PROGRAM BOOK

Better Life Ergonomics for Future Humans

IEA 2024

22nd Triennial Congress of
the International Ergonomics Association
Jointly with INCOSE HSI2024

August 25-29, 2024

International Convention Center Jeju (ICC JEJU)
Republic of Korea

IEA 2024 22nd Triennial Congress of the International Ergonomics Association
Jointly with INCOSE HSI2024

LG전자

공간.미래.연결하다
SMART.LIFE.SOLUTION.

모빌리티 솔루션 | webOS 솔루션 | AI홈 솔루션 | 냉난방공조 솔루션

홈을 넘어 모빌리티, 비즈니스 공간까지
고객의 새로운 경험을 위해
LG전자는 최적의 솔루션으로
모든 공간과 미래를 연결합니다

2024

Better Life Ergonomics for Future Humans

IEA 2024

Organized by

IEA International Ergonomics & Human Factors Association

ESK 대한인간공학회

HSI2024 Human Systems Integration Conference
INCOSE

Main Sponsor

LG Electronics

Sponsored by

고용노동부 Ministry of Employment and Labor

농촌진흥청 Rural Development Administration

국가기술표준원 Korean Agency for Technology and Standards

한국관광공사 KOREA TOURISM ORGANIZATION

HARMAN A SAMSUNG COMPANY

ANYFIVE IP-R&D Service Platform

한경국립대학교 Hankyong National University

Tmoney

JEJU CVB 제주컨벤션뷰로

안전보건공단 산업안전보건연구원

서울대학교 SEOUL NATIONAL UNIVERSITY

YD&S (주)와이디앤에스

ISI INSTITUTE FOR INDUSTRIAL SYSTEMS INNOVATION

제주관광공사 JEJU TOURISM ORGANIZATION

津发科技 KINGFAR

SOCAR

Contents

Welcome Message	04
Organizing Committee	08
Floor Plan	30
Program at a Glance	32
Guidelines for Presenters	36
Key Events	38
Keynotes	39
Lectures	
– DAY 1	55
– DAY 2	69
– DAY 3	85
– DAY 4	103
Special Sessions	
– DAY 1	115
– DAY 2	129
– DAY 3	145
– DAY 4	157
INCOSE HSI2024	
– DAY 1	161
– DAY 2	167
– DAY 3	173
Posters	
– Session 1	177
– Session 2	189
– Online	201
Exhibition	207
Author Index	221

General Chair

Jung Sik Lee

Minister of
Employment and Labor,
Republic of Korea

Dear Esteemed Colleagues and Scholars

On behalf of the Ministry of Employment and Labor, South Korea and as the General Chair of the IEA 2024 JEJU, it is my great pleasure to extend a warm welcome to all potential participants of the International Ergonomics Society's Triennial Congress, the IEA 2024 JEJU.

As the host country, South Korea, particularly the beautiful island of Jeju, eagerly awaits your presence from August 25th to 29th at the Jeju International Convention Center. This congress serves as a pivotal platform for global collaboration, knowledge exchange, and innovation in the field of ergonomics and human factors.

I am confident that your participation will contribute significantly to advancing our understanding and application of ergonomics principles, ultimately enhancing workplace safety, productivity, and well-being.

We look forward to embracing you with our unique Korean hospitality and providing a memorable and enriching experience during your stay.

Warm regards,

IEA President

Jose Orlando Gomes

President, IEA

Dear IEA2024 Conference Participants,

On behalf of the IEA, we extend our warmest welcome to the 22nd IEA2024 Triennial Congress, whose theme this year is "Better Life Ergonomics for Future Humans" in this fantastic venue surrounded by splendid nature.

Your presence here in person or through your virtual participation is greatly appreciated. We are excited to have you join the huge worldwide Human Factors and Ergonomics community in what promises to be an inspiring, informative, and fruitful event.

We believe that a friendly atmosphere promotes collaboration and innovation. Our goal is to ensure you feel comfortable and inspired throughout the conference. We have a fantastic program of speakers, workshops, special sessions, discussion panels, engaging technical sessions, and networking opportunities prepared for you.

Thank you for being part of this exciting journey that is an IEA tradition. Together, we will make this conference a memorable and rewarding experience.

Warm regards,

Conference Chair

Sang-ho Kim

Professor, Industrial Engineering Department,
Kumoh National Institute of Technology /
President of Ergonomics Society of Korea (ESK)

Organizing Chair

Myung Hwan Yun

Professor, Department of Industrial Engineering,
Seoul National University / Organizing Committee Chair

Distinguished guests and colleagues,

Welcome to the 22nd Triennial Congress of the International Ergonomics Association, IEA 2024, here at the beautiful Jeju International Convention Center. On behalf of the Ergonomics Society of Korea and the IEA 2024 Organizing Committee, it is our honor to welcome you to South Korea and the beautiful island of Jeju.

We are delighted to host this prestigious event in Korea for the second time since IEA 2003 in Seoul, especially on Jeju, an island celebrated for its natural wonders and rich cultural heritage. Over the next five days, from August 25th to 29th, we will immerse ourselves in groundbreaking research, innovative practices, and engaging discussions that will shape the future of ergonomics.

Our theme this year, "Better Life Ergonomics for Future Humans," embodies our commitment to advancing our field in ways that will positively impact generations to come. In an era of unprecedented technological and societal changes, our role in creating more comfortable, efficient, and sustainable environments for future humans has never been more crucial.

We have prepared an exceptional program featuring world-class speakers, thought-provoking panels, and dynamic symposia sessions to explore this theme in depth. Together, we will delve into how ergonomics can enhance quality of life across various domains, from workplace design and healthcare to AI, emerging technologies, and safety.

We extend our heartfelt gratitude to our dedicated program committee, generous sponsors, and valued partners who have made this congress possible. Special thanks go to our main sponsor, LG Electronics, as well as the IEA Scientific Committee, INCOSE HSI, and ISO SC3 for their invaluable support and collaboration.

On behalf of the ESK and the IEA 2024 Organizing Committee, we sincerely thank all attendees, speakers, sponsors, and volunteers for their contributions. We hope you find your time here in Jeju inspiring and memorable as we work together towards better life ergonomics for future humans.

Thank you, and once again, welcome to IEA 2024!

Warm regards,

Sang Ho Kim, Conference Chair
President, Ergonomics Society of Korea

Myung Hwan Yun, Organizing Chair
Professor, Seoul National University

INCOSE HSI Chair

Guy André Boy

FlexTech Chair Holder and University Professor at Paris Saclay University (CentraleSupélec) and ESTIA Institute of Technology, France

We are pleased to welcome you to the HSI2024 joint conference!

The Third INCOSE International Conference on Human Systems Integration (HSI) is a joint conference with the 22nd Triennial World Congress of the International Ergonomics Association (IEA) and is in cooperation with the Association for Computing Machinery (ACM) Special Interest Group on Computer-Human Interaction (SIGCHI).

HSI emerges from the combination of human-centered design (HCD) and systems engineering (SE) as a highly participative and incremental process. In 2020, INCOSE and IEA (International Ergonomics Association) signed a Memorandum of Understanding that fosters this combination and partnership. We are proud as co-chairs to organize this conference in coordination with the 22nd Triennial World Congress of the IEA.

HSI requires creativity (thought as synthesis and integration) as well as experience, awareness and validation (thought as experimental tests, operations quality analysis, discovery of emergent properties, standards, and so on) for the design and management of socio-technical systems. Modeling and simulation capabilities tremendously improve possibilities of taking into account human factors during the early stages of engineering design and throughout the entire life cycle of systems. Operational personnel can be involved in virtual operations tests using human-in-the-loop simulations to determine appropriate requirements for effective design and development.

The conference intends to inspire and engage researchers, innovators and practitioners in productive discussions of how technologies, organizations, jobs and responsibilities of operations actors, engineering designers, certifiers, trainers, maintainers and many other technology stakeholders can be reshaped to meet near and long-term goals of safe, efficient and comfortable operations.

The question "Integration!" will be the primary focus of HSI2024. We're moving towards a deeper digital society where people need to retain control and management of their affairs in the most tangible way, especially with the rise of artificial intelligence. Therefore, we encourage the dialogue between industrial sectors that includes aeronautics, space, medicine, automotive, oil and gas, defense as well as other fields involved in Industry 4.0 toward Society 5.0.

HSI2024 will bring together manufacturers, operators, government, research centers and academia to focus on improving industrial teams of teams. The current economic environment puts additional pressure on all of us to make industrial operations more efficient and affordable. Conference topics include innovative methods, techniques, tools and technology as well as laboratory research and field investigations, industrial developments and perspectives. Technical papers and panels contain a wide range of topics including design, evaluation, certification and rule-making, training, maintenance, in-service experience and incident/ accident investigation.

Thank you for attending and participating in this insightful joint conference!

General Co-Chair of INCOSE HSI2024, Dr. So Young Kim

General Co-Chair representing IEA, Prof. Dr. Michelle Robertson

Program Co-Chairs, Prof. Dr. Guy André Boy, Dr. Grace Kennedy and Dr. Dimitri Masson,

Organizing Chair

Myung Hwan Yun
Seoul National University

Secretariat Secretary General

Gwanseob Shin
UNIST

Scientific Programming Chair

Woojin Park
Seoul National University

Special Program Chair

Taezoon Park
Soongsil University

Publication Chair

Yongku Kong
Sungkyunkwan University

International Cooperation Chair

Inseok Lee
Hankyong National University

Special Event Chair

Hongin Cheng
Kyungsung University

Information System Chair

Sangwon Lee
Korea University

International Promotion Chair

Yonggu Ji
Yonsei University

Domestic Promotion Chair

Jiyoung Kwahk
Taejae University

Social Media Chair

Gyuhyun Kwon
Hanyang University

Creative Chair

Wonsup Lee
Handong University

Exhibition/Advertisement Chair

Jungchul Park
Korea National University of Transportation

Exhibition/Advertisement Chair

Taebeum Ryu
Hanbat National University

Industrial Collaboration Chair

Samsoo Lee
LG Electronics

Media Chair

Jea Hoon Lee
JRB Co., Ltd

Chair IEA/ISO Liaison

Heecheon You
POSTECH

Planning Chair

Kyungdoh Kim
Hongik University

General Chair

Jung Sik Lee	Minister of Employment and Labor

Honorary Chair

Eui Seung Jung	Korea University
Sung Ho Han	POSTECH
Yuchang Kim	Dong-Eui University
Jae-hee Park	Hankyong National University

Conference Chair

Sang-ho Kim	ESK President / Kumoh National Institute of Technology

Organizing Chair

Myung Hwan Yun	Seoul National University

Secretariat Secretary General

Gwanseob Shin	UNIST

Scientific Programming

Woojin Park	Seoul National University (chair)
Jaehyun Park	Incheon National University (co-chair)
Heejin Jeong	Arizona State University (co-chair)
Xiong Shuping	KAIST
Yong Min Kim	Dongduk Women's University

Wonjoon Kim	Dongduk Women's University
Hyunkyung Kim	Kwangwoon University
Donggun Park	Pukyong National University
Donghyun Beck	Incheon National University
Sung Hee Ahn	Namseoul University
Solhee Yoon	Seoul National University of Science and Technology
Seulchan Lee	Hanyang University ERICA
Yushin Lee	National Pukyong University
Yihun Jeong	Keimyung University
Dongwook Hwang	Kwangwoon University
Adeola Bamgboje-Ayodele	University of Sydney
Aleksandar Zunjic	University of Belgrade
Armagan Albayrak	Delft University of Technology
ChangGeun Oh	Hanseo University
Changwon Son	Texas Tech University
Christelle Casse	Université De Lyon
Erminia Attaianese	Università degli Studi di Napoli Federico II
Eunsik Kim	University of Windsor
Eva-Maria Carman	Nottingham University
Flore Barcellini	Conservatoire National des Arts et Métiers
Francisco Duarte	Cidade Universitaria – Centro de Tecnologia
Gregor Harih	University of Maribor
Gyula Szabó	Óbuda University
Hamid Norasi	Mayo Clinic

Hyoung gon "Frank" Ryou	Boeing
Isabella T. Steffan	Arch. Eur-Erg, IEA Fellow
Isabelle Probst	
Jackie Cha	Clemson University
Jangwoon Park	Texas A&M University
Jeong Ho 'Jay' Kim	Oregon State University
Ji-Eun Kim	University of Washington
Jodi Oakman	La Trobe University
John Smallwood	Nelson Mandela University
Joonho Chang	Dongguk University
Jukrin Moon	University of Wisconsin
Julia Han	Hanyang University
Junho Park	Santa Clara University
Kyudong Park	Kwangwoon University
Maria – Elena Boatca	Ergonomics and Workplace Management Society in Romania (ErgoWork)
Marie Laberge	University of Montreal
Marijke Melles	Delft University of Technology
Melissa Baysari	University of Sydney
Myounghoon Jeon	Virginia Tech
Pascal Béguin	Institute for work studies of Lyon Université Lumière Lyon 2
Patricia H. Rosen	Bundesanstalt für Arbeitsschutz und Arbeitsmedizin
Peter Nickel	Institute for Occupational Safety and Health of the German Social Accident Insurance
Putra Alif Ramdhani Yamin	Incheon National University

Raoni Rocha Simoes	Universidade Federal de Ouro Preto
Richard Gardner	Boeing Research & Technology
Sang D. Choi	George Mason University
Sara Albolino	La Sapienza University
Sascha Wischniewski	Federal Institute for Occupational Safety and Health (BAuA)
Saydia Wesley	University of Oxford
Sofia Scataglini	University of Antwerp
Stéphane Safin	Institut Polytechnique de Paris
Tarcisio Abreu Saurin	Universidade Federal do Rio Grande do Sul
Valérie Pueyo	Université De Lyon
Yee Guan Ng	Universiti Putra Malaysia
Younggeun Choi	University of Ulsan
Yue (Sophia) Li	Toronto Rehabilitation Institute
Ziho Kang	University of Oklahoma

Special Program

Taezoon Park	Soongsil University (chair)
Sungho Kim	Air Force Academy
Sung-Hee Kim	Dong-eui University

Publication

Yongku Kong	Sungkyunkwan University (chair)
Daemin Kim	Dongseo University
Jeong Ho 'Jay' Kim	Oregon State University

Heungyoul Kim	Nanzan University
Taebeum Ryu	Hanbat National University
Jungchul Park	Korea National University of Transportation
Jaejin Hwang	Northern Illinois University
Jaehyun Park	Incheon National University
Sangeun Jin	Pusan National University

Interantional Cooperation

Inseok Lee	Hankyong National University (chair)
Seungmin Mo	Osan University
Jaehyun Park	Incheon National University
Youngwoong Song	Daegu Catholic University
Wang Lin	Incheon National University
Kyungsun Lee	Kangwon National University

Special Event

Hongin Cheng	Kyungsung University (chair)
Jaein Lee	Dong-eui University
Youngjae Im	Dong-eui University
Sangeun Jin	Pusan National University
Jeewon Choi	Dong-A University

Information System

Sangwon Lee	Korea University (chair)

Sangwoo Bahn	Kyung Hee University
Ilsun Rhiu	Dongduk Women's University
Gyuhyun Kwon	Hanyang University
Wang Lin	Incheon National University
Dongwook Hwang	Kwangwoon University

International Promotion

Yonggu Ji	Yonsei University (chair)

Domestic Promotion

Jiyoung Kwahk	Taejae University (chair)
Joo-Haeng Lee	Pebblous
Sung Jun Park	Sangmyung University
Saerona Choi	Korea Transportation Safety Authority

Social Media

Gyu Hyun Kwon	Hanyang University (chair)
Jieun Han	Hanyang University

Creative

Wonsup Lee	Handong University (chair)

Exhibition/Advertisement

Jungchul Park	Korea National University of Transportation (co-chairs)
Taebeum Ryu	Hanbat National University (co-chairs)

Industrial Collaboration

Samsoo Lee	LG Electronics (chair)

Media

Jea Hoon Lee	JRB Co., Ltd (chair)

IEA/ISO Liaison

Heecheon You	POSTECH (chair)

Planning

Kyungdoh Kim	Hongik University (chair)
Sung-Hee Kim	Dong-eui University
Kyungsun Lee	Kangwon National University
Yong Min Kim	Dongduk Women's University
Donggun Park	Pukyong National University
Yushin Lee	National Pukyong University
Solhee Yoon	Seoul National University of Science and Technology
Seulchan Lee	Hanyang University ERICA

Staff assistant to organizing chair

Yein Song	Seoul National University
Jane Lee	Seoul National University
Hee Young Kim	Seoul National University
Jiyeon Shin	Seoul National University
Jinwoo Oh	Virginia Tech

Staff assistant to program chair

Soomin Hyun	Seoul National University

International Advisory Board

Sung Ho Han	POSTECH
Alan Chan	City University of Hong Kong
Andris Freivalds	Pennsylvania State University
Bernard Martin	University of Michigan
Chang S. Nam	Kettering University
Chiuhsiang Joe Lin	National Taiwan University of Science and Technology
Christine Ipsen	Technical University of Denmark
Christopher Reid	Boeing
Dongjoon Kong	Boeing
Eunsuk Suh	Seoul National University
Fadi Fathallah	University of California, Davis Campus
Gary Mirka	Iowa State University
Gretchen A. Macht	University of Rhode Island
Gyuchan Jun	Loughborough University
Ilkyung Moon	Seoul National University
Jacob Chen	Foxconn University
Ji-Eun Kim	UW College of Engineering
Kentaro Kotani	Kansai University
Kyumin Lee	Pusan National University
Lito M. Amit	Keene State College, USA

Maxi Lutz	Institute for Innovation and Technology
Michelle Robertson	University of Southern California
Myounghoon Jeon	Virginia Tech
Patrick Dempsey	Centers for Disease Control and Prevention
Pei-Luen Rau	Tsinghua University
Rauf Iqbal	Indian Institute of Management Mumbai
Ravindra Goonetilleke	Khalifa University
Roger Jiao	Georgia Institute of Technology
Seungki Moon	Nanyang Technological University
Tehpei Lee	Monash University
Wei Zhang	Tsinghua University
Xudong Zhang	Texas A&M University
Fu Guo	Northeastern University, China
Seokcheon Lee	Purdue University
Ruifeng Yu	Tsinghua University
Ian Noy	IEA2021 Chair
Seong Kyu Kang	ICOH President, Gacheon University

Domestic Advisory Board

Eui Seung Jung	Korea University (chair)
Kwangjae Kim	POSTECH
Jae-hee Park	Hankyung National University
Sungil Lee	Sungkyunkwan University
Yonghee Lee	KAERI

Jungwan Koo	Catholic Medical University
Joonhwan Lee	Seoul National University
Sowon Hahn	Seoul National University
Bongwon Suh	Seoul National University
Joongsik Lee	Seoul National University
Juhyun Eune	Seoul National University
Ken Nah	Hongik University
Dongchul Park	Hyundai Motor Company
Heeseok Park	Hongik University
Hyesoon Yang	Samsung Electronics
Julie Yoo	LX Hausys
Dongmug Kang	Pusan National University Yangsan Hospital
Sung Joo Lee	Seoul National University

President

Prof. Dr. José Orlando Gomes

Brazilian Ergonomics Association, Federal University of Rio de Janeiro

Vice-President & Secretary General

Dr. Maggie Graf

Swiss Ergonomics Society

Vice-President & Treasurer

Prof. Dr. Thomas Alexander

Gesellschaft für Arbeitswissenschaft, Bundesanstalt für Arbeitsschutz und Arbeitsmedizin

Immediate Past President, Awards Standing Committee, Chair

Dr. Kathleen L. Mosier

Human Factors and Ergonomics Society, San Francisco State University, Teamscape, LLC

Communications and Public Relations Standing Committee, Chair

Dr. Jonathan Davy

Rhodes University

Development and Promotion Standing Committee, Chair

Elina Parviainen

Nordic Countries Ergonomics Society, Human Process Consultation Ltd., Finnish Ergonomics Society

International Development Standing Committee, Chair

Dr. Anindya K. Ganguli

Indian Society of Ergonomics, Asian Council on Ergonomics and Design, Bureau of Indian Standards

Professional Standards and Education Standing Committee, Chair

Prof. Takeshi Ebara

Japan Human Factors and Ergonomics Society, University of Occupational and Environmental Health (UOEH)

Science, Technology & Practice Standing Committee, Chair

Prof. Nancy Black

Association of Canadian Ergonomists/Association Canadienne d'Ergonomie, Université de Moncton

ICT Director

Prof. Takashi Kawai

Japan Human Factors and Ergonomics Society, Waseda University

IEA2024 Congress Organizing Committee, Chair

Prof. Myung Hwan Yun

Ergonomics Society of Korea, Seoul National University

Future of Work Committee, Chair

Prof. Andrew Thatcher

University of the Witwatersrand

Ad Hoc Committee on Strategic Development and Implementation, Chair

Andrew Todd

Ergonomics Society of South Africa, Rhodes University

IEA Office Administrator

Dr. Aleksandra Gamper

IEA Advisory Group on Standardization, Chair

Shinichi Fukuzumi

RIKEN, Tokyo Metropolitan University

Chair Nancy Black, Canada

Co-chairs Prof. Rosemary Seva (RS), Philippines; Technical Committees / Webinars
Prof. Karen Lange Morales (KLM), Colombia; Publications

Members Technical Committee (TC) chairs (or their representative)

Name (affiliation)	Country	IEA TC Name	TC role
Francisco Moura Duarte (Cidade Universitaria – Center of Technology UFRJ)	Brazil	Activity Theories for Work Analysis and Design	Chair ≤ 2024
Pascal Béguin (Lyon Université Lumière Lyon 2)	France		Chair ≤ 2024
Valérie Pueyo (University of Lyon)	France		Co-chair ≥ 2024
Raoni Rocha (Federal University of Ouro Preto)	Brazil		Co-chair ≥ 2024
Guy André Boy (Paris Saclay University)	France	Aerospace HFE	Chair
Rosemary Seva (De La Salle University)	Philippines	Affective Design	Chair
Takashi Toriizuka (Nihon University)	Japan		Vice-chair
Jodi Oakman (La Trobe University)	Australia	Ageing and Work	Chair
Peter Lundqvist (Swedish University of Agricultural Sciences)	Sweden	Agriculture	Co-chair
Karen Bredenkamp (Magic Leap Inc.)	USA	Anthropometry	Co-chair
Sandra Almeny (Biomechanics Institute of Valencia)	Spain		Co-chair
Y.G. Ng (Putra University)	Malaysia	Building and Construction	Vice-chair
John Smallwood (Nelson Mandela University)	South Africa		Chair

Name (affiliation)	Country	IEA TC Name	TC role
Gregor Harih (University of Maribor)	Slovenia	Digital Human Modeling	Vice-chair
Sofia Scataglini (University of Antwerp)	Belgium		Chair
Lawrence J. Schulz (University of Wisconsin-Milwaukee)	USA	Ergonomics for Children and Educational Environments	Co-chair
Sarbjit Singh (IIT Kanpur and Punjab)	India		Co-chair
Joel Cort (University of Waterloo)	Canada	Ergonomics In Manufacturing	Chair ≥ 01/2023
Kim Munroe (KM Ergonomics, LLC)	USA		Co-chair
Richard Gardner (Boeing Research & Technology)	USA		Chair ≤ 12/2022
Catherine Delgoulet (University of Lyon)	France	Ergonomics Work Analysis and Training (EWAT)	Co-chair
Marta Santos (Federal University of Ouro Preto)	Portugal		Co-chair
Erminia Attaianese (University of Naples Federico II)	Italy	Ergonomics in Design for All	Chair
Isabella Steffan (IEA Fellow)	Italy		Past-chair
Marie Laberge (University of Montreal)	Canada	Gender and Work	Chair
Melissa Baysari (University of Sydney)	Australia	Healthcare Ergonomics	Chair ≤ 06/2024
Kenneth Catchpole (Medical University of South Carolina)	USA	Healthcare Ergonomics	Chair ≥ 07/2024
Gabriel Garcia-Acosta (Acosta National University)	Colombia	Ergonomics and Human Factors for Sustainability	Co-chair
Ivan Bolis (Federal University of Paraiba)	Brazil		Co-chair

Name (affiliation)	Country	IEA TC Name	TC role
Karen Lange Morales (National University of Colombia)	Colombia	Ergonomics and Human Factors for Sustainability	Co-chair
Tiago Sigahi (University of São Paulo)	Brazil		Co-chair
Patricia H. Rosen (Federal Institute for Occupational Safety and Health)	Germany	Human Factorsin Robotics	Alternate
Sascha Wischniewski (Federal Institute for Occupational Safety and Health)	Germany		Chair
Augustine ACQUAH (University of Ghana)	Ghana	Informal Work	Co-chair Ghana
Clive D'Souza (University of Pittsburgh)	USA		Acting Chair
Muhammad MUZAMMIL (Aligarh Muslim University)	India		Co-chair India
Yadira Gordón (Ecuador***)	Ecuador		Co-chair Ecuador
Robin Burgess-Limerick (Burgess-Limerick & Associates)	Australia	Mining	Chair
Erwin Spekle (Arbo Unie)	Netherlands	Musculoskeletal Disorders	Co-chair (comm)
Steven Fischer (University of Waterloo)	Canada		Chair
Christine Ipsen (Technical University of Denmark)	Denmark	Organizational Design and Management (ODAM)	Co-chair
Michelle Robertson (Northeastern University)	USA		Chair
Alessandro Jatobá (Osvaldo Cruz Foundation)	Brazil	Resilience Engineering	Co-chair
Paulo Victor Carvalho (Federal University of Rio de Janeiro)	Brazil		Co-chair
Riccardo Patriarca (Sapienza University of Rome)	Italy		Co-chair

Name (affiliation)	Country	IEA TC Name	TC role
Robyn Clay-Williams (Macquarie University)	Australia	Resilience Engineering	Co-chair
Tarcisio Abreu Saurin (Federal University of Rio Grande do Sul)	Brazil		Chair
Tor Olav Grotan (Norwegian University of Science and Technology)	Norway		Co-chair
Gyula Szabó (Óbuda University)	Hungary	Safety and Health	Chair
Maria Elena Boatca (Ergonomics and Workplace Management Society in Romania (ErgoWork))	Romania		Secretary
Takeshi Yamaguchi (Tohoku University)	Japan	Slips Trips and Falls	Co-chair
Yue (Sophia) Li (Toronto Rehabilitation Institute)	Canada		Co-chair
Klaus Bengler (Technical University of Munich)	Germany	Transport Ergonomics and Human Factors (TEHF)	Vice-chair
Peter Burns (Transport Canada)	Canada		Chair
Marino Menozzi (ETH Zurich)	Switzer-land	Visual Ergonomics	Chair
Flore Barcellini (National Conservatory of Arts and Crafts)	France	Work with Computing Systems	Chair
Stephane Safin (Polytechnic Institute of Paris)	France		Co-chair

General Co-Chairs

So Young Kim	NASA JPL, USA, for INCOSE
Michelle Robertson	Northeastern University

Program Co-Chairs

Guy André Boy	Paris Saclay University (CentraleSupélec) & ESTIA
Grace Kennedy	University of Wollongong

Research Paper Co-Chairs

Dimitri Masson	ESTIA Institute of Technology
Yotam Sahar	Rafael Advanced Defense Systems

Industrial Paper Co-Chairs

Alexander Rudolph	EUMETSAT
Ricardo Reis	Embraer

Early-Stage Paper Co-Chairs

Nirit Gavish	Braude Academic College
Yang Sun	CentraleSupélec & SNCF

Workshop Co-Chairs

Avigdor Zonnenshain	Technion
Jackelynne Silva-Martinez	NASA

Panel Co-Chairs

Wen-Chin Li	Cranfield University
Gopal Jani	P.P. Savani University

Poster Co-Chairs

Paul Lambertson	Boeing
Ami Harel	e2eS

Student Affairs Co-Chairs

Alexandre Disdier	CentraleSupélec & CS Group
Denny Yu	Purdue University

Systems Engineering Journal Liaison

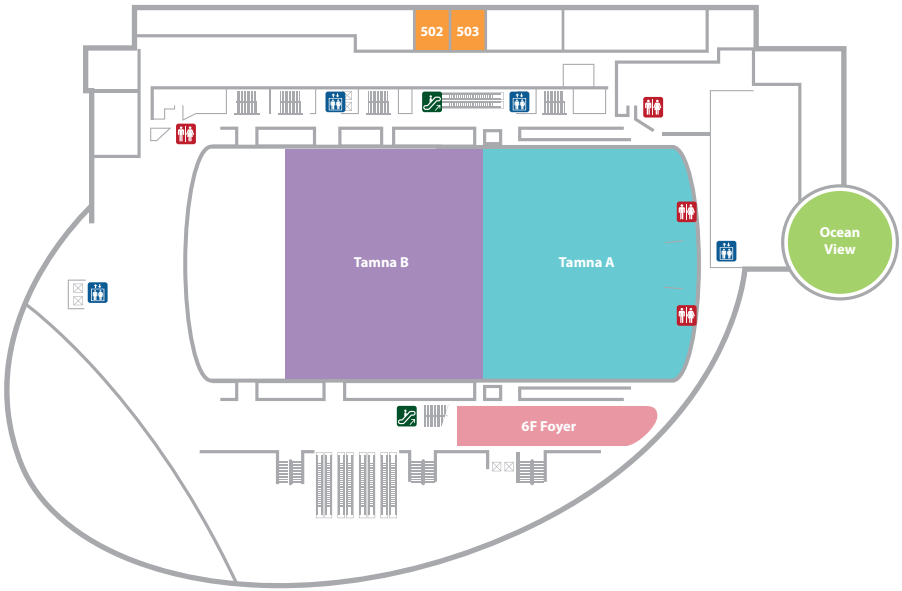
Rob Vingerhoeds	ISAE-SUPAERO

ACM-SIGCHI Liaison

Philippe Palanque	IRIT

Kahina Amokrane-Ferka	SystemX
Shamsnaz Virani Bhada	Worcester Polytechnic Institute
Tibor Balint	NASA JPL
Thierry Bellet	Université Gustave Eiffel
Jawahar Bhalla	JB Engineering Systems
Stélian Camara Dit Pinto	Long Island University
Nancy Cooke	Arizona State University
Bernardo A. Delicado	Indra Sistemas
Ondrej Doule	Dassault Systèmes
Philippe Doyon-Poulin	École Polytechnique, Montréal
Frank Flemisch	FKIE & RWTH Aachen University
Nirit Gavish	Braude Academic College
José Orlando Gomes	Universidade Federal do Rio de Janero
Gudela Grote	ETH Zürich
Susan Hallbeck	Mayo Clinic
Holly Handley	Old Dominion University
Ami Harel	e2eS
Gopal Jani	P.P. Savani University
Marija Jankovic	CentraleSupélec
Marijke Jorritsma	NASA JPL
Vivek Kant	Indian Institute of Technology Kanpur
Grace Kennedy	University of Wollongong
So Young Kim	NASA JPL
Paul Lambertson	Boeing
Chang Hee Lee	KAIST
Jérémy Legardeur	ESTIA
Wen-Chin Li	Cranfield University
Carrie Lin	Boeing

Dimitri Masson	ESTIA Institute of Technology
Michael E. Miller	Air Force Institute of Technology
Peter Moertl	Virtual Vehicle Research Center
Harald Molina-Tillmann	ITV System Design
Philippe Palanque	IRIT
Elina Parviainen	IEA, HumanProcess Ltd
Romain Pinquié	Grenoble Alpes Uni., CNRS
Edwige Quillerou	INRS
Kine Reegård	IFE, Institute for Energy Technology
Arto Reiman	University of Oulu
Ricardo Reis	Embraer
Michelle Robertson	Northeastern University
Alexander Rudolph	EUMETSAT
Yotam Sahar	Rafael Advanced Defense Systems
Dirk Schaefer	EUROCONTROL
Judi See	Sandia National Laboratories
Jackelynne Silva-Martinez	NASA
Anabela Simoes	Universidade Lusófona
Caitlyn Singam	University of Maryland
Yang Sun	Paris Saclay University (CentraleSupélec) & SNCF
Jean-Jacques Speyer	VUB -ULB - KUL Universities
Wei Tan	Civil Aviation University of China
Rob Vingerhoeds	ISAE-SUPAERO
Patrick Waterson	Loughborough University
Abigail Woolridge	University of Illinois
Andrew Wright	Tactix.Sener
Jingyu Zhang	Chinese Academy of Sciences
Avigdor Zonnenshain	Technion

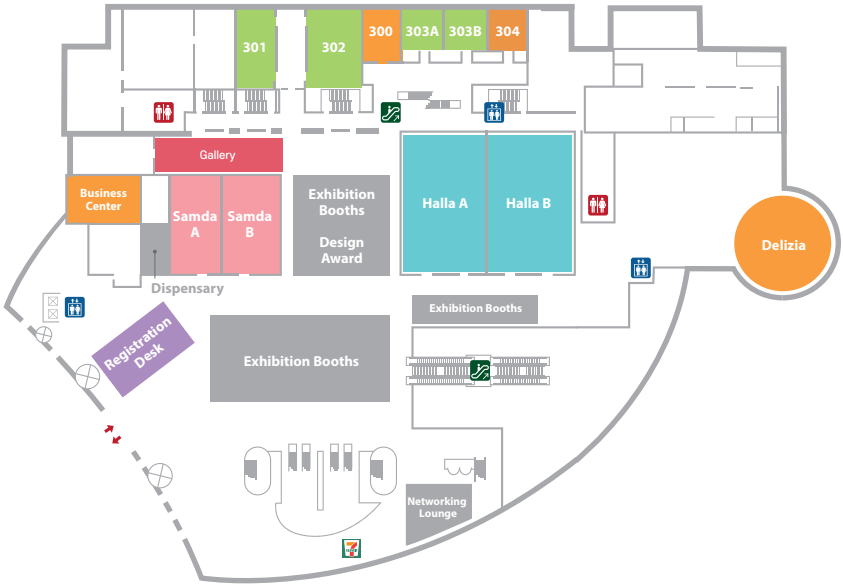


6F 5F

- **Tamna A** Opening Ceremony, Keynote
- **Tamna B** IEA Congress Dinner, 8/27 Luncheon (Bibimbap)
- **Ocean View** IEA Welcome Reception, INCOSE HSI Reception
- **Foyer** 8/26 Poster Session 1, 8/28 Poster Session 2
- **502, 503** Prayers Room

4F

- **401A, 401B** Session
- **402A, 402B** Session (Offline)
- **Foyer** Poster Session (INCOSE)



3F

- **Halla A, B** — Session, Keynotes, Closing Ceremony
- **Samda A, B** — Session
- **301, 302, 303A, 303B** — Session
- **Gallery** — Hankyong Univ. UD Exhibition
- **300** — VIP Room / Meeting Room
- **304** — Speakers Room
- **Delizia** — 8/26, 8/28 Lucheon
- **Business Center** — Secretariat
- **Lobby** — Exhibition Booths, 24th Ergonomics Design Award, Registration, Souvenirs, Networking Lounge, Convenient Store

2F

- **202A, 202B** — Session

Date	Room	6F	5F		4F			
	Time	Foyer	Tamna	Ocean View	401A	401B	402A (Offline)	402B (Offline)
August 25 (Sun)	15:00 -	Registration						
	17:00 - 19:00			IEA Welcome Reception				
August 26 (Mon)	08:00 -	Registration						
	08:30 - 10:00				Workshop 1	Panel Disscussion 2	Panel Disscussion 1	CES - ED1
	10:00 - 10:15	Break						
	10:15 - 11:45						SYM 2	CES - ED2
	11:45 - 13:15	Luncheon						
	13:15 - 14:45				Workshop 3	Panel Disscussion 7	SYM 7	CES - ED3
	14:45 - 15:00	Break						
	15:00 - 16:30		Opening Ceremony & Keynote 1					
	16:30 - 16:45	Break						
	16:45 - 18:15	Poster 1			SYM 9	SYM 18	SYM 10	CES - ED4
	18:30 - 19:30			INCOSE HSI Reception 18:15 - 20:00				
August 27 (Tue)	08:00 -	Registration						
	08:30 - 10:00				INCOSE 1 & 2	Children/ Training/ Education 1	SYM 11	SYM 12
	10:00 - 10:15	Break						
	10:15 - 11:45				INCOSE 3	Children/ Training/ Education 2	SYM 16	SYM 17
	11:45 - 13:15	Luncheon			INCOSE HSI Poster Session			
	13:15 - 14:45				INCOSE 5A	INCOSE 5B	SYM 19	CES - Design
	14:45 - 15:00	Break						
	15:00 - 16:30				CES - AI	Children/ Training/ Education 3	Panel Disscussion 13	CES - Physical
	16:30 - 16:45	Break						
	16:45 - 18:15				INCOSE 7A	INCOSE 7B	Macroer gonomics 2	CES - Biophysical
	18:15 - 20:15		IEA Congress Dinner					

3F								2F	
Halla A	Halla B	Samda A	Samda B	301	302	303A	303B	202A	202B
Registration									
Registration									
Transport 1	UI/UX 1	A.I. 1	VR/AR/ Metaverse 1	SYM 1	Panel Disscussion 3	Workshop 2		Visual 1	Potpourri 1
Break									
Transport 2	SYM 4	A.I. 2	VR/AR/ Metaverse 2	UI/UX 2	Panel Disscussion 5	SYM 3	Panel Disscussion 6	Visual 2	SYM 5
Luncheon									
Transport 3	UI/UX 3	A.I. 3	VR/AR/ Metaverse 3		Product 1	Panel Disscussion 9	SYM 6	DHM 1	Workshop 4
Break									
Break									
Transport 4	UI/UX 4	A.I. 4	VR/AR/ Metaverse 4	SYM 8	Product 2	IJIE Board Meeting	Panel Disscussion 10	DHM 2	Aging 1
Other TC Meeting 1						Agriculture TC meeting	Gender & Work TC meeting	Certification Board meeting	DHM TC meeting
Registration				MSD TC meeting					
Keynote 2		A.I. 5	VR/AR/ Metaverse 5	SYM 13	Product 3	SYM 14	Anthropometry 1	DHM 3	Aging 2
Break									
Musculoskeletal 1	UI/UX 5	EC 0- Student Award	Safety and Health 1	Informal 1	Product 4	Panel Disscussion 4	Panel Disscussion 11	IEA/ ISO 1	ESK-JES Joint Symposium
Luncheon									
Musculoskeletal 2	HFE-x	EC 2	Safety and Health 2	SYM 15	Sustainable Development 1	Workshop 5	Panel Disscussion 12	IEA/ ISO 2	CES - Aging
Break									
Keynote 3	IEA-HSI Joint Keynote and Panel Discussion (INCOSE 6)	EC 3	VR/AR/ Metaverse 6	Macroergonomics 1	Sustainable Development 2		Robotics 1	Potpourri 2	SYM 20
Break									
Musculoskeletal 3	UI/UX 6	EC 4	Safety and Health 3	CES - Smart Device	Transport 5	ATWAD 1	Panel Disscussion 14	IEA/ ISO 3	Healthcare 1

Date	Room	6F	5F		4F			
	Time	Foyer	Tamna	Ocean View	401A	401B	402A (Offline)	402B (Offline)
August 28 (Wed)	08:00 -	Registration						
	08:30 - 10:00				INCOSE 8 Keynote	Space 1		Panel Disscussion 15
	10:00 - 10:15	Break						
	10:15 - 11:45				INCOSE 9A	INCOSE 9B	UI/UX 7	CES - HMI
	11:45 - 13:15	Luncheon			INCOSE HSI Poster Session			
	13:15 - 14:45				INCOSE 11A	INCOSE 11B	Potpourri 4	CES - Interact
	14:45 - 15:00	Break						
	15:00 - 16:30				INCOSE 12	SYM 26	Workshop 6	CES - Transport
	16:30 - 16:45	Break						
	16:45 - 18:15	Poster 2			INCOSE 13A	INCOSE 13B	CES - Health	SYM 25
	18:30 - 19:30				ODAM TC meeting	EWAT TC meeting		
August 29 (Thu)	08:00 -	Registration						
	08:30 - 10:00				INCOSE 14 Keynote	WWCS 1		
	10:00 - 10:15	Break						
	10:15 - 11:45				INCOSE 15A	INCOSE 15B		
	11:45 - 13:15	Luncheon			INCOSE HSI Poster Session			
	13:15 - 14:45				INCOSE 17A	INCOSE 17B		
	14:45 - 15:00	Break						
	15:00 - 16:30				INCOSE 18	Panel Disscussion 17		
	16:30 - 16:45	Break						
	16:45 - 18:15							

3F								2F	
Halla A	Halla B	Samda A	Samda B	301	302	303A	303B	202A	202B
Registration									
Keynote 4		Musculoskeletal 4	Safety and Health 4	Potpourri 3	Slips 1	Macroergonomics 3	Robotics 2	ATWAD 2	Resilience 1
Break									
Musculoskeletal 5	CES - COG1	DOCQ	Safety and Health 5	SYM 21	Slips 2	SYM 22	Children/ Training/ Education 4	ATWAD 3	Resilience 2
Luncheon									
Musculoskeletal 6	UI/UX 8	EC 5	Safety and Health 6	Kansei 1	Slips 3	SYM 23	CES - COG2	ATWAD 4	Resilience 3
Break									
Keynote 5	Keynote 6	EC 1	Safety and Health 7	Kansei 2	SYM 24	Workshop 8	Panel Disscussion 16	ATWAD 5	Workshop 7
Break									
Musculoskeletal 7	UI/UX 9	Agriculture 1	Healthcare 2	Kansei 3	Gender 1	SYM 27	CES - COMM&SM	ATWAD 6	
Other TC Meeting 2			Safety and Health TC Meeting		Building & Construction TC meeting	Human Factors in Robotics TC meeting	Aging and Work TC Meeting	Anthropometry TC Meeting	IEA Informal Work TC meeting

Registration						
Keynote 7		Manufacturing 1	Healthcare 3	Design 1	Gender 2	Aerospace 1
Break						
Musculoskeletal 8	UI/UX 10	Manufacturing 2	Healthcare 4	Design 2	SYM 29	SYM 30
Luncheon						
		Manufacturing 3	Healthcare 5	Design 3	Building and Construction 1	SYM 31
Break						
		Potpourri 5	Healthcare 6	Design 4	Building and Construction 2	SYM 28
Break						
Closing Ceremony						

Code Explanation

Session Name (Code) – Attendance – Order

Code	On/In-person
O	Online
S	In-person

Code	Session Name	Code	Session Name	Code	Session Name
AI 1	A.I. 1	Informal 1	Informal 1	Space 1	Space 1
AI 2	A.I. 2	Kansei 1	Kansei 1	Sustain 1	Sustainable Development 1
AI 3	A.I. 3	Kansei 2	Kansei 2	Sustain 2	Sustainable Development 2
AI 4	A.I. 4	Kansei 3	Kansei 3	Trans 1	Transport 1
AI 5	A.I. 5	Macro 1	Macroergonomics 1	Trans 2	Transport 2
Aero 1	Aerospace 1	Macro 2	Macroergonomics 2	Trans 3	Transport 3
Agi 1	Aging 1	Macro 3	Macroergonomics 3	Trans 4	Transport 4
Agi 2	Aging 2	Manu 1	Manufacturing 1	Trans 5	Transport 5
Agr 1	Agriculture 1	Manu 2	Manufacturing 2	UI/UX 1	UI/UX 1
Ant 1	Anthropometry 1	Manu 3	Manufacturing 3	UI/UX 2	UI/UX 2
ATWAD 1	ATWAD 1	Mus 1	Musculoskeletal 1	UI/UX 3	UI/UX 3
ATWAD 2	ATWAD 2	Mus 2	Musculoskeletal 2	UI/UX 4	UI/UX 4
ATWAD 3	ATWAD 3	Mus 3	Musculoskeletal 3	UI/UX 5	UI/UX 5
ATWAD 4	ATWAD 4	Mus 4	Musculoskeletal 4	UI/UX 6	UI/UX 6
ATWAD 5	ATWAD 5	Mus 5	Musculoskeletal 5	UI/UX 7	UI/UX 7
ATWAD 6	ATWAD 6	Mus 6	Musculoskeletal 6	UI/UX 8	UI/UX 8
Build 1	Building and Construction 1	Mus 7	Musculoskeletal 7	UI/UX 9	UI/UX 9
Build 2	Building and Construction 2	Mus 8	Musculoskeletal 8	UI/UX 10	UI/UX 10
CTE 1	Children/Training/Education 1	Product 1	Product 1	Visual 1	Visual 1
CTE 2	Children/Training/Education 2	Product 2	Product 2	Visual 2	Visual 2
CTE 3	Children/Training/Education 3	Product 3	Product 3	VR 1	VR/AR/Metaverse 1
CTE 4	Children/Training/Education 4	Product 4	Product 4	VR 2	VR/AR/Metaverse 2
Design 1	Design 1	Resil 1	Resilience 1	VR 3	VR/AR/Metaverse 3
Design 2	Design 2	Resil 2	Resilience 2	VR 4	VR/AR/Metaverse 4
Design 3	Design 3	Resil 3	Resilience 3	VR 5	VR/AR/Metaverse 5
Design 4	Design 4	Robot 1	Robotics 1	VR 6	VR/AR/Metaverse 6
DHM 1	DHM 1	Robot 2	Robotics 2	WWCS 1	WWCS 1
DHM 2	DHM 2	Safety 1	Safety and Health 1	Potpourri 1	Potpourri 1
DHM 3	DHM 3	Safety 2	Safety and Health 2	Potpourri 2	Potpourri 2
Gender 1	Gender 1	Safety 3	Safety and Health 3	Potpourri 3	Potpourri 3
Gender 2	Gender 2	Safety 4	Safety and Health 4	Potpourri 4	Potpourri 4
Health 1	Healthcare 1	Safety 5	Safety and Health 5	Potpourri 5	Potpourri 5
Health 2	Healthcare 2	Safety 6	Safety and Health 6		
Health 3	Healthcare 3	Safety 7	Safety and Health 7		
Health 4	Healthcare 4	Slips 1	Slips 1		
Health 5	Healthcare 5	Slips 2	Slips 2		
Health 6	Healthcare 6	Slips 3	Slips 3		

Code	Session Name	Code	Session Name
SYM 1	SYM-Military Anthropometry	Panel 6	Panel Discussion 6
SYM 2	SYM-Affective Design Trends	Panel 7	Panel Discussion 7
SYM 3	SYM-EWAT-Training Trainers	Panel 9	Panel Discussion 9
SYM 4	SYM-UD	Panel 10	Panel Discussion 10
SYM 5	SYM-Climite Change On Women Work	Panel 11	Panel Discussion 11
SYM 6	SYM-Digital Human Modeling	Panel 12	Panel Discussion 12
SYM 7	SYM-Neuroergonomics	Panel 13	Panel Discussion 13
SYM 8	SYM-Physical Workload Measurement	Panel 14	Panel Discussion 14
SYM 9	SYM-Harmful Working Condition	Panel 15	Panel Discussion 15
SYM 10	ALT-UCD-Community Hospital	Panel 16	Panel Discussion 16
SYM 11	SYM-Intellectual Property	Panel 17	Panel Discussion 17
SYM 12	SYM-Intelligent Production	Workshop 1	Workshop 1
SYM 13	SYM-Smart Production And Supply Chain	Workshop 2	Workshop 2
SYM 14	SYM-Aviation Human Factors	Workshop 3	Workshop 3
SYM 15	SYM-Informal Work	Workshop 4	Workshop 4
SYM 16	SYM-MSD in Farmers	Workshop 5	Workshop 5
SYM 17	SYM-Transportation Logistics	Workshop 6	Workshop 6
SYM 18	SYM-Workspace Future	Workshop 7	Workshop 7
SYM 19	SYM-Biomechanics-basedAI	Workshop 8	Workshop 8
SYM 20	SYM-Smart Manufacturing	CES-ED	CES Education
SYM 21	SYM-Psychophysiological Measurement	CES-Aging	CES Aging
SYM 22	SYM-EWAT-Transition Training	CES-Design	CES Design
SYM 23	SYM-Future Healthcare	CES-AI	CES AI and Intelligent Technology
SYM 24	SYM-ATWAD-WWCS	CES-COMM&SM	CES Communication and Social Media
SYM 25	SYM-Medication Safety	CES-COG1	CES Cognitive and Behavioral (1)
SYM 26	SYM-HRI Workplace	CES-COG2	CES Cognitive and Behavioral (2)
SYM 27	SYM-Ergonomics Smart Healthcare	CES-Physical	CES Physical Ergonomics and System Safety
SYM 28	SYM-Inclusive Living	CES-Biophysical	CES Physical, Biological Ergonomics and Mental Models
SYM 29	SYM-Design For All	CES-HMI	CES Human-Machine Interaction
SYM 30	SYM-Gender And Work	CES-Health	CES Disorders, Healthcare & Physiological Data
SYM 31	SYM-Advanced HumanInteraction	CES-Transport	CES Transportation Ergonomics
Panel 1	Panel Discussion 1	CES-Smart Device	CES Smart Devices
Panel 2	Panel Discussion 2	CES-Interact	CES Intelligent Interaction
Panel 3	Panel Discussion 3	JES	ESK-JES Joint Symposium
Panel 4	Panel Discussion 4	HFE-x	HFE-x
Panel 5	Panel Discussion 5	DOCQ	Doctoral Colloquium

1. Oral Presentations

Presenters use the computers provided in the meeting rooms to present their materials. Total presentation duration is 15 minutes.

2. Making the Presentation Onsite Prepare Your Presentation

Length of presentation material should be within your time limit. You are requested to be at the presentation room at least 15 minutes before the session.

3. Presentation

Be within your allocated time. The time for your presentation includes a discussion and a handover to the next speaker.

Sunday, August 25, 2024

17:00 - 19:00	I	Ocean View (5F)	Welcome Reception (IEA)

Monday, August 26, 2024

08:00 -	I	Lobby (3F)	Registration
15:00 - 16:30	I	Tamna A (5F)	Opening Ceremony & Keynote
18:15 - 20:00	I	Ocean View (5F)	Welcome Reception (INCOSE HSI)

Tuesday, August 27, 2024

08:00 -	I	Lobby (3F)	Registration
08:30 - 10:00	I	Halla A (3F)	Keynote
11:15 - 13:15	I	Tamna B (5F)	Luncheon (Bibimbap Experience)
15:00 - 16:30	I	Halla A (3F)	Keynote
18:15 - 20:15	I	Tamna B (5F)	Congress Dinner (IEA & INCOSE HSI), Awards Presentation

Wednesday, August 28, 2024

08:00 -	I	Lobby (3F)	Registration
08:30 - 10:00	I	Halla A (3F)	Keynote
15:00 - 16:30	I	Halla A, B (3F)	Keynote

Thursday, August 29, 2024

08:30 - 10:00	I	Halla A (3F)	Keynote
16:45 - 18:15	I	Halla (3F)	Closing Ceremony

Keynote Speakers

Opening Address

Prof. Dr. José Orlando Gomes

President of International Ergonomics & Human Factors Association (IEA)

Biography

Jose Orlando Gomes is a Professor at the Federal University of Rio de Janeiro (UFRJ) and Deputy Director of International Relations for BRICS at the Polytechnic School. He holds degrees in Production Engineering from the University of São Paulo and UFRJ, with a Ph.D. in partnership with École Nationale Supérieure des Arts et Métiers, Paris. He has served as a visiting researcher at Ohio State University and is a certified ergonomist by Abergo. Currently President of the International Ergonomics Association (2021-2024), he has held key leadership roles in various ergonomics organizations. His research focuses on human factors, ergonomics, and resilience engineering.

Welcoming Address

Jung Sik Lee

Minister of Employment and Labor, Republic of Korea

Biography

Minister Lee is currently serving as the 9th Minister of Employment and Labor, has a robust and diverse background in labor relations and policy development. With a doctoral degree from Soongsil University's Business School, he has held significant leadership positions such as Secretary General and CEO of the Korea Labor and Employment Service (KLES) and General Secretary of the Federation of Korean Trade Unions (FKTU). His career also includes academic contributions as a Visiting Professor at Koreatech University and numerous advisory roles in national labor commissions and government ministries, reflecting his commitment to fostering intergenerational economic development and enhancing labor policies.

Welcome Messages

Prof. Sang-ho Kim

Professor, Industrial Engineering Department, Kumoh National Institute of Technology / President of Ergonomics Society of Korea (ESK)

Biography

Sang-ho Kim is a Professor and Director of the Interaction Design and Ergonomic Assessment Laboratory at Kumoh National Institute of Technology, Gumi, South Korea. He is the President of the Ergonomics Society of Korea and the Conference Chair for IEA 2024 JEJU. Kim received his B.S. from Sungkyunkwan University and his M.S. and PhD from POSTECH. He has led numerous industrial projects on ergonomic enhancement and has been a member of the Occupational Disease Adjudication Committee for the Korean Government for a decade. His research focuses on Human Interaction Design and Evaluation, especially for AI-infused intelligent systems, to improve Quality of Experience (QOE).

Welcome Messages

Prof. Myung Hwan Yun

Professor, Department of Industrial Engineering, Seoul National University / Organizing Committee Chair

Biography

Myung Hwan Yun is a Professor and Director of the Human Interface Systems Laboratory at the Department of Industrial Engineering, Seoul National University, and a past president of the Ergonomics Society of Korea. He is the Organizing Chair for the IEA 2024 JEJU conference. Yun received his B.S. and M.S. from Seoul National University and a PhD from Penn State University. His research interests include Human Interface Design, User Experience Research, Affective Product Development, and Auditory User Interface. He has collaborated with major South Korean companies such as Samsung Electronics, Hyundai Motors, and Hana Financial Group.

Congratulatory Remarks

Dr. Wonhee Lee

President of Hankyong National University

Biography

Dr. Lee, President of Hankyong National University, holds a Ph.D., Master's, and Bachelor's in Public Administration and Economics from Seoul National University. He has been a Professor at Hankyong University since 1996 and has held roles such as non-executive director at the Korea Advancing Schools Foundation, director at the Korea Institute of Public Finance, and President of the Korean Association for Public Administration. Since 2021, he has been a member of the Committee of the Management of Public Institutions.

Congratulatory Remarks

Prof. Seong Kyu Kang

ICOH President, Gacheon University

Biography

Professor Seong-Kyu Kang is an occupational physician and epidemiologist, serving as President of the International Commission on Occupational Health (ICOH) since 2022. He is Dean of the Graduate School of Public Health and Chair of Occupational and Environmental Medicine at Gachon University, Korea. He is a non-executive Vice President of the Korea Industrial Health Association (KIHA) and Editor-in-Chief of Safety and Health at Work. He has held significant roles at the Korea Occupational Safety and Health Agency (KOSHA) and was a fellow at the US CDC. He organized the 2015 ICOH Congress in Seoul.

Keynote 1

Il-pyung Park

President, LG Sciencepark

Title: Innovation for A Truly Better Human Experience

Education

- 1994 Ph.D., Computer Science | Columbia University
- 1987 Master of Science, Computer Science | Columbia University
- 1985 Bachelor of Science, Computer Science | Seoul National University

Professional Experience

- 2021.07 – Present	LG Sciencepark President
- 2017.12 – 2021.11	LG Electronics CTO
	President and CTO
- 2017.01 – 2017.11	LG Electronics Software Center
	Executive Vice President
- 2012 – 2016	Harman International Industries Inc.
	Executive Vice President & Chief Technology Officer
- 2006 – 2012	SAIT Samsung Electronics
	Vice President, Intelligent Computing Laboratory
- 2001 –2006	Panasonic Princeton Laboratory
	Department Head, Platform and Security Technologies Department
- 1999 –2001	Timecruiser Computing Corp.
	Senior Director of Software Development
- 1993 – 1999	New York Institute of Technology, Department of Computer Science Professor

Keynote 2.1

Dr. Bernard Martin

Emeritus Professor in the Department of Industrial and Operation Engineering at the University of Michigan

Title: To Hell and Not Back Yet in the Less Known World of Informal Work

Biography

Bernard Martin is an Emeritus Professor at the University of Michigan's Department of Industrial and Operations Engineering, and a core faculty member in the Center for Ergonomics. He has an engineering degree from Ecole NationaleSupérieure de Physique, and a PhD and Doctorate in Science from Université de Provence. His research focuses on human sensorimotor control, ergonomic design of human-machine interactions, and musculoskeletal disorders. Current projects include job analysis for unregulated work and injury mitigation for e-waste workers.

Keynote 2.2

Jochen Eckardt

Specialist Consultant for Ergonomics at the BGHM
- a Legal Accident Insurance Institution in Germany

Title: Welcome to ISO/TC 159 Ergonomics

Biography

Jochen Eckardt is a specialist consultant for ergonomics at BGHM, a legal accident insurance institution in Germany. He advises on ergonomic working conditions and develops prevention programs. He studied ergonomics at Technical University in Dresden and leads the production design, acoustics, noise, and vibrations area, contributing to DGUV regulations. As chair of European and international ergonomics standardization committees, he is attending the IEA congress in person for the first time after the hybrid format in Vancouver.

Keynote 2.2

Christoph Preusse

Leader of the section on crosslinking information, BGHM

Title: Welcome to ISO/TC 159 Ergonomics

Biography

Christoph Preusse earned his diploma in Mechanical Engineering from TU Clausthal in 1989. He worked at Philips Industrial Automation until 1996, then joined BGHM as a safety inspector and expert in machinery safety. He has been involved with ISO/TC 199 since 2002 and chaired ISO TC 199 and CEN/TC 114 from 2008 to 2018. Currently, he chairs the ISO/TMB Smart Manufacturing Coordination Committee (SMCC) and leads the crosslinking information section at BGHM.

Keynote 3.1

Dr. Jonathan Earthy

Principal Human Factors Specialist at LR Marine&Offshore,
Lloyd's Register

Title: Spreading the Word - Communication between Ergonomics and Related Themes in Standardization

Biography

Dr. Earthy is the technical authority for human factors at LR Marine & Offshore, Lloyd's Register, with over 30 years of experience. He holds a BSc from Durham and a PhD from Aston University. His expertise includes Human Factors Integration and human-centered design, focusing on advanced ICT applications. He has worked on the Norwegian HUMANE study, EU OCEAN project, and OneBridge. He is the founding secretary of the LR Rules Human Factors Panel, technical supervisor of the LRF Alert! initiative, and a Professor II at the University of Western Norway. He chairs ISO TC159/SC4 and IACS SG/Human Element and edits for Interacting with Computers journal.

Keynote 3.2

Dr. Koon Ho Rha

Director of NAVER Healthcare Lab, Korea

Title: Digital Healthcare 2024: Age of Generative AI

Biography

Dr. Koon Ho Rha is the Director of NAVER Healthcare Lab, Korea. Before joining NAVER in 2021, he was a Professor of Urology and led the Robotic and Minimally Invasive Surgery Center at Yonsei University. He earned his M.D. from Yonsei University, trained at the Mayo Clinic and Johns Hopkins, and established East Asia's first robotic surgery program, performing over 3,700 robotic surgeries. He led the Korean surgical robot clinical trial, securing KFDA approval in 2017. Dr. Rha has delivered over 550 lectures, published 350+ scientific papers, and held senior administrative roles at Yonsei University Health System.

Keynote 4.1

Dr. Shengli Niu

Senior Specialist in Occupational Health at the Headquarters of the International Labour Organization (ILO)

Biography

Dr. Shengli Niu is a senior occupational health specialist at the International Labour Organization (ILO) in Geneva, Switzerland. With over 30 years of experience, he has specialized in occupational health, ergonomics, and radiation protection. He previously worked for the Ministry of Health in China and the World Health Organization. Since joining the ILO in 1994, Dr. Niu has led efforts in global occupational safety and health policy, revised the ILO's list of occupational diseases, and published the International Guidance Notes in 2022. He co-created the ILO/IEA Ergonomic Checkpoints and authored numerous articles on occupational health and ergonomics.

Keynote 4.2

Prof. John Zimmerman

Tang Family Professor of Artificial Intelligence and Human-Computer Interaction at Carnegie Mellon University

Title: Closing the AI Innovation Gap

Biography

John Zimmerman is the Tang Family Professor of AI and Human-Computer Interaction at Carnegie Mellon University. He holds an MDes in Interaction Design from Carnegie Mellon and has over 25 years of experience in user experience and service design. His research focuses on human-AI and human-robot interaction. Zimmerman has published over 200 papers and is a member of the ACM CHI Academy. He teaches UX design, service design, and AI product design, and invented the smartphone scrolling method while at Philips.

Keynote 5.1

Dr. Wei Zhang

Professor of the Department of Industrial Engineering,
Tsinghua University

Title: Smartphone-based Driver Status Monitoring for Safer Driving

Biography

Wei Zhang, Professor of Industrial Engineering at Tsinghua University and IEA Fellow, focuses on human factors, ergonomics, and driving safety. He has published over 100 papers and received awards like the National Science and Technology Progress Award (2002). He directs the Master of Engineering Management Education Center at Tsinghua, is secretary-general of the National Graduate Education Steering Committee for Engineering Management, and past president of the Chinese Ergonomics Society. He also co-chairs the IEA Future of Work Taskforce.

Keynote 5.2

Dr. Andy Freivalds

Lucas Professor (Retired), Department of Industrial and
Manufacturing Engineering, The Pennsylvania State University

Title: 50 Years of Physical Ergonomics

Biography

Andris Freivalds was (retired 2023) the Lucas Professor in the Department of Industrial & Manufacturing Engineering at Penn State University (PSU), the focus of which as on global and distance education. He received all his degrees from the University of Michigan, Ann Arbor, Michigan, during which time he was selected as both the department's Outstanding Undergraduate and Outstanding Graduate student awards and received the Rackham School of Graduate Studies Dissertation Award. He has won the PSU College of Engineering Outstanding and Premier Teaching Awards, the Outstanding Research Award, a Fulbright Fellowship, the HFES Paul M. Fitts Education Award and the IISE Technical Innovation and Boeing Excellence in Productivity, Workplace Safety, and Ergonomics Awards and is Fellow in two professional societies. Dr. Freivalds' is the author of the popular ergonomics and work measurement textbook Niebel's Methods, Standards, and Work Design, now in its 13h edition, and a graduate level biomechanics textbook, Biomechanics of the Upper Limbs, Mechanics, Modeling and Musculoskeletal Injuries. He has mentored 48 M.S. and 31 Ph.D (18 of which were Korean) students. Most of the latter are now faculty members at various universities around the world.

Keynote 6.1

Dr. Yoon Kyoo Kang

President of the Korea National Rehabilitation Center

Title: Rehabilitation & Ergonomics, SMART SCIENCES

Biography

Dr. Yoon Kyoo Kang is currently serving as the President of the Korea National Rehabilitation Center. Prior to this role, he held positions as a Professor of Rehabilitation Medicine and Special Professor of Medicine at the Korea University College of Medicine. He completed his medical degree at Korea University College of Medicine in Seoul, Korea. Dr. Kang's research and clinical expertise encompass various aspects of rehabilitation medicine, with a focus on improving patient outcomes and quality of life. He has been actively involved in medical education and research for over three decades, contributing significantly to the advancement of rehabilitation medicine in Korea and beyond.

Keynote 6.2

Dr. Xudong Zhang

Professor of Industrial & Systems Engineering, Mechanical Engineering, and Biomedical Engineering at Texas A&M University

Title: Advancing Musculoskeletal Models for Digital-Age Human and Health Engineering

Biography

Dr. Xudong Zhang is a Professor of Engineering at Texas A&M University, directing the Musculoskeletal Biomechanics Lab. He previously taught at the University of Illinois and the University of Pittsburgh. He holds a B.S. from Tsinghua University and an M.S. and Ph.D. from the University of Michigan. His research focuses on musculoskeletal modeling. Dr. Zhang is a Fellow of the Human Factors & Ergonomics Society, Associate Editor of the Human Factors journal, and a keynote speaker at major conferences.

Keynote 7.1

Dr. Gary Allen Mirka

University Professor and John Ryder Professor in the Department of Industrial and Manufacturing Systems Engineering at Iowa State University

Title: Stochastic Modelling of Biomechanical Systems

Biography

Dr. Gary Allen Mirka, a University Professor and John Ryder Professor at Iowa State University's Department of Industrial and Manufacturing Systems Engineering, has also served as Associate Dean and department chair. He earned his Ph.D. from The Ohio State University in 1992. A fellow of The Ergonomics Society and recipient of the 1993 Volvo Award, his research focuses on spine biomechanics, electromyography, and ergonomics interventions for preventing musculoskeletal disorders, sponsored by NIOSH.

Keynote 7.2

Dr. Jacob Chen

Former Hon Hai (Foxconn) Board Member and Chairman of Smart Technologies

Biography

Dr. Jacob Chen, a former Hon Hai (Foxconn) board member and Chairman of Smart Technologies, holds a Ph.D. in Industrial Engineering from the University of Oklahoma. He advanced from a faculty position to Department Chair at the University of Houston, then became Dean at UT Pan American. Joining Hon Hai/Foxconn in 2001, he served as Vice Chairman and Founding President of Foxconn University, managing key accounts and overseeing HR and Corporate Safety. Dr. Chen has published over 120 articles, mentored numerous students, and served as President of the International Society of Industrial Ergonomics and Safety. His initiatives at Foxconn University have enabled over 45,000 employees to earn degrees.

Keynote Speakers (INCOSE)

Keynote 6

Prof. Guy André Boy

INCOSE Fellow, Chair of the HSI Working Group of INCOSE, Chair of the Aerospace Technical Committee of IEA

Title: The future of HSI: Socio-ergonomics and human-AI integration

Biography

Prof. Guy André Boy, Ph.D., is an INCOSE Fellow, Chair of the HSI Working Group of INCOSE, and Chair of the Aerospace Technical Committee of IEA. He is FlexTech Chair Holder and University Professor at Paris Saclay University (CentraleSupélec) and ESTIA Institute of Technology, France. He was IPA Chief Scientist for Human-Centered Design (HCD) at NASA Kennedy Space Center, Dean of the HCD Institute at the Florida Institute of Technology, USA, President and Chief Scientist of the European Institute for Cognitive Science and Engineering, and Group Lead in the Artificial Intelligence Research Branch at NASA Ames Research Center. He is Fellow of the Air and Space Academy and the International Academy of Astronautics.

Keynote 8

Dr. Cynthia H. Null

Technical Fellow, Human Factors for the NASA Engineering and Safety Center (NESC)

Title: Taking Measure of Human Systems Integration: A View from NASA

Biography

Dr. Cynthia H. Null is the Technical Fellow for Human Factors at NASA's Engineering and Safety Center, focusing on safety and mission success. She previously managed NASA research programs and taught at the College of William and Mary for 18 years. She was the managing editor of Psychometrika for 20 years. Dr. Null holds a BA in Mathematics from Albion College and an MA and Ph.D. in Quantitative Psychology from Michigan State University.

Keynote 14

Ayse P. Gurses

Director, Center for Health Care Human Factors, Armstrong Institute,
Johns Hopkins Medicine Professor, Schools of Medicine,
Bloomberg Public Health, Whiting Engineering, Johns Hopkins University

Title: Human Systems Integration Across the Health Care Continuum: Examples, Opportunities, and the Future

Biography

Dr. Ayse P. Gurses is the Director of the Center for Health Care Human Factors at Johns Hopkins and a Professor at Johns Hopkins University. She integrates human factors and systems engineering into healthcare to improve safety and quality. Dr. Gurses has over 100 peer-reviewed publications and $20M in research grants. She led initiatives like Ebola training and infection control through the CDC's Project Firstline. An award recipient, including the Liberty Mutual Award, she also serves on the Executive Committee of the Human Factors and Ergonomics Society.

Better Life
Ergonomics
for Future
Humans

IEA 2024

Lectures

DAY 1
August 26
(Mon)

- Aging 1
- A.I. 1, 2, 3, 4
- DHM 1, 2
- Product 1, 2
- Transport 1, 2, 3, 4
- UI/UX 1, 2, 3, 4
- Visual 1, 2
- VR/AR/Metaverse 1, 2, 3, 4
- Potpourri 1

A.I. 1

August 26 (Mon) | 08:30-10:00 | 3F Samda A

AI 1-O-1 OUTLINING THE CONCEPT OF TRANSPARENCY FOR ARTIFICIAL INTELLIGENCE (AI) SYSTEMS: A HUMAN-COMPUTER INTERACTION (HCI) PERSPECTIVE
Isabela Motta, Claudia Mont'Alvão, Manuela Quaresma

AI 1-O-2 PERSPECTIVES FOR INTEGRATING HCI AND SERVICE DESIGN TO DEVELOP SERVICE INTERFACES IN THE ERA OF ARTIFICIAL INTELLIGENCE
Isabela Motta, Manuela Quaresma

AI 1-S-3 Analyzing the AI kiosk user experience to improve accessibility for the elderly
Gayoung Kim, Hyun K. Kim

AI 1-S-4 USING WORK DOMAIN ANALYSIS TO DESIGN A FUTURE ADVANCED AI-BASED ROAD TRANSPORT MANAGER
Gemma Read, Scott McLean, Tony Carden, Jason Thompson, Brandon King, Chris Baber, Neville Stanton, Paul Salmon

AI 1-S-5 Research on image processing-based control system to increase car interior space efficiency
Hui-Jun Kim, Sung-Hee Kim

Potpourri 1

August 26 (Mon) | 08:30-10:00 | 2F 202B

Potpourri 1-O-1 In uncertainty we trust: the entrepreneurial activity in the favela of Rocinha, an experience of design and control
Aline Brufato, Roberto Bartholo

Potpourri 1-O-2 An Approach to the Innovation of Payment Tools through Eliminating Cognitive Friction
Ezekiel Bernardo, Jeremy Gabriel Uy, Jarvy Larz San Juan, Johnica Chua, Diane Mari Dee, Coby Jan Angelo Yu, Hazelle Erika Lee

Potpourri 1-O-3 Cognitive Workload measurement and its impact on Network Operation Centre (NOC) Operators: Methodological perspective.
Wasim Akram, Sananda Das, Rauf Iqbal

Potpourri 1-S-4 Performance implications for control room operators in advanced nuclear reactors: A case study of a multi-unit operational concept
Kine Reegård, Daniel Odéen, Robert McDonald, Prosper Ameh Kwei-Narh, Asgeir Drøivoldsmo

Potpourri 1-S-5 THE IMPACT OF DYNAMIC INDOOR TEMPERATURES ON COGNITIVE PERFORMANCE AND MENTAL LOAD
Amelie Reitmayer, Kelly R Johnstone, Margaret M Cook, Cassandra Madigan

Potpourri 1-S-6 FROM THE HUMAN FACTOR TO THE ACTOR IN DESIGN: Questioning digitalization within Industry 4.0 through the analysis of uses and project management.
Mestanza Tuesta Mirtha, Coutarel Fabien, Geraldine Rix Lievre, Camille Echeverria Pereira

Transport 1

August 26 (Mon) | 08:30-10:00 | 3F Halla A

Trans 1-O-1 MEASURING COMFORT IN URBAN MOBILITY: OBJECTIVE AND SUBJECTIVE METRICS
Eliza Kronenberger, Manuela Quaresma

Trans 1-S-2 Exploring the Impacts of NDRT Interface Modality Design on Occupant's Situation Awareness and Perceived Sleepiness During Automated Driving
Sungmin Kim, Woojin Park

Trans 1-S-3 Driving Performance according to the types of Electronic Gear Shifters
Seokjae Kim, Taezoon Park, Doyoung Lee, Haeun Lim

Trans 1-S-4 Deriving Visual Information Priorities and HMI Design for Level 4 Autonomous Shuttles
Seung Hyeon Kang, Da Young Ju

Trans 1-S-5 Enhancing Vehicle-to-Pedestrian Communication: Optimal eHMI Display Strategies for Autonomous Vehicle Safety
Jihan Lee, Da Young Ju

Trans 1-S-6 Subjective Mental workload association with the prevalence of Musculoskeletal Disorders in Three-wheeler drivers
Mukesh Kumar Kamti, Rauf Iqbal and Wasim Akram

UI/UX 1

August 26 (Mon) | 08:30-10:00 | 3F Halla B

UI/UX 1-O-1 APPLYING THE BACKCASTING METHOD TO ENVISION URBAN MOBILITY CENTERED ON THE CITIZEN EXPERIENCE
Manuela Quaresma, Júlia Buttel, Gabriela Freitas, Roberta Cordeiro, Thaís Viana

UI/UX 1-O-2 Urban Mobility Platforms and Trends Towards a MaaS Scenario
Mariana Menezes O. Sousa, Manuela Quaresma

UI/UX 1-S-3 USING HUMAN-COMPUTER INTERFACE DESIGN PRINCIPLES TO DEVELOP A CHATBOT FOR USABILITY TESTING IN THE LONG-TERM CARE FIELD
Kuo-Wei Su, Min-Rong Xu, Yu-Cheng Lin, Yen-Chen Chien

UI/UX 1-S-4 Optimizing E-Gov Application for Users in Manila City: A Study on Enhancing Engagement, Accessibility, and User Experience through Usability Testing and Web Scraping
Joshua Ordinario, Hanna Vidal, Vanessa Santillan, Rapeh Jahaziel Galao, and Janina Elyse Reyes

UI/UX 1-S-5 Implementing Affective Considerations for Design Pattern Selection for Website Homepages
Araco Carissa, Maria Mikaela Arriola, Reinabelle Angelique Gonzales, Antonio Lorenzo Sahagun, Ronaldo Polancos

UI/UX 1-S-6 Comparative Usability Study of Peripheral Intravenous Catheters
Lorenz Müller, Niels Hinricher, Chris Schröer, Hendrik Ludewig, Claus Backhaus, Elisabeth Ibenthal

Visual 1

August 26 (Mon) | 08:30-10:00 | 2F 202A

Visual 1-S-1 Visuo-cognitive cartography, a new tool for the analysis of eye-tracking data
Denis I Chavez

Visual 1-S-2 RELATIONSHIP BETWEEN EYESTRAIN AND MUSCULOSKELETAL STRAIN
Hillevi Hemphala, Camilla Zetterberg, Marina Heiden, Per Nylén

Visual 1-S-3 Supervision of Automated Production Systems: The Effects of Task Demands, Time on Task, and Task Reward on Visual Attention Allocation in a Process Monitoring Task
Sebastian Pütz, Alexander Mertens, Verena Nitsch

Visual 1-S-4 DYNAMIC SIGNS: Statistical extraction of ergonomic requirements of moving signs from interviews and questionnaires for various users
Reiko Sakata, Saki Matsui, Atsushi Shimada, Naoki Furuhata, Nana Ito, Ken Sagawa, Hiroshi Watanabe, Hiroyasu Ujike

VR/AR/Metaverse 1

August 26 (Mon) | 08:30-10:00 | 3F Samda B

VR 1-O-1 Examining the Influence of Metacognitive Monitoring Feedback in an Augmented Reality Learning Environment
Jung Hyup Kim

VR 1-O-2 A Framework Proposal for Augmented Reality Considering Human Errors in Sequential Tasks
Moacyr Cardoso-júnior, Henrique Costa Marques

VR 1-O-3 -
-

VR 1-S-4 Impact of Augmented Reality Visualization Technique on Brain Activation Patterns and Task Performance in Assembly Tasks
Jungmin Ryu, Philjun Moon, Kitae Hwang, Yoonjin Lee, Qinghua Piao, Sojeong Yoon, Jin-Hyuck Park, Woojin Park

VR 1-S-5 Investigation of use errors of augmented reality software for preoperative planning
Simon König, Claus Backhaus

A.I. 2

August 26 (Mon) | 10:15-11:45 | 3F Samda A

AI 2-S-1 How to Measure the Perception of Being Trusted by AI in Human-Agent Team: A Questionnaire Development
Yubin Xie, Ronggang Zhou, Alan Chan

AI 2-S-2 Development of an Intelligent information and Enforcement System for right turn Traffic efficiency
Yeji Sung, Juneyoung Park, Saerona Choi

AI 2-S-3 TinyML-based Device Development for Personal Mobility to Detect and Notify Hazardous Situation using Sound Recognition
Yun Seong Kim, Kyung Min Seo, Jun Beom Lee, In Jae Na, Do Yeon Koo, Jun Ho Kim

AI 2-S-4 Predicting and Evaluating Future Human States Conditions in XR
Yoshihiro Banchi, Yusuke Ohira, Takashi Kawai

AI 2-S-5 Evaluating the Application of ChatGPT in Outpatient Triage Guidance: A Comparative Study
Dou Liu, Ying Han, Xiandi Wang, Xiaomei Tan, Di Liu, Guangwu Qian, Kang Li, Dan Pu, Rong Yin

AI 2-S-6 Assessing the Impact of AI-assisted Ideation on Product Concept Development: A Comparative Study
Jaramier C. Joibi, Juhyun Eune, Myung Hwan Yun

Transport 2

August 26 (Mon) | 10:15-11:45 | 3F Halla A

Trans 2-O-1 A Risk-based Approach to the Design of a new Acoustic Vehicle Alerting System (AVAS) Sound for Zero Emission Buses using Goal Structuring Notation (GSN)
Christina Kirsch

Trans 2-O-2 Voices from the road: Exploring the impacts of automation on work and employment
Liliana Cunha, Sarah Gouveia, Vladimiro Lourenço, Sérgio Pedro Duarte, António Lobo

Trans 2-S-3 Utilizing commercial wearables to assess the acute mental and physical conditions of occupational drivers within the framework of the MILESTONE project
Federica Masci, Nina Van Oost, Jenna Van Win, An-Marie Schyvens, Brent Peters, Hélène Dirix, Veerle Ross, An Neven, Geert Wets, Johan Verbraecken, Jean-Marie Aerts

Trans 2-S-4 WHICH EYE-TRACKING MEASURE IS BETTER FOR EXAMINING PEDESTRIAN CROSSING BEHAVIOR?
Putra A. R. Yamin, Jaehyun Park

Trans 2-S-5 Examining a dual-process model for explaining the effectiveness of trust repair in human-automation interaction
Yueying Chu, Zhigang Xu, Peng Liu

UI/UX 2

August 26 (Mon) | 10:15-11:45 | 3F 301

UI/UX 2-S-1 Warning Design to Assist Driver's Awareness, Acceptance, and Trust in MRM and MRC Situations of Autonomous Vehicles
Yea Rim Cho, Woo Seong Joo, Ji Hyeok Han, Da Young Ju

UI/UX 2-S-2 Optimizing Interface Layout Based on Quantification of Interface Usability and Aesthetics
Ting-Chen Chou, Jun-Ming Lu

UI/UX 2-S-3 The Impact of AI NPCs on Fully Automated Riding Experience
Heesoo Sa, Dongwook Hwang

UI/UX 2-S-4 Enhancing Hospitality Service Experiences: Exploring Context-Aware Systems Based on Smart Accommodation Framework
Yuming Wang, Chaemoon Yoo, Kuan Zhang, Younghwan Pan

UI/UX 2-S-5 EXAMINING THE POPULATION STEREOTYPES OF EVERYDAY OBJECTS FOR MAGNITUDE MANIPULATION
Rachma Widaningtyas, Reginald Jeremiah Martua, Ardiyanto Ardiyanto

UI/UX 2-S-6 Exploring Usability and User Value of the Electric Powered Wheelchair for the Elderly and Physically Disabled
Sujin Seong, Yubin Ahn, Pakeeza Abid, Jaehyun Park

Visual 2

August 26 (Mon) | 10:15-11:45 | 2F 202A

Visual 2-S-1 Factors Affecting Text Legibility on LCD Interfaces of Home Appliances
Minjoon Sohn, San Hong, Namhee Kim, Sungwoo Jeong, Woojin Park

Visual 2-S-2 DYNAMIC SIGNS: Effects of position and age on detecting signs during dual tasks
Hiroshi Watanabe, Nana Itoh, Ken Sagawa, Hiroyasu Ujike, Reiko Sakata, Naoki Furuhata

Visual 2-S-3 Effects of glass transmittance, lighting luminance, and font size on home appliance legibility: LED display
San Hong, Minjoon Sohn, Namhee Kim, Sungwoo Jeong, Woojin Park

Visual 2-S-4 THE EFFECTS OF LAYOUT STRUCTURE AND PROXIMITY OF STATIC LIST-TYPE INFOGRAPHICS TO IMPROVE USER COMPREHENSION
Ma Jessica Patalud, Jazmin Tangsoc, Ezekiel Bernardo, Charmine Saflor

Visual 2-S-5 Beyond the Shelf Appeal: The Power of Visual Ergonomics in Packaging Design
Abhinav Singh Tomar, Sonal Atreya

VR/AR/Metaverse 2

August 26 (Mon) | 10:15-11:45 | 3F Samda B

VR 2-O-1 Virtual reality for the human-centred design of assistive devices
Ivan Rehder, Edmar Thomaz da Silva, Emilia Villani

VR 2-S-2 UX Factor Analysis of Virtual Meeting App Satisfaction: A Topic Modeling Approach to User Review Data
Lee Taehee, Han Jieun

VR 2-S-3 THE EFFECT OF A CHAT OPTION IN SOCIAL VIRTUAL REALITY VERSUS VIDEO-MEDIATED COMMUNICATION ON THE WIILINGNESS TO COLLABORATE
Nirit Gavish, Dor Gonen

VR 2-S-4 Observing User Manipulation Task behavior in HMD-based Virtual Reality Environments
Yeonjin Joo, Hanul Kim, Ilsun Rhiu

VR 2-S-5 Are the perceived and actual safety limits for obstacle crossing the same in virtual and real environments?
Seonghyeok Park, Shuping Xiong

VR 2-S-6 Effects of augmented reality instruction type on small-part assembly task performance: comparing younger and older workers
Kitae Hwang, Jungmin Ryu, Minjoon Sohn, Taehyun Kim, Hyeonyeong Lee, Philjun Moon, Woojin Park

A.I. 3

August 26 (Mon) | 13:15-14:45 | 3F Samda A

AI 3-O-1 LEVERAGING MOVENET LIGHTNING FOR ERGONOMIC RISK ASSESSMENT THROUGH LUBA
Neelesh Sharma, Kushal Dave, Mayank Tiwari, Atul Thakur, Anindya Ganguli

AI 3-S-2 A Machine Learning Study to Predict Maneuver Determination in Pre-Crash Scenarios Considering Underlying Driving Objectives
Hsueh Yi Lai

AI 3-S-3 Effects of Developer Characteristics and Usage Patterns on Trust in AI Coding Assistant
Young Woo Kim, Min Chul Cha, Sol Hee Yoon, Hyochang Kim, Seul Chan Lee

AI 3-S-4 Human Factors Integration for Effective, Safe and Ethical AI Development/Deployment in Healthcare – Lessons Learned from Leading AI-driven Healthcare Systems Transformation for/with People with Learning Disabilities
Gyuchan Thomas Jun, Satheesh Gangadharan

AI 3-S-5 DEVELOPING A PRELIMINARY ERGONOMIC EVALUATION SYSTEM WITH ARTIFICIAL INTELLIGENCE
Bruno Thurner, Raissa Costa, Mario Sobral Júnior, Kaellen Scantebelruy, Fernando Herkrath, Jansen Estrazulas

DHM 1

August 26 (Mon) | 13:15-14:45 | 2F 202A

DHM 1-O-1 Vanity Sizing and Online Apparel Shopping Consumer Behavior in Cognitive Perspectives
Sananda Das, Wasim Akram, Manjunath Vhatkar, Rauf Iqbal

DHM 1-O-2 Using prospective ergonomics to design digital twin
Naomi Kamoise, Clément Guérin, Mohammed Hamzaoui, Nathalie Julien, Jérémy Dupont, Laurent Forestier

DHM 1-S-3 On the influence of different interaction modeling approaches on the design of wearable assistive devices: a digital human model simulation study
David Scherb, Lukas Grabietz, Patrick Steck, Sandro Wartzack, Jörg Miehling

DHM 1-S-4 TOWARDS AUTOMATED HAND FORCE PREDICTIONS: USE OF RANDOM FOREST TO CLASSIFY HAND POSTURES
Aitor Iriondo Pascual, Malin Eklund, Dan Högberg

DHM 1-S-5 Development of a Foot Shape Model for U.S. Children in Flat and Toe-Off Postures
Hayoung Jung, Byoung-Keon Park, Sheila Ebert, Monica Jones, Matthew Reed

Product 1

August 26 (Mon) | 13:15-14:45 | 3F 302

Product 1-O-1 Automated Face Shape Recognition for Respirator Fit
Minji Yu, Linsey Griffin

Product 1-S-2 Design of a Device for Measuring Weight Distribution Performance of Military Backpacks
Daehun Lee, Joongsoo Kim, Uijung Kwon, Alisher Saduakas, Ulugbek Vahobjon Ugli Ismatullaev, Kwanmyung Kim

Product 1-O-3 Accounting for humans in the evaluation of innovative and disruptive technologies in complex operational environments
Francesca de Rosa, Elena Camossi

Product 1-S-4 Usability Study of Web Layout Design based on Eye Tracking Analysis
Junseong Lee, Jaein Lee, Youngjae Im

Product 1-S-5 Surface pressure sensitivity of the auricle and periauricular areas for ergonomic design purposes
Hao Fan, Mengcheng Wang, Tianjian Cui, Hui Chen, Wenyu Wu, Yuexin Huang, Yihui Ren, Xiyuan Zhang, Jinlei Shi, Diyong Long, Chunlei Chai

Product 1-S-6 Establishment of an Image Conversion Method that alleviates Burden of Focusing during Rearward Visibility with a Camera Monitor System
Ryunosuke Kiyota, Riku Adachi, Miwa Nakanishi, Seishi Takagi, Chiharu Sasaki, Kento Mera

Transport 3

August 26 (Mon) | 13:15-14:45 | 3F Halla A

Trans 3-S-1 Ergonomic Overview: Risk Factors Health Problem on Musculoskeletal Disorders at Driving Posture Among E-Hailing Drivers in Malaysia
Irwan Syah Md Yusoff, Shamsul Bahri Md Tamrin, Ng Yee Guan

Trans 3-S-2 Creating and Assessing Automotive Telltales for Preventing Drunk Driving
Daehui Kim, Jaehyun Park

Trans 3-S-3 A focus group examination of user needs within a rural microtransit system
Chris Mayhorn, Eleni Bardaka, Crystal Lee, Munindar Singh

Trans 3-O-4 Analysis of postures and space requirements for seat rotation in automated vehicles
Julia Gritzbach, Lutz Fischer, Daniel Holder, Wolfram Remlinger, Thomas Maier

Trans 3-S-5 Competencies and Technological Support for Remote Operator of Automated Vehicles: A Literature Review and Perspectives
Sarah Schwindt-Drews, Jan-Philipp Frenzel, Ole Hans, Bettina Abendroth, Jürgen Adamy

Trans 3-S-6 Effects of autonomous shuttle's distance, speed, eHMI and pedestrian's social environment on pedestrian's crossing decision
Valentin Strahm, Loïc Caroux, Tom Hermen, Céline Lemercier

UI/UX 3

August 26 (Mon) | 13:15-14:45 | 3F Halla B

UI/UX 3-O-1 A qualitative investigation of the usability issues in the design of airline boarding passes
Fatemeh Abareshi, Hamidreza Mokarami, Alireza Choobineh

UI/UX 3-O-2 Design a Mobile-Based Online Learning Application for Children with Special Needs Using Design Thinking Framework
Wendy Tiara Larasati, Dyah Santhi Dewi

UI/UX 3-O-3 COGNITIVE ANALYSES FOR PRINTING TASKS USING DTF TECHNOLOGY: A MENTAL WORKLOAD AND HUMAN ERROR APPROACH
Gabriela Pérez Potter, Aide Aracely Maldonado Macías, Mónica Gabriela Gutiérrez Hernández

UI/UX 3-S-4 A Mental Model of Non-Verbal Communication for Team Situation Awareness Enhancement in Urgent Situations in Multiplayer Online Battle Arena
Changho Lee, Jeonguk Hong, Gyewon Jeon, Sangwon Lee

UI/UX 3-S-5 Investigating Factors Influencing Shifts in the Relative Significance of User Needs using Large Language Model
Beom-Su Kim, In-Seok Heo, Sanghyun Choo, Sang-Ho Kim

UI/UX 3-S-6 A Study to Explore How Communal User Needs and Quality of Service Related across Various Domains using Text Mining
Seong-Taek Kim, In-Seok Heo, Beom-Su Kim, Krishna Sahithi Karur, Alivia Kirana Hartono Putri, Minjun Kim, Sang-Ho Kim

VR/AR/Metaverse 3

August 26 (Mon) | 13:15-14:45 | 3F Samda B

VR 3-O-1 Factors Associated With Sickness in Virtual Environment: What Can Affect Our Experience?
Ghazal Rahimzadeh, Kathleen Lacy, Shady Mohamed, Darius Nahavndi, Lars Kooijman, Houshyar Asadi

VR 3-S-2 Evaluating the User Experience of Thermal Radiation Using Radiant Heat Flux-Based Thermal Rendering
Hoseok Jung, Hyunmin Kang, Sohyung Cho, Harim Kim

VR 3-S-3 Development of a Usability Testing System Based on Virtual Reality for Ergonomic Product Development
Jongbae Park, Xin Cui, Yejin Lee, Minjae Kim, Goeun Shim, Soyun Jung, Heecheon You

VR 3-S-4 Influence of Skin-Surface Contact Ratio on the Thermal Response of Displays for Hand-Object Interactions
Hoseok Jung, Jiyoon Lee, Kyuhyoung Cho, Hyochang Kim

VR 3-S-5 Development of a User Experience Evaluation Framework for the User Interfaces and Interactions of Extended Reality Systems
Goeun Shim, Jongbae Park, Xin Cui, Heecheon You

A.I. 4

August 26 (Mon) | 16:45-18:15 | 3F Samda A

AI 4-S-1 Development of a Smartphone Grip Posture Detection and Classification Model based on Machine Learning Ensemble Techniques
Dohoon Kwon, Xin Cui, Younggeun Choi, Yejin Lee, Heecheon You

AI 4-S-2 Exploring methods to identify and condition joint position tracking errors from single camera pose estimation technology
Dennis Larson, Steven Fischer

AI 4-S-3 How to Optimize Design Creative Performance using Generative AI?
Jeonghyun Kang, Dongwook Hwang

AI 4-S-4 Methodological Exploration to Evaluate the Role of AI in Animation Production Efficiency: Application of Network Data Envelopment Analysis (NDEA) Model
Yihui Chen, Tao Yu, Younghwan Pan

AI 4-S-5 Deep Convergence: the Revolutionary Application of Artificial Intelligence in Video Content Innovation and Its Challenges
Tao Yu, Yihui Chen, Younghwan Pan

AI 4-S-6 The Impact of Professionalism on Human-Machine Trust in Artificial Intelligence Generated Content
Zequn Liu, Zhe Chen, Faizan Iftikhar

Aging 1

August 26 (Mon) | 16:45-18:15 | 2F 202B

Agi 1-O-1 Are Italian older adults ready for gerontechnologies? Results from a survey on products for Active and Healthy Ageing
Mattia Pistolesi, Francesca Tosi, Claudia Becchimanzi

Agi 1-S-2 THE IMPACT OF PHYSICAL ACTIVITY ON THE REDUCTION OF SICK LEAVE AMONG SENIOR HEALTHCARE PERSONNEL: SETIF REGION, ALGERIA, AS A MODEL
Houda Kherbache, Lahcene Bouabdellah, Mohamed Mokdad, Bouhafs Mebarki

Agi 1-S-3 The effect of preference and actual days spent working from home on stress and musculoskeletal pain in older workers
Jodi Oakman, Katrina A Lambert, Victoria P Weale, Rwth Stuckey, Melissa Graham

Agi 1-S-4 Evaluation of Indian Kitchen Design for Ageing in Place using Space Syntax Theory
Sukesha Ghosh, Swati Pal

DHM 2

August 26 (Mon) | 16:45-18:15 | 2F 202A

DHM 2- O-1 How to study human skills development in a complex industrial environment: feedback on the use of digital simulation in a multidisciplinary project
Maxence Denu, Aurélie Landry, Pierre David, Fabien Mangione

DHM 2- O-2 NEW 4D DYNAMIC BODYMETRICS FOR SIZE, SHAPE, COMPOSITION INDEXES
Sofia Scataglini, Steven Truijen

DHM 2- S-3 IMPROVING OCCUPANT PACKAGING POSTURE PREDICTION THROUGH INTEGRATION OF SIMULATION AND REAL DATA
Estela Perez Luque, Erik Brolin

DHM 2- S-4 Correlation Analysis of Ear-earbud Interface Geometry and Wearing Fit for Development of a Virtual Fit Evaluation System
Xin Cui, Hayoung Jung, Jongbae Park, Chunlong Yu, Wonsup Lee, Yejin Lee, Heecheon You

DHM 2- S-5 Examination of Work Breaks and Job Rotation Using a Motor-Unit Based Fatigue Model
Ryan Foley, Nicholas La Delfa

DHM 2- S-6 Effects of Augmented Reality Visual References on Human Postural Stability in Visually Restricted Environments
Kangwon Kim, Kitae Hwang, Sungwoo Jeong, Hyeonyeong Lee, Woojin Park

Product 2

August 26 (Mon) | 16:45-18:15 | 3F 302

Product 2-O-1 CHALLENGES AND FUTURE TRENDS OF EEG: APPLICATION OF THE HUMAN-CENTRED DESIGN APPROACH IN THE PAEDIATRIC FIELD
Ester Iacono, Salvo Andrea Denaro, Francesca Tosi

Product 2-O-2 DESIGNING A PROTOTYPE OF TRADITIONAL SELOP (BUSTONG) BASED ON EMPATHIC APPROACH
Noor Fitrihana, Nova Suparmanto, Grahita Prisca Brilianti, Sri Wening

Product 2-O-3 FACTORS AFFECTIONG THE FORM DESIGN OF MINIATURE MODEL PLAYERS: A CASE STUDY ON WARHAMMER WARGAMES
Keng-Wen Hu, Elena Carolina Li

Product 2-S-4 NOSE SHAPE CATEGORIZATION AND ITS IMPACT ON DESIGN IN HEAD MOUNTED DISPLAYS
Thomas Schnieders, Karen Bredenkamp, Sebastian La Rosa

Product 2-S-5 Pressure distribution of the six different postures compared between the two sofa cushions
Udomboonyanupap Sumalee, Ruennusan Metta, Boess Stella, Vink Peter

Transport 4

August 26 (Mon) | 16:45-18:15 | 3F Halla A

Trans 4-O-1 Exploring driving comfort and vehicle usability in designing e-cargo bikes for last-mile delivery as sustainable urban mobility solutions
Alessandra Rinaldi, Jonathan Lagrimino

Trans 4-O-2 Evolved comfort in the era of autonomous driving: Emic/Etic approach to reformulate it
Saeedeh Mosaferchi, Alireza Mortezapoursoufiani, Alessandro Naddeo

Trans 4-S-3 The Development of a Scenario-Based Human-Machine-Environment-Procedure (HMEP) Classification Scheme for the Root Cause Analysis of Helicopter Accidents
Chia-Fen Chi, Colin Drury

Trans 4-S-4 Rainy Night Riders: Assessment of Visual Performance Impact of Safety Helmet Visors
Kang-Hung Liu, Yen-Ting Lin, Cheng-Hsuan Hsu, Shu-Yin Wang, Wen-Kui Yang

Trans 4-S-5 Is it necessary to label autonomous vehicles? A survey on the attitudes of drivers and pedestrians
Xiaohan He, Yu Zhu, Ronggang Zhou

Trans 4-S-6 Alert and Engaged: Navigating the Warnings of Level 2 Automated Driving
Joanne Harbluk, Caroll Lau, Peter Burns

UI/UX 4

August 26 (Mon) | 16:45-18:15 | 3F Halla B

UI/UX 4-O-1 Novel GUI for the biology sector based on HCD approach
Mattia Pistolesi, Alessia Brischetto

UI/UX 4-O-2 DESIGNING PAEDIATRIC HOSPITAL NAVIGATION: A HUMAN-CENTRED MOBILE APP SOLUTION
Ester Iacono, Virginia Piombino, Francesca Tosi

UI/UX 4-S-3 Unfolding the User Experience: A Comprehensive User Experience Framework for Foldable Smartphone
Yankuan Liu, Lili Dong, Pei-Luen Patrick Rau

UI/UX 4-S-4 Developing a User-Centric Stepwise Comment Moderation Service: Balancing Free Expression and Respectful Online Interaction
Jonghan Kim, Suhwan Jo, Woosung Jung, Manseo Kim, Sung Park

UI/UX 4-S-5 Effects of Explanation Methods with Users' Risk-Taking Levels on Financial Decision-Making in a Chatbot
Hyewon Yoon, Sangwon Lee

UI/UX 4-S-6 Development of a User's Mental Model of Content Browsing for Co-Viewing in Smart TV
Junhyuk Lee, Sangwon Lee

VR/AR/Metaverse 4

August 26 (Mon) | 16:45-18:15 | 3F Samda B

VR 4-O-1 Art Without Boundaries: Assessing the Impact of Virtual Technologies on Blind Users' Museum Experiences
Libin Yuan, Alessia Brischetto, Francesca Tosi

VR 4-S-2 A Comparative Study of Controller vs Hand Gesture Typing based on Ray-Casting in Virtual Environment
Min Joo Kim, Yu Gyeong Son, Yong Min Kim, Donggun Park

VR 4-S-3 User-centered development of an AR-application for the remote support of a heart-lung support system
Romy Alm, Simon König, Claus Backhaus

VR 4-S-4 A multi-step explorative study of Virtual Reality as an enabler for office tasks: The VirKa project
Cecilia Berlin, Maral Babapour Chafi

VR 4-S-5 A Review: Identification of Menu Types, Interaction Tasks, and Performance Metrics of Menu Interaction in A Virtual Environment
Benedikta Anna Haulian Siboro, Chiuhsiang Joe Lin

VR 4-S-6 Integrating Virtual Reality and Positive Psychology for Mental Health Enhancement in Art College Students
Lusha Zhu, Younghwan Pan

Better Life
Ergonomics
for Future
Humans

IEA 2024

Lectures

DAY 2
August 27
(Tue)

- Aging 2
- Anthropometry 1
- A.I. 5
- ATWAD 1
- Children/Training/Education 1, 2, 3
- DHM 3
- Healthcare 1
- Informal 1
- Macroergonomics 1, 2
- Musculoskeletal 1, 2, 3
- Product 3, 4
- Robotics 1
- Safety and Health 1, 2, 3
- Sustainable Development 1, 2
- Transport 5
- UI/UX 5, 6
- VR/AR/Metaverse 5, 6
- Potpourri 2

A.I. 5

August 27 (Tue) | 08:30-10:00 | 3F Samda A

AI 5-O-1 The impact of artificial intelligence assistant transparency and anthropomorphism on user willingness to use
Linhui Sun, Jinglu Fan, Wei Zhang

AI 5-O-2 EMBODIED EXPERIENCE OF DRAG PERSONA USING AI: A GENDER-BASED METHODOLOGY FOR ERGONOMICS
Alejandro Daniel Murga González

AI 5-O-3 CONCEPTUALIZATION OF DEMONSTRATORS FOR HUMAN TECH-NOLOGY INTERACTION
Andrea Altepost, Farah Elaroussi, Adjan Hansen-Ampah, Linda Hirsch, Wolfgang Merx, Leif Oppermann, Astrid Rosenthal-von der Pütten, Stefan Schiffer

AI 5-O-4 Navigating the Future of Education: Designing an AI-powered Learning Experience Platform
Jiyoung Kwahk

AI 5-S-5 Improving Surgical Safety by Deep Learning Approaches for Enhanced Gauze Detection in Laparoscopic Procedures: A Case Study
Benkun Chen, Lichen Wang, Beiming Song, Di Liu, Rong Yin

Aging 2

August 27 (Tue) | 08:30-10:00 | 2F 202B

Agi 2-S-1 Investigating Pain Coping Strategies Among Aging Workers with Chronic Musculoskeletal Pain that Maintain High Work Performance: A cross-sectional study
Siwaluk Srikrajang, Narucha Komolsuradej

Agi 2-S-2 Exploring age-related differences in user frustration with technology
Christopher Mayhorn, Nina Ferreri

Agi 2-S-3 BRIDGE EMPLOYMENT'S EFFECTS ON RETIREES' WELL-BEING AND MENTAL HEALTH
Bouhafs Mebarki, Mohamed Mokdad

Anthropometry 1

August 27 (Tue) | 08:30-10:00 | 3F 303B

Ant 1-O-1 Predicting Respirator Fit: A Model Utilizing Effective Face Anthropometry
Minji Yu, Linsey Griffin

Ant 1-O-2 DETAILED ANTHROPOMETRY OF AUSTRALIAN ADULTS
Francois Fraysse, Christina Kirsch, Paul Murray, Peter Schumacher, Alexandra Wade, Alistair Furnell

Ant 1-S-3 Defining the built environment considering the space requirements of wheeled mobility device (WhMD) users: Developing a Canadian-Based Database
David Houston, Iris Levine, Alison Novak

Ant 1-S-4 HANDEDNESS MATTERS: EXPLORING VARIANCES IN HAND ENVELOPES
Vanessa Segura-Duque, Tse-Hsun Kuo, Emily Seifert, Benjamin Anderson, Linsey Griffin

Ant 1-S-5 ANTHROPOMETRY AND PRINCIPAL COMPONENT ANALYSIS FOR DEVELOPONG TAIWANESE PASSIVE UPPER LIMB EXOSKELETONS
Yu-Cheng Lin, Kang-Hung Liu

Ant 1-S-6 Chinese auricular shape types for ear-related wearables
Hao Fan, Mengcheng Wang, Jifeng Xu, Dedong Zheng, Jingyuan Tian, Wei Zhou, Han Gao, Zequan Lin, Jinlei Shi, Ao Jiang, Hao Fang, Feng Gan, Chunlei Chai

Children/Training/Education 1

August 27 (Tue) | 08:30-10:00 | 4F 401B

CTE 1-O-1 The Effects of Short-term Meditation on the Mood-related Attention during Online Learning: A Pilot Study
Yaning Li, Yu Zhang, Xi Qian, Binbin Ye, Yibo Zhao, Dechen Wu, Zushi Liu, Bingmin Guo

CTE 1-O-2 Factors Affecting Perceived Career Decision-Making of Filipinos across Generational Cohorts: A Structural Equation Modeling Approach
Yoshiki Kurata, Nicole Ann Angkaw, Sarah Grace Emmanuelle Cabanacan, Kristel Ann Catiis, Julia Beatrice Marie Maquinto

CTE 1-O-3 Experiences in teaching ergonomics as part of an undergraduate course on occupational safety and health: a case from the National Faculty of Public Health in Colombia
Yaniel Torres

CTE 1-O-4 THE TRAINING OF THE RIACHUELO CLASS CREW OF BRAZIL'S NAVY: EXPLORING ERGONOMIC DEMANDS THROUGH ANTROPHOTECHNOLOGY PERSPECTIVES
Henrique Ribeiro Menezes, Mario Cesar Vidal, Júlio César Neves

CTE 1-O-5 STRUCTURAL ASPECTS OF THE PERCEPTION OF HIGHER EDUCATION TEACHERS REGARDING EMERGENCY REMOTE TEACHING: THE DIFFICULTY OF INTERACTION AS A CENTRAL CATEGORY OF ERGONOMIC DEMAND
Pedro Cabral Junior, Júlio César Neves

CTE 1-O-6 Predicting Skill Decay: A Practical Application of the Skill Decay Analysis Tool
Sue Brouwers, Wendy Joung

DHM 3

August 27 (Tue) | 08:30-10:00 | 2F 202A

DHM 3-S-1 Creation of a personalized digital human model from external skin surface and its repositioning
Xuguang Wang, Yoann Lafon, Georges Beurier, Alejandra Polanco, Junfeng Peng

DHM 3-O-2 Integrating Transactive Memory Systems into the Mutual Belief Model: Simulation Modeling and Experiment
Miao Lu, Taro Kanno

DHM 3-S-3 Modeling of three-person team cooperation through experiments
Naoki Okabe, Taro Kanno, Haruka Yoshida, Daisuke Karikawa, Kohei Nonose, Satoru Inoue

DHM 3-S-4 Analysis of Postural change Strategy during Prolonged Sitting Using Musculoskeletal Model
Akinari Hirao

Product 3

August 27 (Tue) | 08:30-10:00 | 3F 302

Product 3-O-1 TREMORASSIST3D: DEVELOPING A LOW-COST 3D-PRINTED WEIGHT BRACELET PROTOTYPE FOR UPPER LIMB TREMOR MANAGEMENT
Carolina Alonso, Carolina Felix Regis, Thamyres Abreu

Product 3-O-2 Initial Biomechanics Approach of Non-Powered Hand Tool Size Selection: An Analysis for Optimal Ergonomic Design
Ricardo P. Arciniega-Rocha, Vanessa C. Erazo-Chamorro, Yesenia M. Paz-Cerón, Istvan Biró, Gyula Szabo

Product 3-S-3 DESIGNING EXOSKELETON FEATURES FOR SURFACE MINING WORKERS
Fedra Iskandar, Khoirul Muslim

Product 3-S-4 Ultra Personalized Products and Services (UPPS)
Daan van Eijk

Product 3-S-5 APPLICATION OF THE PEAK-END RULE TO SEAT DISCOMFORT
Richard Goossens

Product 3-S-6 A scenario-based human-machine-environment-procedure (HMEP) model for the analysis of construction accidents and implementation of SMS
Lin Yi-Cheng, Chi Chia-Fen

VR/AR/Metaverse 5

August 27 (Tue) | 08:30-10:00 | 3F Samda B

VR 5-S-1 Framework for realistic sports training in the virtual world using photogrammetry - Demonstration and usability for the extreme sport of luge
Bernhard Hollaus, Jonas Kreiner, Max Gallinat, Denny Yu

VR 5-S-2 Quantification of Vergence–Accommodation Conflict for Virtual Reality Learning Content
Takashi Shibata, Shugo Kasuya

VR 5-S-3 Immersive and Interactive Digital Twins to Train Engineering Students
Sylvain Fleury

VR 5-S-4 IMMERSION IN THE SHADOWS: PHYSIOLOGICAL MARKERS OF FLOW EXPERIENCE IN A VIRTUAL REALITY SURVIVAL HORROR GAME
Sanjram Premjit Khanganba, Anantha Ubaradka

Children/Training/Education 2

August 27 (Tue) | 10:15-11:45 | 4F 401B

CTE 2-O-1 Ergonomics teaching for civil society: "Innovation in teaching and learning Ergonomics through virtual tools"
Gabriela Villafañez, Arlen Garagay

CTE 2-S-2 ANALYZING EYE MOVEMENT AND PERCEIVED WORKLOAD AMONG WATCH OFFICERS WITH VARIED MARITIME EXPERIENCE DURING NAVIGATION TRAINING
Ta-En Hung, Chien-Chi Chang

CTE 2-S-3 IE Students' well-being and experiences in the blended learning set-up: A semester long case study
Lorelie Grepo

CTE 2-S-4 Multilevel and longitudinal analysis of cognitive sharing: the case of top-level soccer players in a training center
Thibault Kerivel, Julien Guibourdenche, Magali Prost, Cyril Bossard

CTE 2-S-5 ERGONOMICS AND HUMAN FACTORS IN ENGINEERING UNDERGRADUATE EDUCATION: THE CANADIAN CASE
Nancy Black, W. Patrick Neumann, Onésime Sirois

CTE 2-S-6 ERGONOMICS AND HUMAN FACTORS CERTIFICATION (CEFH) FOR UNDERGRADUATE STUDENTS IN BRAZIL: PILOT PROJECT IN AN ENGINEERING COURSE (CEFH-E)
Rosimeire Sedrez Bitencourt, Claudia Ferreira Mazzoni, Bianca Souza Jordão, Lucy Mara Baú, Paulo Antonio Barros Oliveira

Informal 1

August 27 (Tue) | 10:15-11:45 | 3F 301

Informal 1-O-1 STUDY OF THE WORK OF MOTORCYCLE COURIERS: FROM INFORMALITY TO PRECARIOUSNESS
Marcela Silva, Raoni Simões

Informal 1-O-2 SOCIAL INNOVATION MODEL FROM SYSTEMIC ERGONOMICS FOR GRASSROOTS WASTE PICKERS IN THE CITY OF TULUÁ, IN THE VALLE DEL CAUCA, COLOMBIA
Germán Cobo Mejía, Jose Orlando Gomes, Juan Carlos Velasquez Valencia

Informal 1-O-3 RISK OF MUSCULOSKELETAL DISORDERS IN WORKERS OF MICRO AND SMALL-SIZED ENTERPRISES IN CHILE: A LOOK TO LABOR PRECARIOUSNESS FROM ERGONOMICS
Carlos Ibarra, Pamela Astudillo, María Ramos, Forlin Aguilera

Musculoskeletal 1

August 27 (Tue) | 10:15-11:45 | 3F Halla A

Mus 1-O-1 IMPROVEMENT OF HYDROJETTING GUN BASED ON SAFETY, STANDARDS AND ERGONOMICS: ANALYSIS OF ACTIVITY AND BIOMECHANICS
Elaine Cristina Silva, Eduardo de Castro Assis, Carla Aparecida Gonçalves Sirqueira, Marcos Vinícius Do Espírito Santo, Marcus Vinicius de Paula, Julio Cezar de Alvarenga Pires, Luciano Do Valle Garotti, Cesar Luis Silva, Paulo Henrique Giusti

Mus 1-S-2 An investigation into the lower back pain attitudes and beliefs of current educators and future ergonomists in South Africa
Abigail Gillain Du Plessis

Mus 1-S-3 Gravel collectors in Algeria's south-west: work-related musculoskeletal issues and risk factors
Mohamed Mokdad, Bouhafs Mebarki, Mourad Semmani

Mus 1-S-4 Machine Learning Based Motion Capture Using Smartphones during Lifting Tasks
Mina Salehi Sedeh, Jeong Ho Kim

Mus 1-S-5 DEVELOPING A COMPUTER VISION-BASED SYSTEM FOR WORK POSTURE ASSESSMENT IN THE FIELD
Jhih-Han Hu, Pei-Shan Lin, Pin-Ling Liu, Chien-Chi Chang

Product 4

August 27 (Tue) | 10:15-11:45 | 3F 302

Product 4-O-1 IMPROVEMENT OF HYDROJETTING GUN BASED ON SAFETY, STANDARDS AND ERGONOMICS: ACTIVITY ANALYSIS AND ELECTROMYOGRAPHY
Elaine Cristina Silva, Eduardo de Castro Assis, Carla Aparecida Gonçalves Sirqueira, Marcos Vinícius Do Espírito Santo, Marcus Vinicius de Paula, Julio Cezar de Alvarenga Pires, Luciano Do Valle Garotti, Cesar Luis Silva, Paulo Henrique Giusti

Product 4-S-2 Evaluating the Impact of Compact Booth Size on Web Conference Productivity
Yoshihiro Banchi, Yusuke Ohira, Reiko Mitsuya, Takashi Kawai

Product 4-S-3 Identification of Hand Grasps through the Analysis of Touch Point Distribution
Mohammad Shah Faizan, Swati Pal

Product 4-S-4 QUANTIFYING AR/VR/XR HEADSET COMFORT: FOREHEAD PRESSURE AS A PREDICTIVE LONG-WEAR COMFORT METRIC
Karen Bredenkamp, Stephen Rugg, Brian Heckman, Kate Kujawa

Product 4-S-5 Shaping the side bolster is crucial in designing for car seat comfort
Peter Vink, Peter Vink, Sepideh Ghodrat, Dave Withey, Max Nijhuis

Product 4-S-6 The design of scenario-based inforgraphics for the safety training program in construction industry
Chia-Fen Chi

Safety and Health 1

August 27 (Tue) | 10:15-11:45 | 3F Samda B

Safety 1-O-1 Effects of the Left Foot State During Emergency Braking
Yuuka Kurihara, Taiga Yamagiwa, Yuito Nishida, Toshio Murayama

Safety 1-O-2 Towards a 4D-BIM-Based Decision Support System for Occupational Safety about Roofing Activities in Construction
Numan Khan, Sylvie Nadeau, Xuan-Tan Pham, Conrad Boton

Safety 1-S-3 Labor Reintegration: A Nonlinear Process -Since the Prescription to the reality of the Labor Reintegration
Ana María Velasco-Vivas, Fátima Díaz-Bambula

Safety 1-O-4 EVALUATION OF HUMAN FACTORS IN THE CONTROL ROOM DESIGN ON OFFSHORE DRILLING RIG
Fabricio Andretti, Marcelo Costa

Safety 1-S-5 Improving workplace safety in gig work from the perspectives of key stakeholders in Australia
Alice Cheng, Carlo Caponecchia, Sharron O'Neill

Safety 1-S-6 MINIMIZING EXPOSURE TIME OF PT XYZ COLD STORAGE WORKERS TO REDUCE THE RISK OF HYPOTHERMIA AND FROSTBITE
Chandra Dewi Kurnianingtyas, Shellen Natasya Suman Ho, Twin Yoshua R. Destyanto

UI/UX 5

August 27 (Tue) | 10:15-11:45 | 3F Halla B

UI/UX 5-S-1 How do dark patterns affect eye movements during online shopping?
Lei Luo, Masato Takanokura

UI/UX 5-S-2 WARM-UP COMPLIANCE EXPLORATORY HUMAN FACTORS STUDY FOR BIOLOGICS MEDICATION INJECTION DEVICES
Young Chun, Angela Muriset

UI/UX 5-S-3 Explanatory Modelling of Factors Affecting the Adoption of Self-Service Technology
Ezekiel Bernardo, Josh Adrian Dycaico, Jaeyeon Park, Giannina Anais Rodas, Cedric Nathaniel Yu, Jazmin Tangsoc

UI/UX 5-S-4 A Study on Types of Automotive System Information to Improve Driver Trust in Takeover Situations
Daeun Joung, Youngseo Kim, Jinyoung Han, Yewon Seol

UI/UX 5-S-5 IDENTIFYING SAFETY-ORIENTED HUMAN FACTORS METHODS FOR DESIGNING AND REDESIGNING SAFE ELECTRONIC MEDICATION MANAGEMENT SYSTEMS
Selvana Awad, Melissa Baysari

UI/UX 5-S-6 Time's Up!: Assessing the Impact of Timer and Warning Alerts in Online Learning Management System towards Student's Satisfaction and Perceived Usefulness
Ezekiel Bernardo, Beatriz Anne De Jose, Danielle Alexandria Pasia, Jazmin Tangsoc, Charmine Sheena Saflor

Musculoskeletal 2

August 27 (Tue) | 13:15-14:45 | 3F Halla A

Mus 2-S-1 Does lumbar spinal creep occur in near full flexion?
Sang Hyeon Kang, Gary Mirka

Mus 2-S-2 How does the exoskeleton reduce stress on the passive tissues of the lower back?
Hanbo Zou, Sangeun Jin

Mus 2-S-3 Lumbar spinal creep as a function of work-rest schedule
Sang Hyeon Kang, Gary Mirka

Mus 2-S-4 Day-to-day quantitative demands, stress appraisal and musculoskeletal pain in university employees
Victoria Weale, Jasmine Love, Els Clays, Kate McCredie, Jodi Oakman

Mus 2-S-5 Update on the Musculoskeletal Health of Office Employees and Homeworkers in a Decade in Hong Kong
Justine M.Y. Chim

Mus 2-S-6 Biomechanical Effects of Saddle Height in Cycling With Unilateral Transtibial Prostheses
Heloisa Seratiuk Flores, Wen Liang Yeoh, Ping Yeap Loh, Kosuke Morinaga, Satoshi Muraki

Safety and Health 2

August 27 (Tue) | 13:15-14:45 | 3F Samda B

Safety 2-S-1 Occupational Stress and Health in Broadcasting Activity. An Introspective Ergonomic Analysis
Delia Mihaila, Raluca Maria Iordache, Viorica Petreanu, Carmen Bușneag

Safety 2-S-2 Assessing the Influence of Mental Workload and Stress on Firefighters in Manila Using The NASA TLX: Implications for Performance and Well-being
Janina Elyse Reyes

Safety 2-S-3 Working in the New Normal: Exploring Factors that Contribute to the Experience of Burnout Among Filipino Remote Workers
Krishna Shai Azurin, Aura Matias

Safety 2-S-4 Analyzing Employees' Satisfaction on Implemented Company Activities to Address Job Stress and Burnout in Work-From-Home Set-up
Nikka Ella Caneda, Aura Matias

Safety 2-S-5 ADDRESSING HYGIENIC CONCERNS: REDESIGNING ABLUTION FACILITY FOR MALAYSIAN PUBLIC RESTROOMS
Dian Darina Indah Daruis, Siti Nur Syazwani Sairan, Shahriman Abu Bakar

Safety 2-S-6 A simulation research on the thermal comfort of pilots in air ventilation clothing during high-altitude and high-temperature operations
Qing Zhang, Wenshan Yang, Chengyi Liu, Jiachen Nie, Li Ding, Lihao Xue

Sustainable Development 1

August 27 (Tue) | 13:15-14:45 | 3F 302

Sustain 1-O-1 Factors Affecting Filipinos' Perception on Purchasing Life Insurance: An Integration of the Theory of Planned Behavior
Yoshiki Kurata, Thea Andrea Abner, Psalmantha Galotera, Marianne Lobederio

Sustain 1-O-2 Validation of a questionnaire of the worker's perspective on success factors of Ergonomics programs in the maquiladora industry in Ciudad Juarez, Mexico
Aide Aracely Maldonado-macias, Julio César Ramos Rodríguez

Sustain 1-O-3 HUMAN FACTORS IN SMALL MODULAR REACTORS: A SCOPING REVIEW OF THE LITERATURE
Maria Cecilia Bruzi, Luca Kling, Anna Sophia Piacenza Moraes, Paulo Victor de Carvalho, Rodrigo Arcuri

Sustain 1-S-4 The National Programmes on the Application of ILO Technical Tools on Ergonomics: Ten-year Progress in China among Multi-Sectors
Min Zhang, Yuting Tang, Tuo Liu, Yang Lu, Yiming Huang, Fuyuan Wang, Jing Wu, Qianqian Luo

Sustain 1-O-5 DEVELOPING SAFE WORK ACTIVITIES IN THE INDUSTRIES 4.0 BY ANALYSING WORK ACTIVITY AND OCCUPATIONAL EXPOSURE. METHODOLOGICAL DEVELOPMENT AND INDUSTRIAL APPLICATION
Louis Galey, Marie Chizallet, Emilie Le Guen, Marco Peña Jimenez, Sophie Prunier-Poulmaire, Mathilde Brossard, Alain Garrigou, Thierry Meyer, Bruno Vallespir

Sustain 1-S-6 Climate change: how will it affect activities in healthcare institutions?
Rafaël Weissbrodt, Pauline Roos, Krsmanovic Bozica, Sandrine Corbaz-Kurth, Fournier Claude-Alexandre, Stéphanie Hannart, Valentino Piana

Children/Training/Education 3

August 27 (Tue) | 15:00-16:30 | 4F 401B

CTE 3-O-1 Safety Issues for outdoor professionals: a constructive ergonomics approach to vocational training
Déborah Gaudin, Antoine Girard

CTE 3-O-2 Enhancing Worker Safety in Manufacturing: A Human-Centered Approach in Interaction Design of Digital Training Tools
Lucia Vigoroso, Günter Alce, Luca Boccadutri, Federica Caffaro

CTE 3-S-3 A TABLET-BASED APPLICATION FOR ENHANCING HAND DEXTERITY
Hao-Yun Yao, Pin-Ling Liu

CTE 3-S-4 A Review of Competencies for Human Factors and Workplace Safety and Health
Angela Tan, Yoon Ping Chui

CTE 3-S-5 How well a simulation-training program prevents WMSDs among nursing staff?
Bouhafs Mebarki, Brahim Zaoui, Mohamed Mokdad

CTE 3-S-6 A collaborative HFE postgraduate education programme: promoting cohesion and consistency
Fiona Trevelyan, Liz Ashby, Felicity Lamm, Joanne Crawford, Stephen Legg

Macroergonomics 1

August 27 (Tue) | 15:00-16:30 | 3F 301

Macro 1-O-1 A MODEL FOCUSING ON SYSTEMIC ERGONOMICS AND ACTIVITY ANALYSIS: NEWBORNS SAVING FAMILIES IN OBSTETRIC INTENSIVE CARE UNITS
Juan Carlos Velasquez Valencia, Paula Andrea Velasquez Trujillo, Tahar Hakim Benchekroun, Maribel Garzón Mejía

Macro 1-O-2 TOWARDS THE SUSTAINABILITY OF KNOWLEDGE TRANSMISSION IN PROFESSIONAL CONTEXTS
Cláudia Pereira, Catherine Delgoulet, Marta Santos

Macro 1-O-3 STRENGTHENING THE STRATEGIC RELEVANCE OF HFE THROUGH LINKS TO INNOVATION MANAGEMENT – LEARNINGS FROM A LARGE BIBLIOMETRIC STUDY
Udo-Ernst Haner, Katharina Hoelzle

Macro 1-O-4 Occupational practices of the microbusiness owner: from strategic to production management
Caroline Jolly, Elise Ledoux, Alain Garrigou

Macro 1-S-5 Modeling and analysis of error causation network for NPP MCR team
Jing Wen, Pengcheng Li

Potpourri 2

August 27 (Tue) | 15:00-16:30 | 2F 202A

Potpourri 2-O-1 ERGONOMIC WORKPLACE DESIGN FOR WORKERS WITH DISABILITIES AND THE POTENTIAL OF MOCUP SYSTEMS
Matic Breznik, Jasna Tompa, Natasa Vujica Herzog

Potpourri 2-S-2 Regaining Self-Control: Does Targeted Parietal Neurofeedback Buffer the Vigilance Decrement?
Salim Mouloua, Tyler Shaw

Potpourri 2-S-3 Development of a shared tool for collaborative robotic applications in assembly or disassembly systems
Davide Ciaghi, Luca Gualtieri, Federico Fraboni, Patrick Dallasega, Marco De Angelis

Potpourri 2-S-4 Assessing Eye Gaze Patterns in Dyslexic Individuals during Reading Activities
Wan Nor Fatihah W Mahmod, Norashiken Othman, Ummi Noor Nazahiah Abdullah

Potpourri 2-S-5 A STUDY OF THE EFFECTS OF MENTAL WORKLOAD ON COMPLEXITY FEATURES OF EYE MOVEMENT
Luciana Triani Dewi, Ray F. Lin

Potpourri 2-S-6 SURVEY OF ERGONOMICS SUBJECTS IN UNDERGRADUATE COURSES IN BRAZIL AND PROPOSAL FOR THE RECOGNITION OF THOSE WHO INVEST IN TRAINING IN HUMAN FACTORS
Rosimeire Sedrez Bitencourt, Claudia Ferreira Mazzoni, Bianca Souza Jordão, Lucy Mara Baú, Paulo Antonio Barros Oliveira

Robotics 1

August 27 (Tue) | 15:00-16:30 | 3F 303B

Robot 1-O-1 EFFECT OF EXOSKELETON FAILURE ON HUMAN TRUST
Jing Qiu, Yilin Wang, Hong Cheng, Xiuying Hu, Haochen Feng

Robot 1-O-2 Ergonomics Aware Adaptive Robot Behavior for Human-Robot Collaborations in Stationary Tooling Tasks
Srikanth Nouduri, Krittapas Boonpasart, Alexander Mertens, Verena Nitsch

Robot 1-S-3 Evaluation of passive occupational exoskeletons in port embarkation and disembarkation of ships: two case studies
Lorenzo Grazi, Andrea Parri, Federica Aprigliano, Ilaria Pacifico, Francesco Giovacchini, Pietro Cosentino, Enzo Raugei, Tommaso Bellandi, Emilio Trigili, Nicola Vitiello, Simona Crea

Robot 1-S-4 Gait Adaptations to Plantarflexion Assistance Based on Predefined Torque Trajectories
Wen Liang Yeoh, Fukuda Osamu, Nobuhiko Yamaguchi, Hiroshi Okumura, Satoshi Muraki

Robot 1-S-5 Enhancing Human Safety and Production Quality in Collaborative Manufacturing via a Human-Robot Collaboration Framework Based on Human Error Recognition
Dewei Zhu, Shuping Xiong

Robot 1-S-6 A Study on Multimodal based Lower Extremity Motion Prediction for Compensation of Control Delay in Exoskeleton Robots
In-seok Heo, Min-seong Gwon, Hyo-eun Yun, Tae-woong Lee, Hyun-soo Lee, Sang-ho Kim

Sustainable Development 2

August 27 (Tue) | 15:00-16:30 | 3F 302

Sustain 2-S-1 Integrating Ergonomic Approaches to Drive Environmental Education: Exploring Innovative Methodologies
Heejung Yim, Seoyoung Kim, Hyunmin Kang, Hyochang Kim

Sustain 2-O-2 NAVIGATING THE 5.0 TRANSITIONS: STRATEGIC MANAGEMENT INSIGHTS FROM THE HF/E PERSPECTIVE
Arto Reiman, Jari Kaivo-Oja, Esa-Pekka Takala, Elina Parviainen

Sustain 2-O-3 SUSTAINABLE HCD AND SUSTAINABLE DEVELOPMENT GOALS: WHERE, HOW, AND WHY
Erminia Attaianese, Emilio Rossi

Sustain 2-S-4 Human Factor and Ergonomic Issues in Autonomous Shipping
Hongtae Kim

VR/AR/Metaverse 6

August 27 (Tue) | 15:00-16:30 | 3F Samda B

VR 6-S-1 ET:ERA - Ergonomic Training: Extended Reality Aided
Norbert Lechner, Lucas Schöffer, Felix Stuerzl, Tanja Zigart

VR 6-S-2 Assessing Spatial Accuracy of HoloLens 2 Gaze Tracking in Real-World Dynamic Behaviors
Yu-Ting Wu, Chien-Chi Chang

VR 6-S-3 ENHANCING ORDER PICKING EFFICIENCY: DISPLAYING ORDER INFORMATION ON AUGMENTED REALITY GLASSES WITH PROPER PRESENTATION
Kai Way Li, Samsiya Khaday, Lu Peng

VR 6-S-4 Optimizing Button Size to Enhance User Experience for Augmented Reality Interactions in Mobile Scenarios
Hojeong Lee, Yeahyoung Jeon, Keisuke Kudo, Paul Ssemakula, Seonghyeok Park, Shuping Xiong

VR 6-S-5 Workload of Virtual Environments – a Literature Review
Peter Nickel, Christian Richter, Friedhelm Nachreiner

ATWAD 1

August 27 (Tue) | 16:45-18:15 | 3F 303A

ATWAD 1-O-1 Participatory Work Design for a new selective collection facility
Vitor Rodrigues, Raoni Rocha

ATWAD 1-S-2 DIGITALIZATION OF JUDICIAL WORK AND OCCUPATIONAL HEALTH: THE EFFECTS OF TECHNOLOGY ON THE SUSTAINABILITY OF ACTIVITY
Noemie Morvan, Marc-Eric Bobillier Chaumon, Gaudart Corinne

ATWAD 1-S-3 Experimental study to establish a psychophysiological index to assess the degree of self-determination of motivation from the perspective of Organismic Integration Theory
Mayuko Takagi, Miwa Nakanishi

ATWAD 1-S-4 Identifying linguistic markers of cognitive heuristics in crisis management exercises
Nolwenn Lherisson, Jean-François Vautier, Marc Lassagne, Laurent Dehouck, Ali Siadat

ATWAD 1-S-5 Hybridizing Change Laboratory and Activity-Centered Ergonomics to strengthen work interventions: the BeWorC model
Vivian Mininel, Adelaide Nascimento, Alain Garrigou, Ildeberto Almeida, Rodolfo Vilela

ATWAD 1-S-6 Evaluating to understand and transform the activity of practitioners: the study of reconfigurations and the lived experience of ergonomists in the evaluation of complex interventions
Camille Jullienne, Fabien Coutarel, Marie-Pierre Poulossier, Gabin Gindro, Rix-Lièvre Géraldine

Healthcare 1

August 27 (Tue) | 16:45-18:15 | 2F 202B

Health 1-O-1 Designing Digital Patient Experience: A Patent Review of Digital Mental Health Interventions
Ranzhi Wei, Tingting Wang

Health 1-O-2 Multi-user Acceptance in Healthcare Technology: Medical Support Perceptions & Interactions Outcomes
Rosemonde Mathieu, Rosemonde Mathieu, Richir Simon, Fleury Sylvain, Noémie Chaniaud

Health 1-O-3 Challenges in Human-Environment Interactions for Healthcare Staff in Mohalla Clinics during COVID-19: An Ethnographic Study
Amarjeet Mohanty, Gourab Kar

Health 1-S-4 Crisis Resource Management – training teams with simulations in the Delivery Room
Tommaso Bellandi, Alessandro Cerri

Health 1-S-5 UX Redesign of a Functional Game for Speech Therapy
Sujin Kim, Jaesun Yu, Eunjin Kwon, Younggeun Choi, Heecheon You, Hyungi Kim, Myoung-Hwan Ko, Seungrok Kang, Yunju Jo, Ra Youn Kim

Health 1-S-6 BALANCE BETWEEN WORK AND LIFE AMONG UNIVERSITY LECTURERS
Lahcene Bouabdellah, Huda Kharbeche, Mohamed Mokdad, Bouhafs Mebarki

Macroergonomics 2

August 27 (Tue) | 16:45-18:15 | 4F 402A

Macro 2-S-1 TOWARDS CONCEPTUALIZING SAFETY CULTURE MATURITY IN MALAYSIA'S OIL AND GAS INDUSTRY: THE ROLES OF PSYCHOLOGICAL SAFETY, CARING MANAGEMENT AND INCLUSIVENESS
Nor Wahiza Abdul Wahat, Ng Yee Guan, Masfarita Mustaffa

Macro 2-S-2 THE STUDY OF ROTATING SHIFT WORK SYSTEMS IN PETROCHEMICAL INDUSTRY
Te-Hung Chen, Sung-Hsin Liu, Mao-Jiun J. Wang

Macro 2-S-3 EXPLORING THE DIVERSITY AND VARIABILITY OF FIREFIGHTERS' WORK SITUATIONS IN FRANCE FROM THE PERSPECTIVE OF SUSTAINABLE WORK
Charlyne Poncato, Willy Buchmann, Catherine Delgoulet

Macro 2-S-4 "YOU FEEL LIKE YOU ARE PLAYING GOD": A WORK SYSTEM ANALYSIS OF PATIENT PLACEMENT STAFF
Hanna J. Barton, Sabrina Adelaine, Olivia Lin, Tyler Houston, Brittney Blaska, Majid Afshar, Brian W. Patterson

Musculoskeletal 3

August 27 (Tue) | 16:45-18:15 | 3F Halla A

Mus 3-O-1 A sEMG analysis to assess the efficiency of a new lorry design for reducing the biomechanical load of waste collection workers
Alessio Silvetti, Lorenzo Fiori, Antonella Tatarelli, Adriano Papale, Tiwana Varrecchia, Giorgia Chini, Alberto Ranavolo, Francesco Draicchio

Mus 3-O-2 Obesity and its influence on manual handling: a systematic review and meta-analysis
Mark Boocock, Yanto Naude, Nicola Saywell, Grant Mawston

Mus 3-S-3 The association of workplace psychosocial factors and low back pain is modified by physical exertion
Ming-Lun Lu, Taylor Shockey, Toni Alterman, Haiou Yang

Mus 3-S-4 PSYCHOSOCIAL HAZARDS PLAY A KEY ROLE IN DIFFERENTIATING WORKERS' MSD RISK IN HIGH-RISK OCCUPATIONS
Jodi Oakman, Wendy A Macdonald, Kate McCredie

Mus 3-S-5 A scoping review of upper limb strength asymmetry for ergonomics
Ryan C. A. Foley, Danny H. Callaghan, Garrick N. Forman, Jeffrey D. Graham, Michael W.R. Holmes, Nicholas J. La Delfa

Mus 3-S-6 Equations for Estimating Dynamic Upper-Limb Exoskeleton Support
Michael Watterworth, Ryuta Dharmaputra, Ryan Porto, Joel Cort, Nicholas La Delfa

Safety and Health 3

August 27 (Tue) | 16:45-18:15 | 3F Samda B

Safety 3-O-1 WHAT IS THE SUSTAINABILITY OF THE OCCUPATIONAL RISK PREVENTION? A GUIDELINE OF 12 CRITERIA
Yann Poley, Chloé Le Bail, Vincent Boccara

Safety 3-O-2 Optimizing Camera Monitor Systems for Enhanced Safety in Mobile Machinery: Insights from Cognitive Work Analysis
Shuaixin Qi, Peter Nickel, Marino Menozzi

Safety 3-O-3 WORK-RELATED STRESS ASSESSMENT AND MANAGEMENT IN AN ITALIAN MUNICIPALITY WORKFORCE
Paola Manfredi, Stefano Porru, Angela Carta

Safety 3-O-4 Ergonomic Approach in Risks Analysis in automotive industry: from failure modes analysis to activity analysis
Amira Omrane, Omar El Adjimi, Taoufik Khalfallah

Safety 3-S-5 Text vs. Video: Uncovering the Impact of Assessment Tools on E- Scooter Risk Perceptions
Yu Gyeong Son, Min Joo Kim, Donggun Park

Safety 3-S-6 Reference Values for Elbow Joint Flexibility in Children
Muhammad Uba Abdulazeez, Maryam Alhefeiti, Shahad Alhammadi, Elbatoul Muhammad, Hajar Alnuaimi, Noora Abdullah, Aminu Abdullahi, Mohamed Afifi, Salma Shaikhoun, Kassim Abdullah

Transport 5

August 27 (Tue) | 16:45-18:15 | 3F 302

Trans 5-S-1 Effect of Seat Heights and Seat Back Angles on Preferred Seat Pan Angles in Highly Automated vehicles
Shabahang Shayegan, Xuguang Wang, Georges Beurier, Lisa Denninger

Trans 5-S-2 AN ERGONOMICS STUDY ON THE RISKS AND DIFFICULTIES FACED BY DRIVERS OF OIL TANK TRUCKS IN THE SAHARA DESERT
Mourad Semmani, Bouhafs Mebarki, Mohamed Mokdad

Trans 5-S-3 The Influence of Advanced Driver Assistance Systems on Fatigue Development among Long-Haul Truck Drivers
Chunxi Huang, Zuyuan Wang, Dengbo He

Trans 5-S-4 Vision and Brain Dynamics: Investigate Controllers' Performance during Emergency Situations in the Next Era of Air Traffic Control
Donglin Li, Fan Li, Yanjie Zhang, Shanshan Feng

Trans 5-S-5 Differences in Fatigue Levels and Driving Performance Based on Circadian Rhythms and Scene Transitions
Pei-Hsuan Wu, Po-Chun Nien, Ting-Hsuan Wang, Yung-Ching Liu

Trans 5-S-6 Identifying an Effective Visual Searching for the Recognition of Extraordinary Events during Acceleration Process of Railway Driving
Daisuke Suzuki

UI/UX 6

August 27 (Tue) | 16:45-18:15 | 3F Halla B

UI/UX 6-S-1 Usability Evaluation of Ergonomically Designed Chairs with a Quadrant-Fluid Seat: Short-Duration and Long-Duration Experiments

Seong Woo Park, Joowhi Rho, Yohan Tak, Wonsup Lee, Chanwook Park

UI/UX 6-S-2 Enhancing Comprehension and Trust in Privacy Policies: A User-Centric Design Approach

Ezekiel Bernardo, Jose Antonio Conde, Raymond Christian Coronel III, Angelo Gabriel Reyes, Caila Jean Yap, Jazmin Tangsoc

UI/UX 6-S-3 Heuristic Principles for Evaluating Auditory Elements in Formative Usability Testing of Medical Devices

Junghoon Shin, Kyungwoo Kwon, Kiechan Namkung

UI/UX 6-S-4 DIGITAL PATIENT EXPERIENCE DESIGN GUIDE: PRELIMINARY RESULTS BASED ON A USER TEST WORKSHOP

Tingting Wang, Dongjuan Xiao, Richard Goossens, Marijke Melles

UI/UX 6-S-5 Anthropomorphic is Always Better? Effects of Financial Robo-advisor Types on Investors' Online Finance Investment Behavior

Xinyue Kang, Fanxuan Wang, Pei-Luen Patrick Rau

UI/UX 6-S-6 Water Drawing Entertainment Robot Using Appropriate Technology Based on Design Thinking -Emotional personification expression-

Yunjeong Song, Jieun Sa, Juseong Kim, Sumin Ko, Kicheol Park

IEA 2024

Lectures

DAY 3
August 28
(Wed)

- Agriculture 1
- ATWAD 2, 3, 4, 5, 6
- Children/Training/Education 4
- Gender 1
- Healthcare 2
- Kansei 1, 2, 3
- Macroergonomics 3
- Musculoskeletal 4, 5, 6, 7
- Resilience 1, 2, 3
- Robotics 2
- Safety and Health 4, 5, 6, 7
- Slips 1, 2, 3
- Space 1
- UI/UX 7, 8, 9
- Potpourri 3, 4

ATWAD Core 1

August 28 (Wed) | 08:30-10:00 | 2F 202A

ATWAD 2-O-1 ACTIVITY-BASED ACCIDENT ANALYSIS: THE CASE OF NITROGENOUS FERTILIZER FACTORY
Raoni Rocha, Francisco Lima, Francisco Duarte

ATWAD 2-O-2 Remote operations in the offshore oil and gas industry: challenges and socio-technical transformations in support of operator activities
Fernando C.S. Matheus, Francisco J.C.M. Duarte, Barbara P. Oggione

ATWAD 2-O-3 Unraveling the Valves: An Ergonomics Journey to Integrate Operational Experience in Offshore Projects
Sarah Correa, Camila Marins, João Marcos Bittencourt

ATWAD 2-O-4 DEVELOPMENT OF TERRITORIAL PROJECTS IN BRAZIL: CONVERGENCES AND CHALLENGES BETWEEN ERGONOMIC INTERVENTIONS IN CAREIRO (AM), MARICÁ (RJ) AND BELO HORIZONTE (MG)
Barbara Oggioni, Ricardo Silveira, William Azalim Do Valle, Moisés Andrade Coelho, Francisco Duarte, Francisco Lima

ATWAD 2-S-5 Contribution of ergonomics to the design of new technologies in the agricultural sector
Fabienne Goutille

Macroergonomics 3

August 28 (Wed) | 08:30-10:00 | 3F 303A

Macro 3-S-1 IDENTIFICATION AND ASSESSMENT OF PSYCHOSOCIAL WORK SYSTEM-RELATED FACTORS AND PROVIDING CONTROL STRATEGIES BASED ON A PARTICIPATORY ERGONOMICS APPROACH IN AN IRANIAN GAS COMPANY
Hamidreza Mokarami, Mojtaba Keshavarz, Rosanna Cousins, Reza Kazemi

Macro 3-S-2 Policy analysis on Human Factors/Ergonomics (HFE) in China: Challenges and Strategic Recommendations in the Context of COVID-19 and Industry 4.0
Yuting Tang, Min Zhang

Macro 3-S-3 RISK CONTROLS FOR PREVENTING WORK-RELATED MUSCULOSKELETAL AND MENTAL HEALTH DISORDERS: A STAMP ANALYSIS OF THE VICTORIAN HEAVY VEHICLE TRANSPORT SECTOR
Bronwen Otto, Sharon Newnam, Victoria Weale, Jodi Oakman

Macro 3-S-4 Exploring Regional Characteristics of Chinese Supplier Trust and Retailer Trustworthiness in Organizational Cooperation
Dian Yu, Pei-Luen Patrick Rau

Musculoskeletal 4

August 28 (Wed) | 08:30-10:00 | 3F Samda A

Mus 4-O-1 STUDY OF THE RELIABILITY OF RAPID UPPER LIMB ASSESSMENT (RULA) AS METHOD OF ASSESSMENT OF SCULPTOR'S POSTURE
Patricia Eugenia Sortillón González

Mus 4-O-2 Occupational hazards factors in dog grooming
Arlen Garagay Plaza

Mus 4-S-3 THE EFFECT OF JOB ROTATION ON ERGONOMIC RISK IN AN ELECTRONICS INDUSTRY: A PILOT STUDY
Jansen Estrazulas, Ioni Correa, Drielle Estrazulas, Fernando Herkrath, Tiago Almudi, Bruno Thurner, Rodrigo Gheller

Mus 4-S-4 Evaluation of changes in joint movement based on calculating correlation anomaly score: Application in the pushing tasks with momentary loss of external force
Kazuki Hiranai, Yasuhiro Hatori, Atsushi Sugama

Mus 4-S-5 The Effects of Delivery Truck Design on Lumbar and Posture Workload Reduction During Loading Tasks: A Comparative Study of Conventional, Low-Entry, and Newly Designed Delivery Trucks
Yong-Ku Kong, Hyun-Ho Shim, Seungjae Son, Suk Lee, Soon-Kyo Lee, U-Ri Chae, Min-Tae Seo, Seoung-Yeon Kim, Hyunji Keum

Mus 4-S-6 Musculoskeletal disorders in nurses: a longitudinal participatory ergonomics intervention
Luke Anthony Fiorini

Potpourri 3

August 28 (Wed) | 08:30-10:00 | 3F 301

Potpourri 3-O-1 PASSIVE INDUSTRIAL EXOSKELETONS AS A POSSIBLE SOLUTION FOR THE PREVENTION OF OCCUPATIONAL MUSCULOSKELETAL DISORDERS IN THE CHILEAN MINING INDUSTRY
Carlos Ibarra, Denys Denis, Élise Ledoux, Vézina Nicole, Juan Carlos Velásquez

Potpourri 3-S-2 A Study on the Impact of Screen Curvature and Control-Display Gain on Fitts' Law Throughput in Large Displays
Nakyung Kim, Suryeon Kim, Young Woo Kim, Yong Gu Ji

Potpourri 3-S-3 From Industrial Giants to Innovation Pioneers: The Impact of SNU Engineering Alumni in Advancing Tech Startup Ecosystem of South Korea
Jongsoo Lee, Janggil Kim, Seunghwan Ko

Potpourri 3-S-4 The Role of Universities in Establishing Ecosystems for Climate Tech Startups: An In-depth Case Study of Seoul National University
Janggil Kim, Jongsoo Lee, Seunghwan Ko

Potpourri 3-S-5 EFFECT OF ASSIST DEVICE ON LUMBAR FATIGUE IN FLEXION TASK
Xiaohan Xiang, Masahiro Tanaka, Satoru Umeno, Yutaka Kikuchi

Potpourri 3-S-6 Unravelling the Impact of Distraction and Advisor Input on Visual Search
Rachel Goh, David O'Hare

Resilience 1

August 28 (Wed) | 08:30-10:00 | 2F 202B

Resil 1-O-1 Standard Operating Procedures Design for Resilient Performance During Healthcare Crises: The Role of Work-As-Done
Angela Weber Righi, Priscila Wachs, Natália Ransolin

Resil 1-O-2 Resilience in Operating Rooms: Examining the Impact of the Built Environment
Alexandra Watral, Simon Gill, Lisa Lim, Bridget Pulos, Bettina Thompson, Jessica McCoy, Meshach Phillips, Ken Potts, Suzanne Young, Jean Guyer, Lindsey Evenson, Renaldo Blocker

Resil 1-O-3 A new lens on systemic accident analysis: bridging work activity analysis and resilience engineering
Raquel Cançado, Rodrigo Arcuri, Eliel Oliveira, Francisco José de Castro Moura Duarte

Resil 1-O-4 Enhancing Organizational Resilience: Integrating Human Factors into Risk Management in the Oil Industry
Douglas Renato de Castro Silva, Gilbert J Huber, Paulo Victor Rodrigues Carvalho, José Orlando Gomes, Julio Cesar Bispo Neves

Robotics 2

August 28 (Wed) | 08:30-10:00 | 3F 303B

Robot 2-S-1 Two Phases Assistive Forces on Elbow Flexion Movement Control with Power-Assisted Device
Ping Yeap Loh, Masashi Naoe, Wen Liang Yeoh, Satoshi Muraki

Robot 2-S-2 The Effects of Impedance Control Variable Stiffness on Muscle Activity During Assisted Elbow Flexion
Yuan Yang, Wen Liang Yeoh, Teerapapa Luecha, Jeewon Choi, Ping Yeap Loh, Satoshi Muraki

Robot 2-S-3 UNDERSTANDING THE USE OF A COBOT THROUGH THE ANALYSIS OF THE PROFESSIONAL GESTURE: VISUAL REFERENCES, POSTURES AND PERCEIVED QUALITY OF WORK
Aude Cuny-Guerrier, Clara Schoose, Sandrine Caroly, Laurent Claudon, Adriana Savescu

Robot 2-S-4 -
-

Robot 2-S-5 Analysis of the relief of the lumbar spine by different back-support exoskeletons during lifting and holding
Jasper Johns

Safety and Health 4

August 28 (Wed) | 08:30-10:00 | 3F Samda B

Safety 4-S-1
Learning from success: building resilient processes through success stories
Yuval Bitan

Safety 4-S-2
Analysis of Factors Influencing Safety Riding Behavior in High School Students in Surabaya
Nadia Aabidah Nur Hafizha, Dyah Santhi Dewi

Safety 4-S-3
-
-

Safety 4-S-4
Work interruptions in digital information work - A scoping review of influencing factors and effects
Vera B. Rick, Alexander Mertens, Verena Nitsch

Safety 4-S-5
Enhancing Safety Through Understanding instead of Blaming Human: A decade Review in Process Industries
Salman Nazir, Waddah S. Ghanem Al Hashmi

Safety 4-S-6
ADDRESSING HUMAN FACTORS CHALLENGES IN OIL AND GAS INDUSTRY IN DESIGN AND CONSTRUCTION PHASES: LESSONS AND RECOMMENDATIONS
Abdul Harizul Mustaqim Abdul Karim, Masfarita Mustaffa, Toby Garner, Simon Layton

Slips 1

August 28 (Wed) | 08:30-10:00 | 3F 302

Slips 1-O-1
MEASURING REAL-WORLD SLIP, TRIP AND FALL RISK
Tilak Dutta, Davood Dadkhah, Hamed Ghomashchi, Shreya Anand, Elizabeth Johnson

Slips 1-O-2
EFFECTS OF FOOT-FLOOR FRICTION CONDITIONS AND GAIT ON SLIP- OR TRIP-INDUCED FALLS DURING WALKING: A COMPUTATIONAL STUDY USING A NEUROMUSCULOSKELETAL MODEL
Takeshi Yamaguchi, Naoto Izumi, Toshiaki Nishi, Takashi Yoshida, Kei Masani

Slips 1-S-3
Recognition of Physiological Patterns during Activities of Daily Living Using Wearable Biosignal Sensors
Nicholas Cartocci, Antonios E. Gkikakis, Jesús Ortiz, Darwin Caldwell

Slips 1-S-4
Advancing Footwear Safety: A Human-Centered Approach to Slip Resistance Evaluation Using RampLab Technology
Sophia Yue Li, Sanja Hulec, Ali Shirzadeh

Slips 1-S-5
Enhancing Worker Safety: Real-time Automated Detection of Personal Protective Equipment to Prevent Falls from Heights at Construction Sites Using Improved YOLOv8 and Edge Devices
Doil Kim, Shuping Xiong

Slips 1-S-6
Ice grip performances of rubbers and polymer fibers as shoe sole on dry and wet ice surfaces
Kei Shibata, Akihiro Ohnihsi, Satoshi Asahina, Takeshi Yamaguchi

Space 1

August 28 (Wed) | 08:30-10:00 | 4F 401B

Space 1-S-1 Eye-Tracker-Enabled Real-Time Decision Support System in a Simulated Remotely Piloted Aircraft Environment
Hyun-Gee Jei, Mustafa Demir, Farzan Sasangohar

Space 1-S-2 Analyzing key factors leading to Air Force pilot fatigue based on the Department of Defense's Human Factors Analysis and Classification System (DoD-HFACS) framework
Jungki Kim, Tiju Baby, Seul Chan Lee

Space 1-S-3 Research on effective characteristic indicators of pilot fatigue monitoring based on fNIRS
Jiaying Zou, Qi Liu, Runhao Li, Pengyu Luo, Lijing Wang, Haixin Xu, Yanzeng Zhao

Space 1-S-4 Stress Management Training: Enhancing Confidence and Stress Handling in Air Traffic Control College Students
Andrew Dattel, Michael McCormick, Haroon Jamanzi, Jae Beum Lee, Maaliyah Bowden, Rajan Maroju, Mohammed Viqer, Aman Shah, Rochelle Potdar, Dongguang Yu, Pranet Shedge, Alexander Belluccio, Jamie Barrett

Space 1-S-5 Regulation of arousal via real-time visual feedback improves human performance: A Novel Interface Design Approach and Its Experimental Validation
Yanzeng Zhao, Keyong Zhu, Haixin Xu, Pengyu Luo, Lijing Wang

Space 1-S-6 Prediction of human local skin temperature under hypobaric hypoxia indoor environments using a self-adaptive thermal manikin
Jiachen Nie, Qing Zhang, Biyun Zhou, Li Ding, Yiran Chen, Weijia Sheng

ATWAD 3

August 28 (Wed) | 10:15-11:45 | 2F 202A

ATWAD 3-S-1 The meaning of workplace misappropriation: when Activity-based Flexible Office doesn't work
Danie Jon, Pascal Béguin, Nadia Heddad

ATWAD 3-S-2 Building an Operational Experience Feedback in a Thermal Power Plant
Vitor Fernando Pereira, Mateus Abraçado, Raoni Rocha, Adson Resende

ATWAD 3-S-3 Safety issues and strategies for outdoor activities. A general model based on guided mountaineering preparation
Antoine Girard, Sandrine Caroly, Pierre Falzon

ATWAD 3-S-4 Debating Safety Culture: A Divergence-Sensitive Multi-thematic Operational Definition
Mateus Abraçado, Francisco Lima, Raoni Rocha, Vitor Pereira, Eliel Prueza, Francisco Duarte

ATWAD 3-S-5 The Contribution of Permits-To-Work for Safety
Vitor Fernando Pereira, Rodrigo Arcuri, Lucas Farah, Mariana Martins, Adson Eduardo Resende

ATWAD 3-S-6 A Framework to Analyze Productive and Constructive dimension of Collaborative Activities during Ergonomics' Simulation
Flore Barcellini

Children/Training/Education 4

August 28 (Wed) | 10:15-11:45 | 3F 303B

CTE 4-S-1 DEVELOPMENT OF INTEGRATED ERGONOMICS INTERVENTION FOR EMPLOYEE WITH SIGNS AND SYMPTOMS OF MUSCULOSKELETAL DISORDERS: HEALTH BELIEF MODEL AND ADDIE AS USEFUL TOOLS
Nor Haslina Mohd, Ng Yee Guan, Shamsul Tamrin, Anita Abdul Rahman, Hezery Harun

CTE 4-S-2 Advancing to Anesthesia Resident Training on Situational Awareness: a pilot study
Carolina Daza Beltrán, Angélica Paola Fajardo Escolar, Martha Patricia Caro Gutierrez, Daniel Ricardo Suarez Venegas

CTE 4-S-3 Identification of technical and ergonomic requirements for full-scale simulation with extracorporeal membrane oxygenation
Steffen Kuklinski, Maximilian Kehmann, Simon König, Claus Backhaus

CTE 4-S-4 Enhancing Novice Drivers' Safety in SAE Level-2 Vehicles through Hazard Perception and ADAS-limitation Training
Zuyuan Wang, Wenxin Shi, Chunxi Huang, Haosong Xu, Dengbo He

CTE 4-O-5 Micro-Credentials Framework Design for Ready-to-Use Industrial Engineering Internship Students and Fresh Graduates
Twin Yoshua R. Destyanto, Chandra Dewi Kurnianingtyas

CTE 4-S-6 ACADEMIC OR 'ZOOMBIE'? CHARACTERIZING SLEEP QUALITY, WORK AND LIFESTYLE BEHAVIOURS AMONG A COHORT OF SOUTH AFRICAN ACADEMIC STAFF DURING THE COVID-19 PANDEMIC
Sarah-Ann Le Grange, Andrew Todd, Jonathan Davy

Musculoskeletal 5

August 28 (Wed) | 10:15-11:45 | 3F Halla A

Mus 5-O-1 The Influence of Backpack Weight on Student Posture and Body Discomfort
Ma Janice Gumasing

Mus 5-O-2 Prevalence of Musculoskeletal Disorders among Seamstresses Workers: A Rapid Upper Limb Assessment
Ma Janice Gumasing

Mus 5-S-3 Non-powered Chair Assisting Standing and Seating
Eunchae Lee, Kyu Hyoung Cho, Jae Hoon Cha, Hye Won Song, Kicheol Pak

Mus 5-S-4 The exploration of hand posture and force prediction using surface electromyography and an artificial neural network
Mengcheng Wang, Alan Barr, Hao Fan, Carisa Harris Adamson

Mus 5-S-5 Enhancing Arm-Support Exoskeleton Design for Improved Agricultural Efficiency: Investigating Optimal Support Angles
Byungkyu Choi, Jaehyun Park

Mus 5-S-6 Effect of Exoskeleton Devices on Work-Related Musculoskeletal Disorders (WMSDs) Among Healthcare Workers: A Scoping Review
Grace Gao, Billy So, Andy Cheng, Siu Shing Man, Shamay Ng

Resilience 2

August 28 (Wed) | 10:15-11:45 | 2F 202B

Resil 2-S-1 Success factors and difficulties in the adaptations related to the COVID-19 crisis at the hospital
Nora Oufi, Cecilia De La Garza, Adelaide Nascimento

Resil 2-S-2 Predicting Situations that Require Resilient Performance and Deriving Competence to Strengthen in Preparation: An Analysis Based on the Aviation Safety Reporting System (ASRS)
Mako Ono, Miwa Nakanishi

Resil 2-S-3 A Proposal for a Leading Indicator to Diagnose the Level of "Productive Safety" Practices: An Empirical Study of Global Chemical Companies
Yuta Matsushita, Yoshiki Tominaga, Miwa Nakanishi

Resil 2-S-4 A context-sensitive approach for integrating Fuzzy Set Theory and the FRAM
Luiza dos Santos, Rodrigo Arcuri, Raquel Cançado, Catherine Burns, Paulo Victor de Carvalho, Mario Vidal

Resil 2-S-5 -
-

Resil 2-S-6 RESILIENCE IN HEALTHCARE SYSTEMS: COPING WITH DISASTERS OR DEAL WITH EVERYDAY FUNCTIONING?
Paulo Carvalho, Alessandro Jatoba

Safety and Health 5

August 28 (Wed) | 10:15-11:45 | 3F Samda B

Safety 5-O-1 Development and Ergonomic Evaluation of a Mobile Chair for Bathing and Hygiene: Health, Comfort, and Safety
Eugenio Merino, Diogo Costa, Felipe Goulart, Cesar Giracca, Giselle Merino, Carolina Rosa, Joanna de Athayde

Safety 5-S-2 Effects of Noise on the Cognitive Performance of Undergraduate Students
Ma Janice Gumasing, Ma Janice Gumasing

Safety 5-S-3 Evaluation of Respirable Dust Exposure to the Workers in Rice Mills
Krishna N Dewangan, B Surya Kumar Chhetry

Safety 5-S-4 The Strength of Sea Women: Understanding Stress and Resilience Among the Haenyeo in Jeju Island
Junyoung Kim

Safety 5-S-5 NO MORE OVERLOOKING THE FARMERS. CONTRIBUTION OF ERGONOMICS TO THE PREVENTION OF PESTICIDES RISK IN THE WINE INDUSTRY
Fabienne Goutille

Safety 5-S-6 Team communication analysis model for human reliability analysis in nuclear power plant
Shelly Salim, Seon-Yeong Yeom, Dong-Han Ham

Slips 2

August 28 (Wed) | 10:15-11:45 | 3F 302

Slips 2-O-1 Wearable Slip Measurement Insole
Samuel Dallain, Alexis Lussier Desbiens

Slips 2-O-2 A NECESSARY INTERVENTION: CHALLENGING THE PERCEIVED LIMITATIONS OF A NEW NATIONAL SLIP RESISTANCE STANDARD
Richard Bowman

Slips 2-S-3 MEASUREMENT OF GROUND REACTION FORCE, STRIDE LENGTH, AND TOE CLEARANCE USING A SENSOR SHOE SYSTEM EQUIPPED WITH TRIAXIAL FORCE SENSORS AND INERTIAL SENSOR
Hide Matsumoto, Masaki Tomosada, Toshiaki Nishi, Yoshihiro Sasaki, Takeshi Yamaguchi

Slips 2-S-4 GAIT ANALYSIS OF YOUNG AND OLDER ADULTS USING A SENSOR SHOE SYSTEM
Toshiaki Nishi, Hide Matsumoto, Masaki Tomosada, Ryota Sakurai, Yoshihiro Sasaki, Takeshi Yamaguchi

Slips 2-S-5 Berg balance scale as label of postural balance in elder adults
Ornwipa Thamsuwan, Yasmine Gherbi

UI/UX 7

August 28 (Wed) | 10:15-11:45 | 4F 402A

UI/UX 7-S-1 Selection of Target Expansion Forms and Sizes in GUI Mouse Pointing Tasks Based on Fitts' Law
Yu Zhu, Xiaohan He, Ronggang Zhou

UI/UX 7-S-2 Short usability scales: scoping review, readability considerations, and future directions
Victor Cornet

UI/UX 7-S-3 Performance Comparison and Evaluation of Autonomous Vehicle Pedal Systems
Ji Won Park, Young Woo Kim, Sol Hee Yoon

UI/UX 7-S-4 EFFECTS OF GAME DESIGN CHOICES ON PLAYER EXPERIENCE IN VIDEO GAMES: A SYNTHESIS OF FOUR META-ANALYSES ON PRESENCE, IMMERSION, ENJOYMENT AND FLOW
Loïc Caroux, Morgane Pujol, Céline Lemercier

UI/UX 7-S-5 Quantitative Evaluation of Vacuum Cleaner Maneuverability
Misol Kim, Hyolim Kim, Jinhyouk Shin, Jungwan Ryu, Pilhyun Yoon

UI/UX 7-S-6 Designing the user interface for an elderly-friendly taxi-hailing mobile app: a preliminary study
Yura Kim, Dongha Kim, Saeyeon Kim, Yeonji Kim, Gyuhee Kim, Chaewon Park, Woojoo Kim

ATWAD 4

August 28 (Wed) | 13:15-14:45 | 2F 202A

ATWAD 4-O-1 Techno-solutionism and sustainable development: the activity analysis as a way of reintroducing the primacy of the human over technology
Julie Lassalle, Fabienne Goutille and Leïla Boudra

ATWAD 4-O-2 "We Aren't a Blank Page Waiting to Be Filled In": The Activity's Viewpoint and Its Contributions to the Design of Future Transport Automation
Daniel Silva, Liliana Cunha

ATWAD 4-O-3 The collective in the order picking activity: an ignored dimension source of constraints and resources
Christophe Mundutéguy, Maria Sol Perez Toralla

ATWAD 4-O-4 Professional transitions of entrepreneurs of small construction companies facing to environmental issues
Pierre Royon, Pascal Béguin, Christelle Casse

ATWAD 4-S-5 Two meanings of workplace flexibility and their effect on activity: Modularity and Multifunctionality
Eva Goulois, Danie Jon, Nadia Heddad, Pascal Béguin

ATWAD 4-S-6 Biomechanical risk factors of the upper and lumbar limb associated with handling loads and repetitive movements in deburring tasks in a warehouse in the cites of Cali, Armenia and Barranquilla
Sandra Milena Muñoz Nunez, Juan Carlos Velasquez

Kansei 1

August 28 (Wed) | 13:15-14:45 | 3F 301

Kansei 1-O-1 The Impact of Streamer's Commentary on the Emotional Engagement of Horror Game Playthroughs
Panasit Chaiyanan, Sakol Teeravaranyou.

Kansei 1-O-2 Research on the emotional design of health management system interface based on user experience
Mingxi Shi, Kyoungyong Lee, Qihan Guo

Kansei 1-S-3 Personality-Based Video Game Preference of Young Japanese People
Taisei Inoue, Takashi Toriizuka, Norimasa Yoshida

Kansei 1-S-4 Retail UX: An Anthology of Sensory Experience in Physical Retail from the Perspective of User-Centered Design
Paulo Eduardo Tonin, Elton Nickel, Flavio Santos

Kansei 1-S-5 TURNING ONIONS INTO STIRFRY: DESIGN AGAINST FRUSTRATION AND TOWARD JOY FOR OLDER ADULTS
Chorong Park, Rua Williams

Musculoskeletal 6

August 28 (Wed) | 13:15-14:45 | 3F Halla A

Mus 6-S-1 MAXIMUM ACCEPTABLE WEIGHT OF LIFT AMONG THAI YOUTH AGE GROUP BETWEEN 18-24 YEARS OLD USING PSYCHOPHYSICAL APPROACH
Teeraphun Kaewdok, Nutsuda Suksanga, Naris Charoenporn, Manida Swangnetr Neubert, Chanon Kongkamol, Chanya Jiemjai, Ekarat Sombatsawat

Mus 6-S-2 COMFORTABLE HIP AND SHOULDER ANGLES FOR BICYCLE DESIGN
Arunachalam Muthiah, Sharad Shetty, Varshin Vala, Seul Chan Lee

Mus 6-S-3 Ergonomic risk factors caused by Manual Material Handing in logistics operations in the automotive industry in Northwest México
Karla Lucero, Enrique De La Vega, Enrique Xavier De La Vega Carrillo

Mus 6-S-4 Suggestion for optimal camera location in monocular 3D markerless motion capture: focusing on accuracy comparison with marker-based model
Taeu Kim, Myung-Chul Jung, Gayul Park, Seung-Min Mo

Mus 6-S-5 PREVALENCE AND ASSOCIATED FACTORS FOR MUSCULOSKELETAL DISORDERS AMONG FARMWORKERS IN THAILAND
Ekarat Sombatsawat, Wattasit Sriwong, Teeraphun Kaewdok

Mus 6-S-6 The Cognitive Impact of Back-Support Exoskeleton Use on Hazard Identification and Brain Activation
Hyewon Seo, Shiva Pooladvand , Sogand Hasanzadeh, and Behzad Esmaeili

Potpourri 4

August 28 (Wed) | 13:15-14:45 | 4F 402A

Potpourri 4-S-1 A Neuroergonomic Meta-Analysis of the Mental Resource
Salim Mouloua, Tyler Shaw

Potpourri 4-S-2 Effects of floor-seated, chair-seated and standing work postures on musculoskeletal discomfort and computer-typing performance
Aamir Sohail Ashraf, Gourab Kar

Potpourri 4-S-3 Exploring the Impact of Integrating Artificial Intelligence into Design Thinking Framework
Seoyoung Kim, Heejung Yim, Hyunmin Kang, Hyochang Kim

Potpourri 4-S-4 Accuracy for tactually perceived location of vibration stimuli applied to the palm
Keito Okuda, Kentaro Kotani, Satoshi Suzuki, Takafumi Asao

Potpourri 4-S-5 Employee participation and non-participation in implementation of Activity-based Flexible Offices
Maral Babapour Chafi, Annemarie Hultberg, Melina Forooraghi

Resilience 3

August 28 (Wed) | 13:15-14:45 | 2F 202B

Resil 3-O-1 Time management for reliability in signal station: articulate between surveillance task and identification sub-task
Titouan Le Pelley Fonteny, Catherine Delgoulet, Annick Durny

Resil 3-O-2 EVALUATION AND ANALYSIS OF DISASTER RESPONSE EXERCISE AT A LARGE HOSPITAL
Nur Gundogdu, Taro Kanno

Resil 3-S-3 Sources of pandemic resilience within airport crisis management teams
Alexander Nieuwborg, Ed Oomes, Marijke Melles, Suzanne Hiemstra-van Mastrigt, Sicco Santema

Resil 3-S-4 Burning Man as an Exemplar of Sustained Multi-Level Resilience
Ken Catchpole

Resil 3-S-5 The adaptive approach to construction safety: why and how frontline construction workers adapt their performance
Clinton Horn, Patrick Waterson, Gyuchan Thomas Jun

Resil 3-S-6 Characterizing Team Resilience Using Treasure Hunt Game
Yuto Miyake, Haruka Yoshida, Taro Kanno, Daisuke Karikawa, Satoru Inoue, Kohei Nonose

Safety and Health 6

August 28 (Wed) | 13:15-14:45 | 3F Samda B

Safety 6-S-1 Study on EEG Characteristics of Different Personality Errors under Time Stress
Qianxiang Zhou, Muhua Xu, Zhongqi Liu

Safety 6-S-2 FACTORS ASSOCIATED WITH HEAT STRESS AND RENAL CHANGES AMONG OPERATORS WORKING IN HOT INDOOR ENVIRONMENT AT A STEEL MANUFACTURING INDUSTRY IN SHAH ALAM, SELANGOR
Ummi Rashidah Mahamud, Yee Guan Ng, Azalea Hani Othman, Anita Abdul Rahman

Safety 6-O-3 Evaluating the Potential Field-based Car-Following Model's Response to Aggressive Driving Behavior in Mixed Traffic Flow
Seunghwan Kim, Park Juneyoung

Safety 6-S-4 Enhancing Motorcycle Commuting Safety through Community Engagement: A Case Study in Pulau Pinang, Malaysia
Lilis Surienty, Chin Chin Tsun, Ambareen Khan

Safety 6-O-5 Determining the Effect of External Non-Driving Factors on Long Distance Trucking: A Cognitive Study
Klint Allen Mariñas, Charmine Sheena Saflor, Kholeen Claire Santos, Michael Young

Safety 6-S-6 How nuclear facilities dismantling creates new challenges for Human and Organizational Factors in design
Guillaume Hernandez, Catherine Laurent, Emmanuelle Frelin, Jean-François Vautier

Slips 3

August 28 (Wed) | 13:15-14:45 | 3F 302

Slips 3-S-1 Further work with the Slider 55 Pendulum test.
Stephen Thorpe, Keith Palmer, Simon Hall, Ben Powers, Ian Roberts

Slips 3-S-2 Slips, Trips and Falls. A Novel Accelerated Wear Method
Stephen Thorpe, Ben Powers, Steven Rawden, John Adams

Slips 3-S-3 A Skeleton-based Real-time Fall Detection System for Older People Using a Single RGB Camera and Edge Computing
Xiaoqun Yu, Yafeng Niu, Xiaozhou Zhou, Wenyu Wu, Chengqi Xue, Shuping Xiong

Slips 3-S-4 BGHW Warehouse Simulation – Virtual Reality Supports Prevention of Slip, Trip and Fall (STF) Accidents
Christoph Wetzel

UI/UX 8

August 28 (Wed) | 13:15-14:45 | 3F Halla B

UI/UX 8-O-1 Integrating Cognitive Ergonomics and User Interface Enhancements for Efficient Appointments and Elevated Patient Satisfaction in Metro Manila Hospitals
Justine Bless Costales, Aaron Raphael Ricardo, Sheila Mae Carungay

UI/UX 8-S-2 Usability of bed movers in hospitals
Niels Hinricher, Chris Schröer, Hendrik Ludewig, Lorenz Müller, Claus Backhaus

UI/UX 8-S-3 Privacy and Consent in Digital Interfaces: A Literature Review
Fabiana França, Claudia Mont'Alvão

UI/UX 8-S-4 -
-

UI/UX 8-S-5 THE INFLUENCE OF PAST EXPERIENCE WITH WRISTBANDS AND EXPOSURE LENGTH ON PERCEIVED USABILITY OF WRIST-WORN SENSORS BY NURSES
Adviye Irem Yuceel, Carolina Carvalho Manhães Leite, Deborah McCarter, Mark A. Johnson, Morgan Blankenship, Alexandra Chronopoulou, Abigail Wooldridge

UI/UX 8-S-6 Usability Evaluation of the Fuel Management System for a Flag Carrier Airline
Alma Maria Jennifer Gutierrez, Macario Cordel, Christine Diane Ramos, Merlin Teodosia Suarez

ATWAD 5

August 28 (Wed) | 15:00-16:30 | 2F 202A

ATWAD 5-O-1 Putting the Human back in the system: A Cybersecurity Activity System Modeling
Ayoub Bourhim, Julie Lassalle, Laurent Guillet, Christine Petr

ATWAD 5-O-2 Stereotype strength: Psychological, physical and learning effects. Areas for further research
Errol Hoffmann, Mengqi Ding, Chuyu Huang, Huiying Wen, Xiaoyu Li, Siushing Man, Alan Chan

ATWAD 5-S-3 Approaches for the integration of operational experience in the design of standard interfaces for FPSO control systems
Anderson Nogueira de Lima, Luciano do Valle Garotti, Carolina Maria do Carmo Alonso

ATWAD 5-S-4 DECISIONS IN DECOMMISSIONING PROJECTS: BRINGING HEALTH AND SAFETY CLOSER TO FUTURE WORK
Laís Bubach Carvalho Simao, Beatriz Bandeira dos Santos, Carolina Mathias Esporcatte, Tomas Pinho Ferreira, Eduardo Ribeiro Nicolosi, Claudio Violante Ferreira, Marcelo Igor Lourenço de Souza, Francisco José de Castro Moura Duarte

ATWAD 5-S-5 LEVERAGING ACTIVITY THEORY AND FUNCTIONAL MODELLING FOR OPTIMIZING HUMAN-PRODUCT INTERACTIONS IN XR ENVIRONMENTS
Francisco Garcia Rivera

ATWAD 5-S-6 The Offshore Well Constructor: Cross-Cooperation and Trust Building in High-Risk Industry.
Eliel Oliveira, Francisco Lima

Kansei 2

August 28 (Wed) | 15:00-16:30 | 3F 301

Kansei 2-O-1 Exploring How Horror Design Elements Impact the Perception of Game Difficulty
Panasit Chaiyanan, Sakol Teeravaranyou

Kansei 2-S-2 Classifying Psychophysical Dimensions of Tactile Perception
Junseong Park, Sung H. Han, Kimin Kwon, Hankyoul Kim

Kansei 2-S-3 FAKE FEEDBACK FOR INCREASING SELF-PERCEPTIONS OF ALTRUISM AND SYMPATHY TO PROMOTING PRO-ENVIRONMENTAL BEHAVIOR: PRELIMINARY EXPERIMENT FOR DESIGNING INTERVENTION
Kimi Ueda, Kazuto Hashimoto, Hirotake Ishii, Hiroshi Shimoda

Kansei 2-S-4 -
-

Kansei 2-O-5 Investigating the Impact of Vibrotactile and Color Visual Stimuli on Human Mental Stress Responses after Shock Scenarios
Asuka Hirata, Daniel Horst, Hayato Uchida, Takeo Kato

Safety and Health 7

August 28 (Wed) | 15:00-16:30 | 3F Samda B

Safety 7-O-1 Performance Comparison of Phase-Change Material-Based Cooling Vests Potentially for Firefighting
Rensheng Deng, Yuan Xing Xu, Chun Hwee Chin, Saravana Kumarasamy, Meng Fai Ying

Safety 7-S-2 -
-

Safety 7-S-3 Using Data Mining Approaches to determine interacted combination effects on accidents and enhance driver safety policy
Nuri Park, Juneyoung Park, Kyeongju Kwon, Samgyu Yang

Safety 7-S-4 Human Factors and Ergonomics in Human-Robot Interaction for Public Spaces Facilitate Perceived Safety
Peter Nickel, Anna-Maria Meer, Björn Kahl

Safety 7-S-5 Psycho-social impact of the disaster on employees in terms of occupational health and safety: The case of Turkey
Serpil Aytaç, Husre Gizem Akalp, Kadriye Burcu Ongen Bilir, Merve Mamaci

Safety 7-S-6 Development of the Real-Time Monitoring System of OWAS Method
Masataka Ohashi, Yoshiyuki Tsuda, Yoshitomo Takahashi, Takao Shinkawa

Agriculture 1

August 28 (Wed) | 16:45-18:15 | 3F Samda A

Agr 1-O-1 Design and regulation as a chain of determinants of pesticide exposure situations during the use of sprayers
Marion Albert, Alexandre Charbonneau, Alain Garrigou

Agr 1-O-2 ENHANCING PRODUCTIVITY AND SAFETY: ERGONOMIC SOLUTIONS FOR BRAZILIAN ORANGE MANUAL HARVESTING
Carolina Alonso, Anael Alves, Flávio Chedid Henriques, Thiago Medeiros Fonseca, Rodrigo Caride Gomes, Vicente Nepomuceno

Agr 1-S-3 Ergonomic Evaluation of Alternative Compact Bed Plasticulture for Fresh Market Vegetables
Fadi Fathallah, Sanjay Shukla, Lena Nguyen, Vijay Santikari, Kurtis Gurley, Kira Hansen, Gregory Hendricks

Agr 1-S-4 Status of Musculoskeletal Disorders in Korean Farmers and Ergonomic Work Improvement
Eun Ha Kim, Jae Hee Park

Agr 1-S-5 Ergonomically Related Injuries in California Farms
Ernesto Mendez, Fadi Fathallah, Heejung Bang, Farzaneh Khorsandi

ATWAD 6

August 28 (Wed) | 16:45-18:15 | 2F 202A

ATWAD 6-O-1 Task adaptation of protective clothing against pesticides: Input of work activity analysis
Caroline Jolly, Anouk Aubert-Simard, Manon Pierdet, Alessia Negrini, Samantha Vila Masse, Ludovic Tuduri

ATWAD 6-S-2 ASSESSING SAFETY CULTURE IN THE OIL AND GAS INDUSTRY: THE CASE OF AN OIL REFINERY
Letícia Mattos, Fausto Mascia, Francisco Duarte

ATWAD 6-S-3 Ergonomie de vie des éleveurs nomades en Mongolie : place de la technologie face aux Troubles PsychoSociaux
Isabelle Lacharme

ATWAD 6-S-4 THE DIFFERENT MANIFESTATIONS OF ORGANIZATIONAL SILENCE IN AN OIL REFINERY
Letícia Mattos, Maria Luiza Fonseca, Raoni Rocha, Francisco Duarte

Gender 1

August 28 (Wed) | 16:45-18:15 | 3F 302

Gender 1-O-1 Beyond Techno-Deterministic Perspectives: Exploring Technological Change from a Gender Lens for Sustainable Work in Industry 4.0
Sarah Maggioli, Liliana Cunha

Gender 1-O-2 Gender differences in work-related acute spine injuries in Italy
Claudia Giliberti, Silvana Salerno

Gender 1-S-3 Exploring Factors Influencing Faculty Performance in Philippine Higher Education: A Cognitive Assessment
Charmine Sheena Saflor, Klint Allen Mariñas, Jazmin Tangsoc, Ezekiel Bernardo, Michael Young

Gender 1-S-4 Understanding Career Decision-Making Processes of Female Ph.D. Researchers in the Field of Engineering by Trajectory Equifinality Approach
Reika Abe, Kimi Ueda, Hirotake Ishii, Hiroshi Shimoda

Healthcare 2

August 28 (Wed) | 16:45-18:15 | 3F Samda B

Health 2-O-1 Effect of the shape of a distal forearm support on the rotational range in surgical arm assistance systems
Ferdinand Langer, Silas Schlenk, Thomas Maier

Health 2-O-2 USE OF MANUAL PATIENT HANDLING EQUIPMENT IN A LARGE HOSPITAL: PRELIMINARY RESULTS OF A SURVEY
Angela Carta, Daniela Olivato, Mariagrazia Lourdes Monaco, Katsiaryna Absekava, Alessandro Andreoli, Stefano Porru

Health 2-S-3 Shaping future Home Healthcare through Human-Centred Foresight: the Optimens case study
Federica Masci, Mattia Pistolesi, Rossella Onofrio, Dario Menicagli, Olga Puccioni, Angelo Rondi

Health 2-S-4 Action forces and lumbar load when pulling and pushing hospital beds - a comparative study
Claus Backhaus, Niels Hinricher, Lorenz Müller, Chris Schröer, Elisabeth Ibenthal

Health 2-S-5 "Charting the Future: Integrating Human-Centered Design and Strategic Foresight in Home Care Research"
Federica Masci, Mattia Pistolesi, Gabriele Frangioni, Federico Fraboni, Elisa Fabbri, Angelo Rondi

Health 2-S-6 Virtual care clinicians' needs and preferences for a clinical decision support tool to detect deterioration
Adeola Bamgboje-Ayodele, Adrian Boscolo, Mitchell Burger, Steven McPhail, Melissa Baysari

Kansei 3

August 28 (Wed) | 16:45-18:15 | 3F 301

Kansei 3-S-1 Soundscape Assessment for Indoor Acoustic Environments in Electric Vehicle Cabins
Jaeyun Jeon, Jooyoung Hong, Geonhee Kim, Wanki Moon

Kansei 3-S-2 Using Kansei Engineering Method to Develop Night-Time Wrong-Way Information System
Hojae Kim, Nuri Park, Seunghwan Kim, Yeji Sung, Hyeonseo Kim, Juneyoung Park

Kansei 3-S-3 Development of Color Queue Creation Task and its Metrics for Divergent Thinking Assessment
Taiki Matsunaga, Ryunosuke Fukada, Kimi Ueda, Hirotake Ishii, Hiroshi Shimoda

Kansei 3-S-4 RESPONSIBILITY ATTRIBUTIONS OF BILINGUALS IN HUMAN-AI TEAMS
Dian Yu, Pei-Luen Patrick Rau, Liang Ma

Kansei 3-S-5 Deciphering Eye Fixation Patterns Across Varied Multiple Choice Question Types and Difficulty Levels
Sia Moon, Sujin Seong, Byungkyu Choi, Hyun K. Kim, Jaehyun Park

Musculoskeletal 7

August 28 (Wed) | 16:45-18:15 | 3F Halla A

Mus 7-S-1 Comparison of different floor-dragging methods with heavy load
Junjie Deng, Hong-In Cheng

Mus 7-S-2 Development of a Cumulative Shoulder Workload Assessment Model
Jeong-Bae Ko, Kyeong-Hee Choi, Jae-Soo Hong, Yong-Ku Kong

Mus 7-S-3 Association of physical and psychosocial risk factors and musculoskeletal discomfort of Filipino Industrial Engineering Students in the Remote Learning Set-up
Benette Custodio

Mus 7-S-4 Investigation of ergonomic risk-assessment at manual forestry work – deriving a reference-concept
Oliver Brunner, Alexander Mertens, Verena Nitsch

Mus 7-S-5 Ergonomic Evaluation of Shoulder-Support Exoskeleton Design Using Musculoskeletal Simulation: Pilot Study
Soyun Jung, Minjae Kim, Jongbae Park, Hoon Kim, Heecheon You

Mus 7-S-6 A study on the effects of postural biofeedback versus muscle biofeedback in smartphone users with chronic neck pain
Grace Szeto, Rufina Lau, Jay Dai, Sharon Tsang

UI/UX 9

August 28 (Wed) | 16:45-18:15 | 3F Halla B

UI/UX 9-O-1 COMPARISON OF PAIN, STRESS AND PHYSICAL ACTIVITY LEVELS OF ACADEMIC STAFF ACCORDING TO ERGONOMIC ARRANGEMENT IN OFFICES
Gokcen Akyurek, Betul Ustun

UI/UX 9-S-2 Effective Design of Gauge Cluster for Improving Information Recognition
Sungju Kim, Seeung Oh, Youngjae Im

UI/UX 9-S-3 Grammatical error detection is not influenced by gaze direction in Japanese language
Yuki Kobayashi, Shuya Kubota, Amar Devadas, Motoharu Takao

UI/UX 9-S-4 Empathy at the Nexus: Bridging User-Centered Design, Human-Centered Design, and Human-Centered Artificial Intelligence
Claudia Mont'Alvão

UI/UX 9-S-5 Research of In-Vehicle Activities in Future Mobility Cabin Using Eye-Tracking Data
Kyuhyoung Cho, Youngki Kim, Juseong Kim, Hyunsoo Kim, Hyunmin Kang, Kicheol Pak

Lectures

DAY 4
August 29
(Thu)

- Aerospace 1
- Building and Construction 1, 2
- Design 1, 2, 3, 4
- Gender 2
- Healthcare 3, 4, 5, 6
- Manufacturing 1, 2, 3
- Musculoskeletal 8
- UI/UX 10
- WWCS 1
- Potpourri 5

Aerospace 1

August 29 (Thu) | 08:30-10:00 | 3F 303A

Aero 1-O-1 Learning from the Skies: Assessing the Critical Decision-Making Common Ground in Aviation Emergencies
João Guilherme Fowler, Bemildo Alvaro Ferreira Filho, Moacyr Machado Cardoso Júnior

Aero 1-S-2 Implementation of Wearable Technology in Aerospace Production Systems
Dongjoon Kong, Al Salour

Aero 1-S-3 Human-Systems Integration and Distributed Expertise Coordination for Humanitarian Operations
Barrett Caldwell, Cioli Barazandeh, Erik Prytz, Jens Alfredson

Aero 1-S-4 How maintenance can be better designed to avoid Human Errors: a case study in the helicopter industry as an introduction
Fabien Bernard, Raphael Paquin, Lorrys Berthon, Fabio Lillo

Aero 1-S-5 Characterising Cabin and Cockpit crew Flight and Duty Period (FDP) demands and the prevalence of sleepiness, fatigue, and insomnia in short-haul operations
Cleo Bennett, Jonathan Davy, Swantje Wells, Chloe Bennett

Design 1

August 29 (Thu) | 08:30-10:00 | 3F 301

Design 1-O-1 Towards Inclusive Healthcare: Bridging the Gap with Photogrammetry, Generative Design and 3D Printing
Carolina Alonso, Larissa Umbelino, Anael Alves

Design 1-O-2 DESIGN FOR CANCER PREVENTION: A HUMAN -CENTRED APPROACH
Erminia Attaianese, Ivo Caruso, Carla Langella

Design 1-S-3 Gender as an influencing factor on usability and emotional product design
Judith van Remmen, Tim Schacht, Sandro Wartzack, Jörg Miehling

Design 1-S-4 A Pilot Study on Assessing Comprehension of Chinese Safety Symbols for International Students
Wenqi Fang, Yu-Chi Lee

Design 1-S-5 Are guidelines for design of accessible toilets in India evidence-based? - Findings from a full-scale simulation study
Sanket Subhash Naik, Sabyasachi Paldas, Gourab Kar

Gender 2

August 29 (Thu) | 08:30-10:00 | 3F 302

Gender 2-O-1 WOMEN'S INCLUSION IN MINING WORK: THE DIALECTIC BETWEEN REALITY AND POLICY
Pamela Astudillo, Élise Ledoux, Nicole Vézina, Andrés Fandiño-Losada

Gender 2-O-2 Shaping Leadership Equity and Employee Wellbeing Through Design
Alana Maganha, Manuela Quaresma

Gender 2-O-3 SAFETY CULTURE IN THE EDUCATION SECTOR IN CHILE: EXPLORING REPRESENTATIONS ABOUT RISK FROM AN ERGONOMICS AND GENDER PERSPECTIVE
Pamela Astudillo, Carlos Ibarra Villanueva, Forlin Aguilera

Healthcare 3

August 29 (Thu) | 08:30-10:00 | 3F Samda B

Health 3-O-1 Factors influencing the risk of needlestick injuries among a group of nursing students of an educational institution in Colombia.
Lileth Narváez, Vanessa Pulsara, Yaniel Torres

Health 3-O-2 Quantifying the Impact of Healthcare System Design on Nurse Workload and Care Quality with Process Simulation Techniques
Sadeem Qureshi, Sue Bookey-Bassett, W. Patrick Neumann

Health 3-O-3 Fostering a Culture of Safety in Long Term Care Through a Systems and Participatory Ergonomic Approach
Leah Thomas-Olson

Health 3-O-4 CARING FOR PEOPLE IN HOSPITALS IN SOUTH AMERICA: HOW TO ADDRESS THE WORK ACTIVITY OF PARAMEDICS AND NURSES FROM AN ERGONOMIC PERSPECTIVE?
Pamela Astudillo, Carlos Ibarra Villanueva, Cinthia Pizarroso, Carlos Rubio

Health 3-O-5 BONE Break: A Hot Debrief Tool to Reduce Second Victim Syndrome in Nurses
Alexandra Watral, Amberly Hess, Tasha Flicek, Meshach Phillips, Renaldo Blocker

Health 3-S-6 Describing Team Membership During Maternal Hemorrhage Events
Kaitlyn L. Hale-Lopez, Neelam Verma, Shruti Chakravarthy, Jonathan Handler, Rebecca Ebert-Allen, William F. Bond, Abigail R. Wooldridge

Manufacturing 1

August 29 (Thu) | 08:30-10:00 | 3F Samda A

Manu 1-O-1 WORKSTATION DESIGN GUIDELINES WITH EMPHASIS ON ASSEMBLY ERROR PREVENTION: A PROPOSED MODEL FOR INTERVENTION IN CAR MANUFACTURING
Carlos Real, Yaniel Torres

Manu 1-O-2 Fostering AI-Human Collaboration in Industry 5.0 Manufacturing
Ali Karevan, Sylvie Nadeau

Manu 1-O-3 COMPARISON OF THE IMPACT OF DIFFERENT STRATEGIES FOR PREVENTING SELECTION ERRORS: RESULTS FROM A FIELD STUDY IN CAR MANUFACTURING
Carlos Real, Yaniel Torres

Manu 1-O-4 WORK-RELATED MUSCULOSKELETAL EFFECTS AMONG SEATED AND STANDING MANUFACTURING WORKERS
Jonathan Osorio-Vasco, Yordán Rodríguez, Elizabeth Pérez, Juan Luis Hernández-Arellano, Aide Aracely Maldonado-Macias

WWCS 1

August 29 (Thu) | 08:30-10:00 | 4F 401B

WWCS 1-O-1 Exploring Tacit Aspects of Work Activity Through Simulation: A Case Study in Forensic Packaging Design
João Marcos Bittencourt, Flávia da Silva Mello, Brenda Pereira Teixeira

WWCS 1-O-2 SIMULATION AND INTERMEDIARY OBJECT SYSTEMS: STRATEGIES FOR STRUCTURING AN ERGONOMIC DESIGN APPROACH
Barbara Oggioni, João Marcos Bittencourt, Camila Marins, Francisco Duarte, Pascal Béguin

WWCS 1-S-3 SUPPORTING CO-CREATION PROCESSES WITH REPRESENTATIONAL ECOSYSTEMS : LESSONS LEARNED FROM A 2-YEAR PARTICIPATORY DESIGN PROJECT
Stéphane Safin, Aliénor Morvan, Françoise Détienne

WWCS 1-S-4 PUT: A Study on Exterior Door Handle Design for the User Purpose of an Electric Vehicle
Hyewon Song, Seungseon Baek, Wonjae Youn, Hyeyoung Han, Dakyung Hwang, Kicheol Park

WWCS 1-S-5 CIRCUMSCRIBING COLLABORATION IN DESIGN: HIERARCHY AND CONSTRUCTIVE CONFLICT
Francoise Detienne, Michael Baker

Design 2

August 29 (Thu) | 10:15-11:45 | 3F 301

Design 2-O-1 Data Synthesis for Design Research - A Case Study of a Multimodal Mind Mapping Technique for Concept Generation
Varun Sai Koruprolu, Gourab Kar

Design 2-S-2 Experiment on form-morphing handles for anthropometric shapes and reduced contact pressure in load-transfer use cases
Jonathan M. Kiessling, Peter Schmid, Thomas Maier

Design 2-S-3 Designing Inclusive Train Travel Experiences for Children and Parents: Insights from a Human-centered Design Workshop
Renuka Singh, Gourab Kar

Design 2-S-4 How can the built environment of the home enable aging-in-place? Insights from a multi-sited ethnography of the elderly in India
Gourab Kar, Mohd. Sahil Khan, Sanket Naik, Sidharth Sonowal, Aswin S, Sabyasachi Paldas

Design 2-S-5 Emotional Eyes for Automated Vehicles: Investigating Design Dimensions and Pedestrian Acceptance
Nina Theobald, Felix Friedrich, Philip Joisten, Bettina Abendroth

Healthcare 4

August 29 (Thu) | 10:15-11:45 | 3F Samda B

Health 4-S-1 A Human Factors Engineering Approach to Improve Patient Engagement in Perioperative Pain Management
Anping Xie, Traci Speed, Yea-Jen Hsu, Samuel Kim, Ima Samba, Eileen McDonald, Jill Marsteller, Ronen Shechter, Marie Hanna

Health 4-S-2 Information Display Redesign for a Chinese Medicine Dispensing System
Sheau-Farn Max Liang, Yi-Ting Wu, Renming Zhang, Tu Sheng Lee, Suhan Hsu

Health 4-S-3 Shoulder-support exoskeletons as an intervention to support tasks performed by perioperative staff
Alec Gonzales, Dechristian Barbieri, Divya Srinivasan, Alfredo Carbonell, Anjali Joseph, Jackie Cha

Health 4-S-4 Predicting training progress in surgical expertise with cost-effective accelerometers
Jinwoo Oh, Shiyu Deng, Nathan Lau

Health 4-S-5 Study of cognitive function under 21 Days fasting state based on EEG
Zhongqi Liu, Yuan Fang, Qianxiang Zhou

Manufacturing 2

August 29 (Thu) | 10:15-11:45 | 3F Samda A

Manu 2-S-1 Exoskeletons to enhance Workforce Sustainability in SMEs – A field study in 13 Austrian companies
Paul Mathes, Matthias Wolf

Manu 2-S-2 Comparing the effect of two passive trunk exoskeletons with different structure on functional performance
Steffen Jansing, Vanessa Weßkamp, Leon Lindner, Jochen Deuse

Manu 2-O-3 A digital platform using smart wearables for manufacturing staff health, safety and quality – a co-design process with multiple stakeholders
Liyun Yang, Ida-Märta Rhen, Jörgen Eklund, Teresia Nyman, Lars Hanson, Per Magnusson, Thomas Tegerstrand, Maciej Zdrodowski, Mikael Forsman, Farhad Abtahi

Manu 2-S-4 INVESTIGATION OF COGNITIVE STRESS LEVELS AND PERFORMANCE DURING SYNTHETIC MULTITASKING AT DIFFERENT LEVELS OF WORKLOAD INTENSITY
Manida Swangnetr Neubert, Punyisa Arjhansiri, Kanyamon Achariyaboonyong, Weerawit Wijitpanyachot

Manu 2-S-5 ERGONOMIC RISK FACTORS THAT LEAD TO AN INCREASE IN MANUFACTURING CYCLE TIME
Lamberto Vázquez, Lamberto Vázquez, Diego Alberto Vázquez

Musculoskeletal 8

August 29 (Thu) | 10:15-11:45 | 3F Halla A

Mus 8-O-1 Beyond Naive Naturalism and NUI: Reconceptualizing Naturalness in Human-Computer Interaction
Liwen Gu, Long Liu

Mus 8-S-2 A study on quantification of caregivers' workload in excretion care
Byeonghee Won, Kyeong-Hee Choi, Jeong-Bae Ko, Hoonsang Lee, Hosang Lee, Sungpil Choi, Donghoon Lee

Mus 8-S-3 A comparative evaluation of the effectiveness of a variety of back-support exoskeletons for manual material handling tasks
Rahul Narasimhan Raghuraman, Jackie Cha, Divya Srinivasan

Mus 8-S-4 WRMSDs symptoms among teleworkers in Portugal
Florentino Serranheira, Maria do Carmo Baracho Alencar,, Julian Perelman, Pedro Laires

Mus 8-S-5 Drivers and Barriers in the application of ergonomic assessment practices in industries: An integrative Literature review
Huan Xu, Guido J.L. Micheli, Gaia Vitrano, Gabriele Caragnano, Rachele Sessa

UI/UX 10

August 29 (Thu) | 10:15-11:45 | 3F Halla B

UI/UX 10-S-1 EFFECTS OF COMPUTER MOUSE CONTROL-DISPLAY GAIN ON UPPER EXTREMITY FATIGUE, USER PREFERENCE AND PERFORMANCE
Yihui Ren, Bingchen Gou, Ruiqi Chen, Mengcheng Wang, Jifeng Xu, Ao Jiang, Hao Fan

UI/UX 10-S-2 RESEARCH ON THE EMOTIONAL VOCABULARY USED IN THE USER INTERFACE OF GENERATIVE AI-BASED MUSIC PRODUCTION SYSTEM
Yeongju Seo, Kiechan Namkung

UI/UX 10-S-3 Role of UX Design Midst Digital Transformation of Healthcare: Focus on Digital Health Literacy
Daeun Kim, Younghwan Pan

UI/UX 10-S-4 Mobile Layout Design for Effective Exploration of Food Labeling Information
Yunah Kang, Youngjae Im

UI/UX 10-O-5 Evaluating visual flow effectiveness in layout design through the lens of YI graphic
Bo Yuan, Sakol Teeravarunyou

Building and Construction 1

August 29 (Thu) | 13:15-14:45 | 3F 302

Build 1-S-1 The transformation of Algerian traditional homes into workplaces: Traditional architecture of South Algeria as an example
Abdelkhaliq Mebarki, Mohamed Mokdad, Bouhafs Mebarki

Build 1-S-2 Breaking the 'Macho' Mold: Advancing Musculoskeletal Injury Prevention in Construction with 'Work Should Not Hurt'
Stephven Kolose, Chris Polaczuk

Build 1-S-3 Occupational Health Practices in South African Construction
John Smallwood, Claire Deacon

Build 1-S-4 Exploring Inter-floor Noise Complaints: Customized Resolution Strategies Using Text Mining Analysis
Geonhee Kim, Jooyoung Hong, Wanki Moon, Jaeyun Jeon

Build 1-S-5 Mapping of Risk Factors for Work-related Musculoskeletal Disorders in Construction Workers: A Meta-analysis Study
Wyke Kusmasari, Yassierli Yassierli, Titah Yudhistira, Khoirul Muslim, Nurgrahaning Sani Dewi, Anisful Lailil Munawaroh

Build 1-S-6 INVESTIGATING AIRBORNE DUST AT CONSTRUCTION SITES
Zoltán Kutasi, Ferenc Kudász, Harald Kviecien, Gyula Szabo

Design 3

August 29 (Thu) | 13:15-14:45 | 3F 301

Design 3-S-1 Embedding accessibility: a feasibility study for the adaption of management systems standards frameworks for disability access
Carlo Caponecchia, Vanessa Huron, Elizabeth Mayland

Design 3-S-2 Wayfinding for the elderly: Effects of interfaces, experience, and education on the learning and use of navigation apps
Yuhan Chen, Lin Jiang, Chengqi Xue

Design 3-O-3 Co-design and inclusive tools: experimenting with prototypes as a project guide to foster human inclusion and diversity
Giuseppe Mincolelli, Silvia Imbesi, Gian Andrea Giacobone

Design 3-S-4 DESIGN PROJECT OF AN INCLUSIVE INTERFACE FOR THE PERSONALIZED POSTURE TRAINING OF AGING PEOPLE
Silvia Imbesi, Giuseppe Mincolelli

Design 3-S-5 Using Sensing Technology to Improve Access from Campus to the Classroom for Wheelchair-bound Students with Spinal Cord Injuries.
James Mcglothlin

Healthcare 5

August 29 (Thu) | 13:15-14:45 | 3F Samda B

Health 5-S-1 Work posture of perfusionists when working on heart lung machines
Maximilian Kehmann, Fabian Kracke, Claus Backhaus

Health 5-S-2 Quantifying the strain of the hand-arm-system of dialysis nurses: suitability of inertial sensors for measuring hand-joint movements
Chris Schröer, Stefanie Tänzler, Niels Hinricher, Claus Backhaus

Health 5-S-3 "Last-mile" user-centered design for mobile health applications: development and deployment challenges
Victor Cornet, Jessica Pater, Dana Albright, Mindy Flanagan, Elisabeth Andrews, Michelle Drouin, Yi Rong Tan, Abhinay Balasani, Rachel Pfafman, Jeanne Carroll, Fnu Vithala Venkata Sai Hari Shreya, Lauren Reining, Tammy Toscos

Health 5-S-4 Muscular Strain Using Different Bed Movers Compared to Manual Moving of Hospital Beds
Hendrik Ludewig, Niels Hinricher, Chris Schröer, Lorenz Müller, Claus Backhaus

Health 5-S-5 Stay@Home – Treat@Home - Improving outpatient care for geriatric patients: development of a telemedical network and a digital health diary
Maria Stahl, Robert Arndt, Niels Hinricher

Manufacturing 3

August 29 (Thu) | 13:15-14:45 | 3F Samda A

Manu 3-S-1 Information Representation Method of Information Interface with Coupled Visual Task Information Flow and Physiological Cognition
XIAOLI Wu, Xiaoli Wu, Zexi Fang, Xiaoman Jiang

Manu 3-S-2 Simulation of the effects of an adaptive height adjustment algorithm for large planar work objects at manual assembly stations
Maximilian Janus Pätzold, Josefine Charlotte Emmel

Manu 3-S-3 Ergonomics work risk reduction in an aerospace industry using Six Sigma methodology.
Karla Patricia Lucero-Duarte, Enrique Javier De La Vega Bustillos, Aide Aracely Maldonado Macias

Manu 3-S-4 Enhancing Autonomy and Agency in Human-Robot Interaction: An Interdisciplinary Overview and Methodological Toolkit
Luisa Vervier

Building and Construction 2

August 29 (Thu) | 15:00-16:30 | 3F 302

Build 2-S-1 Effects of Soundscapes on Indoor Environmental Quality and User Satisfaction in Cafés
Wanki Moon, Geonhee Kim, Jaeyun Jeon, Jooyoung Hong

Build 2-S-2 Simulation-based Mock-up Evaluation to Inform the Design of a Complex Continuing Care Facility
Jonas Shultz

Build 2-S-3 Warm-ups in the construction industry for effective MSD prevention: a work situation in its own right to be designed from an organisational perspective
Caitlin Troussier-Thévenot, Fabien Coutarel, Benoît Langard, Pascal Girardot, Yves Roquelaure

Design 4

August 29 (Thu) | 15:00-16:30 | 3F 301

Design 4-O-1 THE TERRITORIAL ENHANCEMENT OF SMALL VILLAGES THROUGH AN INCLUSIVE SYSTEM DESIGN APPROACH
Emilio Rossi, Sarah Jane Cipressi

Design 4-O-2 Design Model of Inclusive Service for Inland Waterways Transportation
Sarah Jane Cipressi

Design 4-O-3 Enhancing Accessibility in Art Museums: A Literature Review on Multi-Sensory Interaction for Blind Visitors
Libin Yuan, Alessia Brischetto, Francesca Tosi

Design 4-O-4 Design of a 10-meter motorboat refit for inclusive sport activities
Massimo Di Nicolantonio, Sarah Jane Cipressi

Design 4-O-5 -
-

Design 4-O-6 ENHANCE HUMAN DIVERSITY TO IMPROVE USER EXPERIENCE: USABILITY TEST FOR A PUBLIC ADMINISTRATION WEBSITE
Isabel Leggiero, Elena Polleri, Francesca Rocca

Healthcare 6

August 29 (Thu) | 15:00-16:30 | 3F Samda B

Health 6-S-1 Distinct patterns of force variability parameters during mechanically assisted force coordination
Jeewon Choi, Satoshi Muraki

Health 6-S-2 A Study of the Effect of Communication on Teamwork Formation and Workload in ICU Nursing: Based on a Simulation Experiment
Aika Kishigami, Yuki Mekata, Jun Hamaguchi, Miwa Nakanishi

Health 6-S-3 Meeting User Needs and Mitigating Risks: Usability Engineering in Neonatal Incubator Design
Junhee Choi, Yeahna Ryu, Ji Young Yoo, Hyung Tae Lim, Sung Yong Cho, Saram Lee, Jung Chan Lee

Health 6-S-4 Challenges to Integrating Magnetic Resonance Imaging Systems in Ambulances for Stroke Care
Arvind Kolangarakath, Kapil Chalil Madathil, Sudeep Hegde, Shubham Agrawal, Lauren Simmons, Mary Bian, Gabby Molloseau, Christine Holmstedt, Dustin LeBlanc, Jillian Harvey, Todd McGeorge, Maria Spampinato, Donna Roberts

Health 6-S-5 Alpha test of patient decision aid for obstructive sleep apnea
Hsin-Chang Lo, Mei-Chen Yang, Yow-Tyng Lin

Health 6-S-6 Operationalisation of a Complexity Estimation Protocol for Diagnostic Tasks in Emergency Medicine
Swagatam Dey, Shrirang Shriram Joshi, Prakash Ranjan Mishra, Pramod Khadilkar

Potpourri 5

August 29 (Thu) | 15:00-16:30 | 3F Samda A

Potpourri 5-S-1 Assessing the Effect of a Novel Adaptive Automation Approach for Enhanced Human-Robot Collaboration
Federico Fraboni, Matteo Manzardo, Luca Gualtieri, Sofia Morandini, Luca Pietrantoni, Renato Vidoni

Potpourri 5-S-2 Participatory approach of Ergonomics for identifying aspects that influence student productivity in internship programs
Swasti Wulanyani

Potpourri 5-S-3 IMPACTS OF A COBOTIC SYSTEM IN A CONSTRAINED WORK ENVIRONNMENT
Etienne Fournier, Christine Jeoffrion, Aurélie Landry

Potpourri 5-S-4 Developing a Design Guideline for the Sleeping Bag for Special Forces
Ulugbek Vahobjon Ugli Ismatullaev, Ui-Jung Kwon, Joongsoo Kim, Daehun Lee, Kwanmyung Kim

Potpourri 5-S-5 Examining communication structures in human-machine teams
Sophie Hart, Katie Parnell, Victoria Steane, Mark Chattington, Katherine Plant

Potpourri 5-S-6 IDEAL: Integrating Humanity-Centered Design and One Health Principles for Sustainable Development
Federica Masci, Mina Mounir Abdelmessih Shehata, Pralle Kriengwatana, Dong Liu, Robbert Boudewijns, Robin Cuypers, Lotte Hallez, Gero Laurenz Höhn, Charline Depoorter, Hannah Ameye Ameye, Liesbet Vranken, Jean Marie Aerts

Better Life
Ergonomics
for Future
Humans

Special Sessions

DAY 1
August 26
(Mon)

- SYMPOSIUM 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 18
- Panel Discussion 1, 2, 3, 5, 6, 7, 9, 10
- Workshop 1, 2, 3, 4
- CES-Education 1, 2, 3, 4

SYM 1 I SYM-Military Anthropometry

August 26 (Mon) | 08:30-10:00 | 3F 301

[Special Session] Exploring Dynamics in Military Anthropometric Research [Chair] Hyegjoo Choi-Rokas

SYM 1-S-1 U.S. Navy (USN)/U.S. Marine Corps (USMC) Aircrew Anthropometric Survey Research Products and Lessons Learned

Lori Basham, Joseph Parham, Ashley Wheeler, Todd Garlie, Brian Corner, Jennifer Knapp, Sienna Pollock, Jehnae Linkins, Kenneth Ritchey, Joel Spratt, Robin Carufel, Andrew Koch, Samikshya Acharya and Hyegjoo Choi-Rokas.

SYM 1-S-2 Evaluating the Influence of Demographic Shifts on Military Anthropometric Databases

Hyegjoo Choi-Rokas, Joseph Parham, Elizabeth Perry, Linda Desimone and K. Blake Mitchell.

SYM 1-S-3 Assessing Variations in Waist Dimensions within Military Anthropometric Data and Their Implications

Hyegjoo Choi-Rokas.

SYM 1-O-4 The Conundrum of Integrating Manual and Digital Anthropometric Measurement Methods

Robin Carufel, Hyegjoo Choi-Rokas, Elizabeth Perry, Peng Li and K. Blake Mitchell.

SYM 1-S-5 Evaluation of a Fast, Portable Anthropometry System for Clothed Measurements.

Byoung-Keon Park, Brian Corner and Matthew Reed.

CES-ED1 I CES Education 1

August 26 (Mon) | 08:30-10:00 | 4F 402B

Panel Discussion 1

August 26 (Mon) | 08:30-10:00 | 4F 402A

Applications of Emerging Technologies in Addressing Musculoskeletal Disorders (MSDs) [Chair] Jay Kim, Jackie Cha, Ram Maikala

Examining the effectiveness of back exoskeletons in reducing overexertion and awkward postures during patient-handling tasks to prevent MSDs among healthcare professionals.

Jaejin Hwang

Discussing the feasibility and efficacy of passive shoulder-support exoskeletons for surgical teams to reduce MSD risks and improve patient care and safety.

Jackie Cha

Demonstrating the assessment of different upper-limb exoskeletons for overhead automotive assembly tasks to address shoulder pain and rotator cuff syndrome.

Michael Watterworth

Evaluating the feasibility and accuracy of AI-powered computer vision-based motion capture methods for joint kinematic analysis during lifting tasks to assess MSD risks.

Jeong Ho "Jay" Kim

Presenting advanced computer vision and AI technologies for automatic posture categorization and improved biomechanical analysis in manual lifting tasks to assess ergonomic risks.

Chien-Chi (Max) Chang

Addressing best practices for implementing computer vision-based MSD risk assessment tools to optimize health and safety efforts in the workplace.

Steven Fischer

Panel Discussion 3

August 26 (Mon) | 08:30-10:00 | 3F 302

A Growing HFE Network of Chinese Association of Ergonomics Societies (CAES) [Chair] Eric Wang

The role of CAES: Cross-border Chinese HFE heritages from the past to the future

Eric Wang

The Recent Development of Human Factors and Ergonomics in Taiwan

Chris Su

Human Factors and Ergonomics in China: Research and Practice

Ruifeng Yu

Ergonomics and human factors in Hong Kong

Yan Luximon

Exploration of Engineering Management Education in the New Era: Demand-oriented Integrated Innovation Course Design and Implementation

Wei Zhang

The Experience and Prospect of Promoting Human Factors/Ergonomics in Healthcare in Taiwan

Yu-Hsing Huang

Human computer interaction and interface design in intelligent equipment and systems

Chengqi Xue

Integrating Human Factors in the Development of Sensor-Driven Healthcare Solutions

Hailiang Wang

Workshop 2

August 26 (Mon) | 08:30-10:00 | 3F 303A

Resilience in health systems: coping with disasters or deal with everyday functioning? [Chair] Paulo Victor Rodrigues de Carvalho

1. Importance of Resilience in Healthcare Systems Highlighted by the COVID-19 Pandemic
2. Need for Research on Everyday Resilience
3. Definition and Challenges of Resilience
4. Limitations of Structure-Based Evaluation Models
5. Case Example of Structural Evaluation Model Limitations

Paulo Victor R. de Carvalho

Alessandro Jatoba

Tarcisio Abreu Saurin

Hugo Cesar Bellas

Paula de Castro Nunes

Jaqueline Viana de Souza

Matthew J. Harris

Cornelia J.. Minton

Panel Discussion 2

August 26 (Mon) | 08:30-11:45 | 4F 401B

Activity theories and systems approaches in ergonomics: issues, challenges and perspectives

[Chair] Takeshi Ebara, Tahar Hakim Benchekroun

Theoretical elements of AT and systems approaches in ergonomics
Tahar Hakim Benchekroun

Safety-II approach to enhance safety of socio-technical systems
Makoto Takahashi

Good practice of a pedagogical method for learning systems approach
Andrew Todd

A case study of applying the systems approach to application construction -Application for Fire and Disaster Prevention-
Akiko Ide

An example of applying systems approach in EDF R&D: lessons learned from Fukushima accident
Cecilia De la Garza

Workshop 1

August 26 (Mon) | 08:30-10:00 | 4F 401A

The Revised NIOSH Lifting Equation (RNLE) and Ergonomics Standards for the Prevention of Musculoskeletal Disorders (MSDs)

[Chair] Ming-Lun Lu

Introduction of RNLE and measurements for RNLE including an interactive session
Ming-Lun Lu

How to properly use the NLE Calc including an interactive session
Robert R. Fox

Recent international ergonomic standards for physical and psychosocial hazards
Menekse Barim

Guidance in implementing ergonomic standards in the US industry
James McGlothlin

SYM 2 I SYM-Affective Design Trends

August 26 (Mon) | 10:15-11:45 | 4F 402A

[Special Session] Trends in Affective Design Research [Chair] Rosemary Seva

SYM 2-S-1 Emotional Attachment to Fair-Trade Coffee
Alma Maria Jennifer Gutierrez, Reynaldo Bautista and Dennis Erasga.

SYM 2-S-2 Affective Design of Shopping Bags to Promote Recycling
Jenna Cristina Balasbas, Leanne Jessica Co, Rosemary Seva and Svettlana Marie Vera.

SYM 2-S-3 Predicting the Factors that Affect M-commerce Application "Stickiness"
Adrianne Ong and Rosemary Seva.

SYM 2-S-4 Exploring The Dynamics of Affect and Cognitive Assessment in Trust and Reliance on Decision Support Systems in Healthcare
Ezekiel Bernardo, Rosemary Seva, Angelimarie Miguel, Karen Sagun, Adrian Joseph Estrella and John James Jovellano.

SYM 2-S-5 Evaluation of Usability and Arousal Levels in Electric Vehicles Using In-Vehicle Physiological Signals: A Focus on Motion Sickness
Jiyeon Shin, Yein Song, Cai Wang, Jungyeon Park, Jaehoo Bae, Jae Sik Yang, Seonghyeon Kim, Sangwoo Bahn and Myung Hwan Yun.

SYM 3 I SYM-EWAT-Training Trainers

August 26 (Mon) | 10:15-11:45 | 3F 303A

[Special Session] Ergonomic analysis of activity and training of trainers [Chair] Christine Vidal-Gomel

SYM 3-S-1 Which training of occupational gesture as lever for the prevention of musculoskeletal disorders?
Pascal Simonet and Adriana Savescu.

SYM 3-O-2 Safety Issues for outdoor professionals: a constructive ergonomics approach to vocational training
Deborah Gaudin and Antoine Girard.

SYM 3-S-3 Simulation and Trainers' Work Situation in the Nuclear Field
Thibault Chiron, Christine Vidal-Gomel and Pascal Simonet.

SYM 3-S-4 Training of trainers through activity analysis: from "right gesture" to the integration of MSDs prevention
Géraldine Body and Christine Vidal-Gomel.

SYM 3-S-5 Trainers' activity during simulations and use of video during debriefings in firefighter training
Madison Dave, Agnès Van Daele, Sylvie Vandestrate and Laurie-Anna Dubois

SYM 3-S-6 Mediation system for analysing the design of training scenarios for training
Samira Mahlaoui and Grégory Munoz.

SYM 4 I SYM-UD

August 26 (Mon) | 10:15-11:45 | 3F Halla B

[Special Session] Universal Design

[Chair] Seongjun Kwag

SYM 4-S-1 A case study on the intuitive posters by Byoung-il Sun
Byoungil Sun

SYM 4-O-2 Universal Design: The use of Pictograms and Iconography in Denmark
Rikke Hansen

SYM 4-S-3 Universal Design and Application Case
Changshik Jang.

SYM 4-S-4 Evaluation and Utilization of Signage Information Transmission and Universal Design Elements
Seongjun Kwag.

SYM 4-S-5 2024 Universal Platform
Kim Gokmi.

CES-ED2 I CES Education 2

August 26 (Mon) | 10:15-11:45 | 4F 402B

SYM 5 I SYM-Climate Change On Women Work

August 26 (Mon) | 10:15-11:45 | 2F 202B

[Special Session] The impact of climate change on women's work and gendered division of work

[Chair] Christelle Casse

SYM 5-O-1 THE EFFECTS OF GLOBAL WARMING ON THE WOMEN ACTIVITIES OF MOUNTAIN GUIDES AND REFUGE WARDENS
Sandrine Caroly.

SYM 5-O-2 Climate change, extreme temperatures, and heat exposure among men and women agricultural workers in Lebanon
Rima R. Habib, Lea Saad, Lina Fakih, Fida Awada and Iman Nuwayhid.

SYM 5-O-3 The need to take into account the gender division of labour in responding to natural disasters and epidemics in the Indian Ocean
Amber Cripps and Emmanuel Souffrin.

SYM 5-O-4 Forms of precariousness linked to climate change in French seasonal agricultural work analyzed in an Expanded Community of Research-Intervention (ECRI)
Fabienne Goutille and Alain Garrigou.

Panel Discussion 5

August 26 (Mon) | 10:15-11:45 | 3F 302

GfA-NEXT – An Example for Advancing Young Talent in a National Human Factors & Ergonomics Society

[Chair] Sascha Wischniewski

Patricia H. Rosen

Helena ten Brink

Jasper Johns

Jonathan Kiessling

Yannick Metzler

Rolf Ellegast

Panel Discussion 6

August 26 (Mon) | 10:15-11:45 | 3F 303B

Challenges in Implementation (research to practice) of Emerging Technologies in Addressing Musculoskeletal Disorders

[Chair] Divya Srinivasan

Sharing research on integrating back-support exoskeletons into manufacturing, focusing on their effectiveness, usability, user acceptance, and the impact of demographic differences and exposure over time.

Divya Srinivasan

Discussing the use of virtual reality (VR) for proactive ergonomics analysis and design, highlighting the strengths and limitations of VR immersion for ergonomic assessments and offering recommendations for practical implementation.

Nicholas La Delfa

Presenting research on arm support exoskeletons (ASEs) in overhead work, addressing challenges in implementation for variable tasks, and discussing guidelines to improve usability and acceptance among construction workers.

Carisa Harris Adamson

Exploring the "village approach" for in-house safety technology qualification, particularly exoskeletons, and discussing the lessons learned and challenges faced due to a dynamically shifting workplace.

Christopher Reid

Providing a roadmap for pilot and implementation to guide organizations in adopting emerging technologies for addressing musculoskeletal disorders (MSDs) and ensuring a successful return on investment.

Ram Maikala

Summarizing research on the use of wearable inertial sensors for kinematic assessment of MSD risk factors and offering recommendations to increase their adoption in the workplace.

Mark Schall

SYM 6 I SYM-Digital Human Modeling

August 26 (Mon) | 13:15-14:45 | 3F 303B

[Special Session] Digital Human Modeling in Protective Equipment Design: Applying Anthropometrics

[Chair] Hyegjoo Choi-Rokas

SYM 6-S-1 Defining Work Limit and Capabilities for Spacesuit Wearers in Lunar Exploration Tasks
Yaritza Hernandez, Pouyan Sabahi, Linh Vu, Han Kim and Nathaniel Newby.

SYM 6-S-2 Spacesuit Sizing by Multivariate Simulation: Case Study for Liquid Cooling and Ventilation Garment
K. Han Kim, Shane McFarland, Elizabeth Benson and Nathaniel Newby.

SYM 6-S-3 Development of Anthropometric Guidelines for Maxillofacial Protection Design in Head-Borne Systems
Hyegjoo Choi-Rokas, Todd Garlie, Peng Li, Will Green, K. Han Kim, Yaritza Hernandez, Nathaniel Newby and K. Blake Mitchell.

SYM 6-S-4 Accommodation of Posture Variations in Lower Head for Maxillofacial Protective Equipment Design
K. Han Kim, Yaritza Hernandez, William Green, Hyegjoo Choi-Rokas, Peng Li, Todd Garlie, Nathaniel Newby and K. Blake Mitchell.

SYM 6-S-5 Comparative Analysis of Head and Face Shape using Principal Component Analysis with 1D and 3D Data
Hyegjoo Choi-Rokas, K. Han Kim, Peng Li and K. Blake Mitchell.

SYM 6-S-6 Applicability of Parameterized Digital Humans in Anthropometric and Ergonomic Product Design Studies
Wonsup Lee, Hayoung Jung and Heecheon You.

SYM 7 I SYM-Neuroergonomics

August 26 (Mon) | 13:15-14:45 | 4F 402A

[Special Session] Neuroergonomics: Brain, Cognition and Performance at Work

[Chair] Minkyu Ahn

SYM 7-S-1 Multilayer network approach to EEG based inter-brain synchrony in Group
Heegyu Kim, Sangyeon Kim, Sung Chan Jun and Chang S Nam.

SYM 7-S-2 Exploring Temporal and Spatial Information in EEG-Based User Identification A ShallowNet Approach
Chaehyun Lee and Sung Chan Jun.

SYM 7-S-3 Exploring the user-centered design of motor imagery Brain-Computer Interfaces
Daeun Gwon and Minkyu Ahn.

SYM 7-S-4 Preference Prediction of Different Cosmetic Formulations Based on Portable Electroencephalography
Hye-Ran Cheon, Gusang Kwon and Han-Jeong Hwang.

CES-ED3 I CES Education 3

August 26 (Mon) | 13:15-14:45 | 4F 402B

Panel Discussion 7

August 26 (Mon) | 13:15-14:45 | 4F 401B

Development of improved risk metrics for preventing musculoskeletal disorders (MSDs) [Chair] Ming-Lun Lu

The Use of Wearable IMU for the Prevention of MSDs – Reflections on Current Applications, Challenges, and Future Opportunities

Carl Lind

The computer vision based ergonomic risk assessments

Ming-Lun Lu

Challenges and opportunities in individualized ergonomic risk assessments

Menekse Barim

What are the gaps in current ergonomic risk assessments?

Carisa Harris-Adamson

Considerations and future directions in implementing technology based ergonomic risk assessments

Robert Fox

Panel Discussion 9

August 26 (Mon) | 13:15-14:45 | 3F 303A

Bringing Ergonomics & Human Factors beyond the Ergo-community [Chair] Era Poddar

In Canada, EHF is often integrated into occupational health and safety but is less recognized in broader applications. The Ergo@Large initiative aims to expand EHF through education, industry networking, and expert knowledge exchange.

Heather Kahle, Jeanne Guerin

Australia's HFESA focuses on bridging the gap between EHF knowledge and its practical application in politics, industry, and education, highlighted through initiatives like the HFEhub.au podcast.

Sharon Todd

CIEHF's new strategic plan focuses on engaging leaders and influencers to advocate for EHF, especially in sectors facing skilled worker shortages.

Ben Peachey

HFES is involved in developing national standards, advocating for EHF in public policy, and promoting EHF through various programs and collaborations.

Ram Maikala

In Chile, EHF is primarily associated with safety in mutual insurance companies. Academia plays a crucial role in expanding EHF knowledge and application.

Begoña Juliá Nehme, Victoria Villalobos

EHSS includes a network for voice ergonomics, addressing the gap in occupational health services for voice disorders through proactive knowledge sharing.

Mia Bäcklin

Workshop 3

August 26 (Mon) | 13:15-14:45 | 4F 401A

Exploring Human/User Experience in Future Mobility

[Chair] Jaesik Yang

Overview of the Progress and Recent Trends in Automotive UX/HMI
Sung-Hyun Lim

A Study on Context-based Multimodal Interaction in Future Mobility
Junghyun Cho

Introduction to Bang & Olufsen BEOSONIC UX/UI
Soyoun Moon

Metrics for Comprehensive Evaluation of Vehicle Motion Sickness
Yoonjin Lee

Exploring Motion Sickness Test Modes Based on Electric Vehicle Driving Patterns
Jaesik Yang

Workshop 4

August 26 (Mon) | 13:15-14:45 | 2F 202B

Simple Tools for the Preliminary Assessment of Occupational Biomechanical Overload in Simple and Complex Jobs and Tasks, In Compliance with the Relevant ISO Standards

[Chair] Daniela Colombini

ERGOCHECK: a general model for preliminary risk factors analysis: structure and applicative examples
Occhipinti Enrico

Presentation of simple tools for studying occupational risks in agriculture and civil construction with relative specific ERGOCHECK in application of ISO TR 23476 (agriculture) and ISO TR 7015 (construction): applicative examples
Colombini Daniela

TACOs, a new timed strategy and its simple tool for the assessment of awkward working postures
Sonia Tello

PUSHPULL simple tool: practical techniques, criteria and simple tool for measuring and interpreting detected forces in pushing and pulling tasks using digital versus traditional analog dynamometers
Candoli Matteo, Cerbai Marco

VINCI calculation model for the analytical study of the risk of the whole biomechanical overload in exposures to multiple tasks in monthly/annual cycles also in application of ISO Standard
Enrique Alvarez

SYM 8 | SYM-Physical Workload Measurement August 26 (Mon) | 16:45-18:15 | 3F 301

[Special Session] Field Measurements of physical workload - assessment procedures for continuous exposure data

[Chair] Rolf Ellegast

SYM 8-S-1 Proposal for the assessment of technically measured physical activity and sedentary behavior at the workplace
Britta Weber, Ingo Hermanns-Truxius, Konstantin Wechsler and Rolf Ellegast.

SYM 8-S-2 PROPOSAL FOR AN ASSESSMENT PROCEDURE FOR LUMBAR SPINE WORKLOAD
Christoph Schiefer, Britta Weber, Ingo Hermanns-Truxius, Kai Heinrich and Rolf Ellegast.

SYM 8-S-3 PROPOSAL FOR AN ASSESSMENT PROCEDURE FOR SHOULDER WORKLOAD
Kai Heinrich, Britta Weber, Ingo Hermanns-Truxius and Rolf Ellegast.

SYM 8-S-4 Proposal for measurement-based risk assessment of hand and wrist workload
Elisabeth Ibenthal, Kai Heinrich, Britta Weber, Ingo Hermanns-Truxius and Rolf Ellegast.

SYM 8-O-5 Validation of an IMU-based replacement for electro-goniometers for recording of wrist velocity and position.
Henrik Enquist, Lotta Löfqvist and Camilla Dahlqvist.

SYM 8-S-6 Development of a biomechanical assessment method for shoulder and back exoskeletons in the workplace
Xavier Robert-Lachaine, Hakim Mecheri, Denys Denis and Christian Larivière.

SYM 9 | SYM-Harmful Working Condition August 26 (Mon) | 16:45-18:15 | 4F 401A

[Special Session] Gender, intersectionality, power issues and harmful working conditions

[Chair] Marie Laberge

SYM 9-S-1 Preventing occupational cancers among male and female adolescents with learning disabilities
Marie Laberge, Jena Webb, Nadielda Pastor-Bédard, Sami Fettah, France Labrèche, Sabrina Gravel, Joseph-Omer Dyer, Sylvain Letscher and Daniel Côté.

SYM 9-S-2 Addressing Occupational Health Disparities in a Dual-Training Program: An Intersectional Perspective on Teachers' Discourse
Myriam Bérubé, Céline Chatigny and Marie Laberge.

SYM 9-S-3 Primary prevention of occupational cancer in adolescents: a scoping review
Nadielda Pastor-Bédard, Jennifer Webb, Hélène Sultan-Taïeb and Marie Laberge.

SYM 9-S-4 BEYOND INCLUSION: UNDERSTANDING GENDERED PRACTICES IN EMPLOYMENT SUPPORT STRUCTURES
Sami Fettah, Isabelle Berger, Savanah Laurence, Isabelle Feillou, Philippe Senecal, Aline Lechaume, Vanessa Remery and Marie Laberge.

SYM 9-O-5 Activity and activism of seasonal workers against precarious conditions in agriculture
Fabienne Goutille and Alain Garrigou.

SYM 10 I ALT-UCD-Community Hospital

August 26 (Mon) | 16:45-18:15 | 4F 402A

[Special Session] Demonstration of a mobile and web system designed and developed by a community hospital using user-centered design

[Chair] Victor Cornet

SYM 10-S-1 Demonstration of a mobile and web system designed and developed by a community hospital using user-centered design

Victor Cornet, Jessica Pater, Dana Albright, Mindy Flanagan, Elisabeth Andrews, Michelle Drouin, Yi Rong Tan, Abhinay Balasani, Rachel Pfafman, Jeanne Carroll, Shreya Vithala, Lauren Reining and Tammy Toscos.

SYM 18 I SYM-Workspace Future

August 26 (Mon) | 16:45-18:15 | 4F 401B

[Special Session] Workspaces of the future: the impact of workplace design on well-being and job performance

[Chair] Olga Kombeiz

SYM 18-S-1 Happy enough with the workspace to be creative? Evidence on satisfaction with the physical work environment

Olga Kombeiz and Marie Stracke.

SYM 18-S-2 Nature restoration: The performance and psychological benefits of plants in workplaces

Andrew Thatcher.

SYM 18-O-3 What We Know and What We Should Know about the Consequences of Activity-based Offices: A Bayesian Meta-analysis

Ann Sophie Lauterbach and Randi Hovden Borge.

SYM 18-O-4 How are teleworking, perceived workspace quality and well-being related in hybrid work?

Annu Haapakangas, Suvi Hirvonen, Elina Tulenheimo-Eklund, Jaakko Airaksinen, Maria Hirvonen, Virpi Ruohomäki and Kari Reijula.

SYM 18-S-5 Navigating the Spatial-Temporal Dynamics in Hybrid Working Teams: A Socio-Technical Perspective

Linhao Fang, Matthew Davis and Helen Hughes.

CES-ED4 I CES Education 4

August 26 (Mon) | 16:45-18:15 | 4F 402B

Panel Discussion 10

August 26 (Mon) | 16:45-18:15 | 3F 303B

Cybersecurity and Ergonomics & Human Factors

[Chair] Cecilia De la Garza, Takashi Toriizuka

Cecilia De la Garza

Tahar Hakim Benchekroun

Makoto Takahashi

Yuri Nishizawa

Sunghyon Jang

Better Life
Ergonomics
for Future
Humans

IEA 2024

Special Sessions

DAY 2
August 27
(Tue)

- SYMPOSIUM 11, 12, 13, 14, 15, 16, 17, 19, 20
- HFE-x
- CES-Aging, Design, AI, Physical, Smart Device, Biophysical
- Panel Discussion 4, 11, 12, 13, 14
- Workshop 5
- IEA/ISO 1, 2, 3
- ESK-JES Joint Symposium
- EC 0, 2, 3, 4

SYM 11 I SYM-Intellectual Property

August 27 (Tue) | 08:30-10:00 | 4F 402A

[Special Session] Integrating Human Factors into ntellectual Property Management [Chair] Jinhyun Kim

SYM 11-S-1 A service platform for connecting South Korean technology and IP with the global market ("ThinkCat Global")
Jinhyun Kim.

SYM 11-S-2 AI based Decision Support System for Technology Transfer Service
Tae Hyoung Kim.

SYM 11-S-3 Leveraging Humanity and Innovation via AI in Korea
Seong Ju Kang.

SYM 11-S-4 Usability Analysis for Expert Network Platforms: A Cost-Effective Approach for SMEs Leveraging Social Network Analysis
Eunseo Ryu, Jiyeon Shin, Jungyeon Park, Jaehoo Bae, Honghua Lyu and Myung Hwan Yun.

SYM 11-S-5 Integrated Heuristic Framework for Enhancing Platform Usability
Jiyeon Shin, Jungyeon Park, Jaehoo Bae, Lyu Honghua and Myung Hwan Yun.

SYM 12 I SYM-Intelligent Production

August 27 (Tue) | 08:30-10:00 | 4F 402B

[Special Session] Intelligent production system [Chair] Sungbum Jun

SYM 12-S-1 Decentralized Conflict Resolution Approach for Autonomous Mobile Robots
Sungbum Jun, Chahyun Sim and Chaeyeon Baek.

SYM 12-S-2 Temporary Capacity Expansion Policy for Multiple Lines in a Semiconductor FAB using Reinforcement Learning
Minh Dang Trinh, Jaehun Kang, Kyungsik Choi, Youngsik Shin, Seongbo Hwang and Jun-hee Han.

SYM 12-S-3 A hybrid VNS-RL approach for parallel machine batch scheduling in air conditioner manufacturing
Sohyun Jeong, Sang-Wook Lee, Jimin Park and Hyun-Jung Kim.

SYM 12-S-4 Development of Congestion Key Performance Indicator for Efficient Automated Material Handling System Management
Gyusun Hwang.

SYM 13 I SYM-Smart Production And Supply Chain August 27 (Tue) | 08:30-10:00 | 3F 301

[Special Session] Applications for smart production and supply chain operations [Chair] Kyu-Tae Park

SYM 13-S-1 Multi-Objective Parallel Machine Scheduling with Sequence-Dependent Setups and Additional Resource Constraints: A Case Study of Refrigerator Manufacturing Lines
Soyoung Lee, Hyun-Jung Kim, Jehun Lee and Seon-Young Hwang.

SYM 13-S-2 Adaptive supply chain system design for fruit crops under climate change
Hoyoung Jeong and Chulhun Choi.

SYM 13-S-3 Application and Potential Extension of Human-centric Digital Twin in Smart Manufacturing
Soonkyu Kwon, Chiho Lim and Kyutae Park.

SYM 13-S-4 Explainable Machine Learning for dispatching rules in semiconductor manufacturing
Josue Obregon and Jae-Yoon Jung.

SYM 14 I SYM-Aviation Human Factors August 27 (Tue) | 08:30-10:00 | 3F 303A

[Special Session] Research trends in human factors in aviation [Chair] Sungho Kim

SYM 14-S-1 User Centered Design for Pilot debriefing system
Joeun Lee, Sungho Kim and Myung Hwan Yun.

SYM 14-O-2 Discussion on the Human-Machine Interface Design of Flying Cars in Unmanned Driving Scenarios
Ziang Li, Haoran Deng and Quan Yuan.

SYM 14-S-3 A Review of Spatial Disorientation in Flight
Sungho Kim, May Jorella Lazaro and Myung Hwan Yun.

SYM 14-S-4 Addressing the Complexity between Controller and Display: Using Discrete and Continuous Concepts
Jaehoo Bae, Honghua Lyu, Donghoon Seu, Jung Yeon Park, Joong Hee Lee and Myung Hwan Yun.

SYM 14-S-5 Analysis of Pilot Vehicle Interface Design Trends for Next-Generation Fighter
Hayoung Jung, Sungho Kim and Heecheon You.

SYM 14-S-6 Evaluation of Pilots' Perception While Using Past, Current, and Emerging Aircraft Taxiing Support Technologies
Chang-Geun Oh and Kyu Wang Kim.

SYM 16 I SYM-MSD in Farmers

August 27 (Tue) | 10:15-11:45 | 4F 402A

[Special Session] Application of Ergonomics for the Prevention of Musculoskeletal Disorders in Farmers : The Importance of Work and Work Environment Enhancement

[Chair] Mintae Seo

SYM 16-S-1 Ergonomic Interventions Among Farm-workers in California and Overview of the Western Center for Agricultural Health and Safety in the United States
Fadi Fathallah.

SYM 16-S-2 The Status of Musculoskeletal Disorders in Korean Farmers and Prevention
Kyungsu Kim, Insoo Kim, Mintae Seo, Suin Park, Minji Lee and Wongeon Jung.

SYM 16-S-3 The Development of Customized Musculoskeletal Workload Reduction Technology for Korean Farming Work
Yong-Ku Kong, Hyun-Ho Shim, Hyunji Keum, Seungjae Son, Min-Tae Seo and Seoung-Yeon Kim.

SYM 16-S-4 Swedish initiatives to improve ergonomics and working conditions for farmers
Peter Lundqvist.

SYM 17 I SYM-Transportation Logistics

August 27 (Tue) | 10:15-11:45 | 4F 402B

[Special Session] Innovative strategies in transportation logistics and system optimization

[Chair] Hoyoung Jeong

SYM 17-S-1 Container Vehicle Scheduling Problem based on Congestion Variations at Port Terminals: Hybrid of Greedy and Genetic Algorithm
Sang Woo Song and Yoonjea Jeong.

SYM 17-S-2 The Use of Urban Air Mobility (UAM) Logistics for Middle Mile Transportation
So Rim Han and Byung Duk Song.

SYM 17-S-3 Efficient hub-based platoon formation and operation
Young Kwan Ko, Byeong Ju Jo and Young Dae Ko.

SYM 17-S-4 Flying Warehouse Delivery System with Multi-commodity Inventory Management
Hyeseon Han and Byung Duk Song.

Panel Discussion 4

August 27 (Tue) | 10:15-11:45 | 3F 303A

Sensors and AI in Occupational Safety and Health [Chair] Ji-Eun Kim

Motion sensing and advanced analytics for falls and injury prevention
Shuping Xiong

Non-invasive biomechanical analysis in commercial fishing using inertial measurement unit sensors
Jeong Ho "Jay" Kim

Multimodal physiological sensing in detecting workload in healthcare and robotics
Denny Yu

Eye tracking and physiological sensing for time management and mental health in e-learning
Tianchen Sun

Neurophysiological sensor-based error prediction in aviation
Ji-Eun Kim

Panel Discussion 11

August 27 (Tue) | 10:15-11:45 | 3F 303B

Certification Body Experience Exchange [Chair] Maggie Graf

Ben Peachey
Chartered Institute of Human Factors and Ergonomics, United Kingdom

Heather Kahle
Association of Canadian Ergonomists

Paolo Antonio Barros Oliveira
Brazilian Association of Ergonomics (ABERGO -cisceb)

Takashi Toriizuka
Certification body of Japanese Ergonomics Societ

Rose Figueroa
Board of Certification of Professional Ergonomists (BCPE-USA)

Andrew Thatcher
Certification System of South Africa

Valerie O'Keefe
Certification body of Human Factors and Ergonomics Society of Australia

ESK-JES Joint Symposium

August 27 (Tue) | 10:15-11:45 | 2F 202B

Collaboration and Future of Ergonomics in East Asia

[Chair] Sang-ho Kim, Takashi Toriizuka

Min K. Chung
President of NRF Korea, 2014-2016

Sadao Horino
Kanagawa University

Kwan S. Lee
President of ESK, 1999-2002

Eric Wang
President of IEA, 2012-2015

Wei Zhang
Tsinghua University

Sang-ho Kim, Takashi Torizuka
President of Ergonomic Society of Korea / President of Japan Ergonomics Society

EC 0

August 27 (Tue) | 10:15-11:45 | 3F Samda A

Student Award Speech

[Chair] Kathleen Mosier

Modelling visual perception and affective responses of in-vehicle display vibration
Soomin Hyun

A Randomized Controlled Trial to Improve the Quality of Life of Housewives with Musculoskeletal Disorders- A Health Promotion Intervention Based on a Participatory Ergonomic Approach—The Housewives Ergonomic Intervention (HEI) Trial
Samaneh Norouzi

Describing team membership during maternal hemorrhage events
Kaitlyn Dallas

A comparative evaluation of the effectiveness of a variety of back-support exoskeletons for manual material handling tasks
Rahul Narasimhan Raghuraman

IEA / ISO 1

August 27 (Tue) | 10:15-11:45 | 2F 202A

Topics of ISO TC159

[Chair] Shin'ichi Fukuzumi

Ergonomics aspect of Activity-Based Working: Towards International Standardization
Kei Hyodo, Shin'ichi Fukuzumi, Keiko Kasamatsu

ISO 27500 and ISO 27501: Achievement of Human-centered Organization
Yui Endo

Standardization of HCD for Services
Masaaki Mochimaru

Standardization of Accessible Design in Ergonomics Field
Nana Itoh and Ken Sagawa

Methods and Considerations for an Analysis of 3D Human Scan Data
Heecheon Yoo

Accessibility: From ISO Standards to Domestic Guidelines
Seongil Lee

SYM 15 I SYM-Informal Work

August 27 (Tue) | 13:15-14:45 | 3F 301

[Special Session] Physical Ergonomics and Psychosocial Hazards of Informal Work

[Chair] Bernard J. Martin

SYM 15-S-1 Ergonomics of Informal E-waste Processing in Ghana
Bernard Martin, Augustine Acquah, Julius Fobil and Clive D'Souza.

SYM 15-S-2 Contribution of Ergonomics and Human Factors to the informal labor in Latin America
Acran Salmen Navarro, Arlen Garagay and Clive D'Souza.

SYM 15-O-3 Ergonomic Interventions in Indian Informal Sectors
Prof.Dr.Somnath Gangopadhyay.

SYM 15-O-4 NARRATIVE REVIEW ON ERGONOMICS AND INFORMAL WORK IN INDIA
Mohammad Muzammil, Abid Khan and Clive D'Souza.

SYM 15-S-5 LOW BACK PAIN AMONG WELDERS IN AN INFORMAL SECTOR OF GHANA
Ethel Gyamfi, Emmanuel Gyenin, Ibrahim Issah, Augustine Acquah, Bernard Martin and Thomas Agyekum.

SYM 15-S-6 Ergonomics of Life of Nomadic Herders in Mongolia: The Role of Technology in the Face of Psychosocial Disorders
Isabelle Lacharme.

SYM 19 I SYM-Biomechanics-based AI

August 27 (Tue) | 13:15-14:45 | 4F 402A

[Special Session] Development of a biomechanics-based AI model for early detection of Parkinson's disease

[Chair] Kijung Park

SYM 19-S-1 Automated sarcopenia diagnosis for Patients with Parkinson's Disease Based on an Explainable Artificial Intelligence Approach
Jungyoon Moon, Junwoo Kim, Kijung Park, Kiwon Park and Ryul Kim.

SYM 19-S-2 Machine learning for Parkinson's disease classification
Hyundoo Jeong.

SYM 19-S-3 Biomechanical Characterization of Posture and Gait in Patients with Parkinson's Disease
Kiwon Park and Ryul Kim.

SYM 19-S-4 Cognitive Ability Degradation Prediction with Posture and Gait Patterns of Patients having Parkinson's Disease
Jaehong Yu, Kiwon Park and Ryul Kim.

CES-Aging I CES Aging

August 27 (Tue) | 13:15-14:45 | 4F 402A

[Chair] Xiaoli Wu

CES-Aging-O-1 Ergonomics Data Measurement Service Design for the Elderly in the Urban Community
Zhelin Li, Jiayi Su, Xinyue Cao, Yuting Bai, Shutong Zhao and Lijun Jiang.

CES-Aging-O-2 Multi-Dimensional Elderly User Portraits Based on South China Region
Zhelin Li, Yuting Bai, Lijun Jiang, Jiayi Su and Yulin Tan.

CES-Aging-S-3 A Study on the Acceptance of Assisted Driving Systems for Elderly Drivers
Hengrui Guo and Hua Qin.

CES-Aging-S-4 Research on the Demand and Product Design of Long-term Care Services for the Disabled Elderly in the Community
Yuhan Wu, Xiaoli Wu, Xilu Tang and Chengqi Xue.

CES-Aging-S-5 The Construction of Community Service Facilities System on Age-Friendly
Xiaoman Jiang, Xiaoli Wu, Xilu Tang and Chengqi Xue.

CES-Aging-S-6 Research on the Interactive Design Strategy of Smart Community Elderly Care Service from the Perspective of Contextual Awareness
Qihan Guo, Lian Liu and Xing Fang.

CES-Design I CES Design

August 27 (Tue) | 13:15-14:45 | 4F 402B

[Chair] Long Liu

CES-Design-S-1 Quantifying spatial ability through digital traces in mobile navigation games
Yifan Zhu, Yanling Zuo, Guolong Sun and Jia Zhou.

CES-Design-S-2 Modelling Collective Intelligence in Medical Co-Design: A Preliminary Study
Yue Jiang, Jing Chen, Long Liu and P. John Clarkson.

CES-Design-S-3 Hi, Xiao Yi, Can You Teach Me About This Concept: The Impact of Metaphorical Strategies on User Experience in Intelligent Voice Interaction
Yanqin Dong, Zhe Chen and Kai Huang.

CES-Design-S-4 Effects of Communication Factors on Medication Administration Errors: An Analysis Based on System Dynamics Modeling
Haizhe Jin, Zhibin Xiao, Yingchun Xu and Yongyan Fu.

CES-Design-S-5 Information Representation Method of Information Interface with Coupled Visual Task Information Flow and Physiological Cognition
Xiaoli Wu, Zexi Fang and Xiaoman Jiang.

CES-Design-S-6 Understand Physicality of Interaction for Design from Technology Mediation Perspective
Xiaoshan Wang and Long Liu.

CES-Design-S-7 Natural Warmth: An Exploration Based on Human, Paper, Objects and User Experience
Binxue Wang, Junzhe Deng and Min Li.

HFE-x

August 27 (Tue) | 13:15-14:45 | 3F Halla B

[Chair] Sungho Kim

HFE-x-S-1 -
-

HFE-x-S-2 Patient Handling-related Injuries and Mitigation Strategies
Rammohan V. Maikala

HFE-x-S-3 Patients and Caregivers are Healthcare's Hidden, Neglected, Informal Workers
Shanqing Yin

HFE-x-S-4 Soon in a hospital near you? Human factors research in non-academic community hospitals
Victor Cornet

HFE-x-S-5 Assess the impact of different forearm postures on young adults grip strength
Abdulelah Ali

Panel Discussion 12

August 27 (Tue) | 13:15-14:45 | 3F 303B

Human Factors in Robotics: Current Issues and Emerging Trends [Chair] Sascha Wischniewski

Dynamics of Task Automation and Advanced Robotics: Impacts on the Workforce
Patricia H. Rosen

Industry 5.0: Human-Friendly Automation and its Applicability
Verena Nitsch

Multi-Factor Ergonomics and Risk Mitigation in Robotics
Arash Ajoudani

Ergonomic Strategies for Optimizing Human-Robot Interaction in Industry 5.0
Wansoo Kim

EC 2

August 27 (Tue) | 13:15-14:45 | 3F Samda A

IEA "Ergonomics in a nutshell" Publications:
communicating directly to key stakeholder groups

Nancy Black

Andrew Thatcher

Karen Lange Morales

David Caple

IEA / ISO 2

August 27 (Tue) | 13:15-14:45 | 2F 202A

Activities related to HFE

[Chair] Shin'ichi Fukuzumi

Standardization of Guidance on Robotic, Intelligent, and Autonomous Systems in ISO/TC159/SC4/WG6
Daiji Kobayashi

Introduction of SQuaRE Standard Series
HyunChong Kim

Standardization activities of IEC TC 110 Electronic displays - toward the future of human interfaces and their applications
Shin'ichi Uehara, Kei Hyodo, Yoshihiko Shibahara

International Standardization Activities for Automotive Ergonomics/Human Factors
Motoyuki Akamatsu

Current health data standardization direction and policy in Korea
Jae Ho Lee

HFE standardization and certification in China
Chaoyi Zhao

Workshop 5

August 27 (Tue) | 13:15-16:30 | 3F 303A

Could Enhancing Future Humans Lead to Humanity-Centered Design for Improved Life Ergonomics in Digital Health?

[Chair] Federica Masci, Tommaso Bellandi

Surprising gender biases in GPT
VALERIO CAPRARO

Electronic medical record downtime: A risky time for patients
MELISSA BAYSARI

Collaborative technologies : between promises and reality about work transformations
BARCELLINI FLORE

AI-powered Chatbots: Effectiveness of Communication Styles for Attitude Change
ENNIO BILANCINI

The contribution of technology and AI to the strategic management for digital development in healthcare
SARA ALBOLINO

SYM 20 I SYM-Smart Manufacturing

August 27 (Tue) | 15:00-16:30 | 2F 202B

[Special Session] Design for 3D printing and smart manufacturing [Chair] Seung Ki Moon

SYM 20-S-1 Multi-sensor fusion and rule based machine learning for quality prediction in additive manufacturing
Lequn Chen and Seung Ki Moon.

SYM 20-S-2 Design Exploration for Additive Manufacturing with Generative Models
Jungyoon Moon and Kijung Park.

SYM 20-S-3 Comparison of Hand Classification Approaches Using Three Clustering Methods
Sung Hee Ahn.

SYM 20-S-4 Design for additive manufacturing of interface for high joining between metal and polymer via computer-aided engineering
Seong Je Park and Seung Ki Moon.

SYM 20-S-5 Modeling and Prediction of Curing Depth in CNT-Reinforced Resins for Vat Photopolymerization 3D Printing
Taehyub Lee, Wonhee Lee, Eui-Hyuk Kim and Yong-Jin Yoon.

CES-AI I CES AI and Intelligent Technology

August 27 (Tue) | 15:00-16:30 | 4F 401A

[Chair] Tingru Zhang

CES-AI-S-1 Evaluating Human Trust States in Human-AI Collaboration during Driving Using EEG: A Machine Learning Approach
Song Ding and Xing Pan.

CES-AI-S-2 A Pilot Study Exploring User Needs and Expectations for AI-Based Academic Search Tools
Hanbyeol Choi and Lin Wang.

CES-AI-S-3 THE IMPACT OF EXPLAINABILITY AND RELIABILITY ON HUMAN-AI COLLABORATIVE DECISION-MAKING
Yuanjia Zheng and Tingru Zhang.

CES-AI-S-4 User Acceptance of Large Language Model-Powered Conversation Agents for Mental Health Support
Nuo Cheng, Ruifeng Yu and Xuanzhi Wang.

CES-AI-S-5 Real or virtual? The effects of appearance, voice and VR for AIGC on learning performance and interactive experience
Qianxi Xiao, Zhe Chen and Yihang Lv.

CES-AI-S-6 Information Support for Human Error Prevention During Augmented Reality Assisted Manual Assembly
Junfeng Wang, Ting Shi and Hui Xiong.

CES-Physical I CES Physical Ergonomics and System Safety

August 27 (Tue) | 15:00-16:30 | 4F 402B [Chair] Ronggang Zhou

CES-Physical-S-1 Evaluation of Mattress Surface Curves with sEMG and Body Pressure Distribution Analysis Based on Vacuum Mattress
Jing Zhang, Ying Gao, Mengchen Tang, Liwen Bi, Chengzhao Zou, Fujun Zhang, Fanglai Yao and Li Ding.

CES-Physical-S-2 A simulation research on the thermal comfort of pilots in air ventilation clothing during high-altitude and high-temperature operations
Qing Zhang, Wenshan Yang, Chengyi Liu, Jiachen Nie, Li Ding and Lihao Xue.

CES-Physical-S-3 Effects of different proficiency levels on the assembly operation time distribution
Xuanzhu Wan, Deyu Sun, Jingfei Wang, Xiaonan Yang, Chengshun Li and Hongwei Niu.

CES-Physical-S-4 The influences of driving style on take-over in automated driving
Yaping Zhang and Ronggang Zhou.

CES-Physical-S-5 Effects of lower-limb Exoskeleton on Human Trust
Jing Qiu

Panel Discussion 13

August 27 (Tue) | 15:00-16:30 | 4F 402A

Bringing Inclusion and Accessibility to the forefront of HF/E Worldwide [Chair] Jonathan Davy

Rose Figueroa, PhD, CHFP
CEO at belongIN; Principal Consultant at Rimkus; Board of Directors for Board of Certification for Professional Ergonomics (BCPE); Secretary-Treasurer Elect for the Executive Council at Human Factors & Ergonomics Society (HFES)

Chris Reid, PhD
Technical Fellow - Human Factors & Ergonomics at Boeing; ASTM International Board of Directors; Adjunct Professor of Practice at Clemson University

Kathryn Woodcock, PhD, CCPE, ICAE, P.Eng.
Professor at Toronto Metropolitan University; ASTM F24 Executive Council

Farzan Sasangohar, PhD
Texas A&M University College of Engineering; Editor-in-chief of Human Factors in Healthcare, Conference Program Chair for Human Factors & Ergonomics Society (HFES)

Carrie Lin, CPE, MD, MS
Associate Technical Fellow - Human Factors and Ergonomics Engineer at Boeing

Jonathan Davy, PhD
Senior Lecturer at Rhodes University; Chair of Communications and Public Relations at International Ergonomics Association (IEA)

EC 3

August 27 (Tue) | 15:00-16:30 | 3F Samda A

The Future of Work and the challenges posed for ergonomics and human factors

Andrew Thatcher

Wei Zhang

CES-Biophysical I CES Physical, Biological Ergonomics and Mental Models

August 27 (Tue) | 16:45-18:15 | 4F 402B [Chair] Haizhe Jin

CES-Biophysical-S-1 Modeling of human heat strain detection based on EEG signals
Yuran Huang, Jiangfeng Song, Junhui Huang, Mengxin Yin, Li Ding and Bo Chen.

CES-Biophysical-S-2 THE EFFECTS OF DIFFERENT INTERRUPTION CONDITIONS ON MENTAL WORKLAND: AN EXPERIMENTAL STUDY BASED ON MULTIMODAL MEASUREMENTS
Pengyu Qu, Liyuan Liu, Haizhe Jin and Fu Guo.

CES-Biophysical-S-3 Prediction of human local skin temperature under hypobaric hypoxia indoor environments using a self-adaptive thermal manikin
Jiachen Nie, Yiran Chen, Weijia Sheng, Qing Zhang and Li Ding.

CES-Biophysical-S-4 Response of pulmonary function and metabolic rate after heavy object handling at high altitudes
Chao Sun, Junsheng Zhou, Jie Chen, Li Ding, Yiyang Zhao, Jiachen Nie and Xiaojuan Bai.

CES-Biophysical-S-5 Changes of sEMG Characteristics and Rated Perceived Exertion (RPE) Scale with Weight-Bearing Walking at Acute Hypobaric Hypoxia Environment
Jing Zhang, Jianlin Liu, Chao Sun, Jiachen Nie, Jiayin Li, Wanjing Jia, Xinli Yu and Li Ding.

CES-Smart Device I CES Smart Devices

August 27 (Tue) | 16:45-18:15 | 3F 301

[Chair] Na Liu

CES-Smart Device-S-1 The Impact of Intelligent Speaker Shopping Advertising Style and Rhyme on User Experience and Behavior
Jichen Ban, Zhe Chen and Qifang Yu.

CES-Smart Device-S-2 Distance Matters: Analyzing How Proximity and Interaction Mode Influence User Perception in Smart Homes
Na Liu, Yiwei Xiong and Yan Shi.

CES-Smart Device-S-3 Research on Interactive Guidance Design in Metaverse Education and Training Systems
Shan Hu, Bingxin Zhang, Jitong Zhang, Weitao Jiang and Lingda Ron.

CES-Smart Device-S-4 Evaluating Usability and Cognitive Workload of In-Car Voice Assistants: An Empirical Study
Jun Tan and Jing Yang.

CES-Smart Device-S-5 Enhancing Manned Confined Space Layout Assessment through Artificial intelligence algorithm-driven Optimization for Operational Posture Comfort
Yao Wang, Yiwei Sun, Ning Xie and Dengkai Chen.

CES-Smart Device-S-6 Speech-driven Gesture Reenactment based Human-Computer Interaction Method for Smart Exhibition
Zeyu Zhao, Guixuan Zhang, Zhi Zeng and Shuwu Zhang.

Panel Discussion 14

August 27 (Tue) | 16:45-18:15 | 3F 303B

Strategies for capacity building in healthcare ergonomics: Early career researchers and practitioners

[Chair] Adeola Bamgboje-Ayodele

What are the contextual differences between HF/E researchers and embedded HF/E practitioners?
Adeola Bamgboje-Ayodele

What are some of the domain-specific challenges ECR/Ps may encounter and how can one navigate these? How do these differ for research and practice?
Melissa Baysari

What are some of the unique opportunities in the healthcare domain that make working/having a career in this domain rewarding?
Ken Catchpole

How can ECR/Ps enhance their own professional development and what is the role of the IEA and national bodies?
Thomas Jun

How can early career HF/E researchers and practitioners collaborate to support each other more?
Marie Ward

EC 4

August 27 (Tue) | 16:45-18:15 | 3F Samda A

IEA Webinars – resources & opportunities

Nancy Black

Rosemary Seva

Margaret Graf

IEA / ISO 3

August 27 (Tue) | 16:45-18:15 | 2F 202A

Topics of ISO TC159 and Panel discussion/ Round table:
Contribution of IEA to HFE standardization

[Chair] Yushi Fujita

How should IEA promote HFE through international standardization?
Yushi Fujita

AGS shortens the way of IEA ergonomic findings to ergonomic standards
Jochen Eckardt

AGS bridges IEA and general/OSH practice through HFE standardization
Peter Nickel

AGS increases people's awareness both among ISO and IEA
Anindya Ganguli

Integrating to bridge the gap - finding the middle ground in standardization
Grace Kennedy

AGS provides platforms for discussing up-to-date topics such as new ISO directives and directions
Jonathan Earthy

AGS helps companies to manage and implement HFE through standardization
Manoela Lahoz

Special Sessions

DAY 3
August 28
(Wed)

- SYMPOSIUM 21, 22, 23, 24, 25, 26, 27
- Doctoral Colloquium
- CES-COG 1, COG 2, HMI, Interact, Transport, Health, COMM&SM
- Panel Discussion 15, 16
- Workshop 6, 7, 8
- EC 1, 5

Panel Discussion 15

August 26 (Mon) | 13:15-14:45 | 4F 402B

What Have We Learned from Developing/Delivering Human Factors-based Patient Safety Training for Healthcare Workers: Progress, Challenges, and Ways Forward

[Chair] Gyuchan Thomas Jun

Discussing the integration of socio-technical systems approaches in acute care, emphasizing the need for clinicians to adopt systems thinking and supporting HF practitioners in their challenging roles.
Ken Catchpole

Highlighting the growth of HF expertise in Alberta's healthcare system since 2005, with a focus on adaptive training methods for clinical and non-clinical audiences, and the shift towards online learning.
Jonas Shultz

Exploring Singapore's mandate for HF analysis in healthcare, emphasizing the need for formal HF specialists to handle complex scenarios and the importance of basic HF knowledge for safety improvements.
Shanqing Yin

Discussing Italy's inclusion of HFE in patient safety policies since 2004, the role of HFE in digital health transitions, and the need for more professional ergonomists in healthcare organizations.
Tommaso Bellandi

Addressing the integration of HFE to improve patient safety in low- and middle-income countries, focusing on the progress, challenges, and need for more actions and training in the Latin American context.
Angela Caro Rojas and Carlos Aceves

Presenting the NHS England's new Patient Safety strategy and the comprehensive blended learning program for over 800 patient safety specialists across various healthcare providers.
Mike Fray and Gyuchan Thomas Jun

SYM 21 | SYM-Psychophysiological Measurement

August 28 (Wed) | 10:15-11:45 | 3F 301

[Special Session] New trends in the application of psychophysiological measurements in ergonomics

[Chair] Mieko Ohsuga

SYM 21-S-1 Visualization of Deep Body/skin Temperature and Sleep-Wake Rhythm and Concept of Life Pattern Improvement Support System
Mieko Ohsuga and Hidenori Boutani.

SYM 21-S-2 Low Burden Multidimensional Physiological Measurements Toward Estimation of Excavator Operator Condition
Naohito Yoshioka, Hiroki Takeuchi, Yuzhuo Shu, Taro Okamatsu, Nobuyuki Araki, Yoshiyuki Kamakura and Mieko Ohsuga.

SYM 21-S-3 Earable-based Posture Inference and Correction System for Deskwork Behavior Transformation
Yilizati Abulaiti, Shoko Kimura and Guillaume Lopez.

SYM 21-S-4 Examining the possibility of expressing teachers' intentions and enthusiasm in online lectures using audio vibration stimuli
Satori Hachisuka, Kayoko Kurita and Shinich Warisawa.

SYM 21-S-5 Evaluation for AR-based Facial Expression Transformation System for Minimizing Social Anxiety in Interpersonal Situations
Teruchika Ikeda, Kentaro Kotani, Satoshi Suzuki and Takafumi Asao.

SYM 21-O-6 Application of Wearable Facial Electromyography Device with Human Metrics Explorer System in Virtual Reality Experiences
Koichi Murata, Akane Kitagawa, Kotaro Ryu and Masafumi Furuta.

SYM 22 I SYM-EWAT-Transition Training August 28 (Wed) | 10:15-11:45 | 3F 303A

[Special Session] Developing expertise in situations of transition: from the technological changeover to crisis management

[Chair] Marta Santos

SYM 22-O-1 HOW DO CRISIS MANAGERS DEVELOP EXPERTISE THROUGH SIMULATION TRAINING? THE CASE OF NUCLEAR TECHNICAL EXPERTS
Elleke Ketelaars, Simon Flandin, Elsa Gisquet, Artemis Drakos and Germain Poizat.

SYM 22-S-2 Introducing New Technological Tools into the Work of Dual-Training Teachers Through a Co-Development Project
Myriam Bérubé, Marie Laberge and Céline Chatigny.

SYM 22-S-3 A technological implementation for improve maritime firefighting training or an opportunity to (re)think training contents and project management
Annaëlle Soulet, Lauriane Roger and Catherine Delgoulet.

SYM 22-S-4 Challenges in mobilizing workers' experience and development in a technological transition project
Marta Santos, Cláudia Pereira, Maria Antónia Cadilhe and Liliana Cunha.

CES-COG 1 I CES Cognitive and Behavioral (1) August 28 (Wed) | 10:15-11:45 | 3F Halla B

[Chair] Juhua Jiang

CES-COG 1-O-1 A Study of Cognitive Resource Allocation in Complex Information Systems Based on Eye Tracking
Wenjun Hou, Yuhan Jin and Gexin Guo.

CES-COG 1-S-2 THE INFLUENCE MECHANISM OF MULTIPLE FACTORS ON THE WORK PERFORMANCE OF HEALTHCARE WORKERS: AN ANALYSIS BASED ON SYSTEM DYNAMICS
Junnan Zhou, Haizhe Jin and Fu Guo.

CES-COG 1-S-3 An ergonomic study on the flicker of nuclear symbol frame based on attention capture
Qian Li, Xiaoli Wu and Xingcan Yang.

CES-COG 1-S-4 Research on truck mass estimation based on Long Short Term Memory Network
Jiazhen Hu, Xiaoyan Shen, Shasha Wang and Xinyu Sui.

CES-COG 1-S-5 Reflections on a Neurocognitive Experimental Design For Interdisciplinary Group Decision-Making In The Selection Phase Of Cruise Ship Cabin Design Options
Kexin Cheng and Zuhua Jiang.

CES-COG 1-S-6 Impacts of Font Size and Stroke Width of Chinese Characters on the Legibility under Vibration
Yuzhen Wang, Ruifeng Yu and Ei Jia.

CES-HMI I CES Human-Machine Interaction

August 28 (Wed) | 10:15-11:45 | 4F 402B

[Chair] Chaoyi Zhao

CES-HMI-S-1 Research on Intelligent Human-computer Interaction Standards
Chaoyi Zhao, Linghua Ran, Huimin Hu, Aixian Li, Wei Li and Wenxing Ding.

CES-HMI-S-2 Utilizing Eye Tracking Data to Determine Operator Trust in Automated Supervisory Control Tasks
Keran Wang, Wenjun Hou, Huiwen Ma and Leyi Hong.

CES-HMI-S-3 Human-Machine Function Allocation Method Based on a Non-Cooperative Game for the Manned Submersible
Wenyi Liao, Dengkai Chen, Yidan Qiao, Hanyu Wang, Zhiming Gou and Yang Yang.

CES-HMI-S-4 The influence and promotion of sense of joint agency on collaborative task performance
Siyu Zhu, Mengfan Wang and Xiaolei Song.

CES-HMI-S-5 An Integrated Ergonomic Evaluation Method for the Comfort of Multifunctional Integrated Tractor Handle
Haoming Huang, Boyu Xu, Guijun Fu, Jiaoli Xie and Xiaoping Jin.

DOCQ I Doctoral Colloquium

August 28 (Wed) | 10:15-11:45 | 3F Samda A

[Chair] Sung-Hee Kim

DOCQ-S-1 AI-Based Human Modeling for Optimizing Driving Comfort in Autonomous Vehicle
Yein Song

DOCQ-S-2 Human Motion Prediction for Automotive Ergonomics Design
Estela Perez Luque

DOCQ-S-3 Presenting a model to evaluate and improve the system performance and safety of emergency department patients using macroergonomics and simulation approaches
Hamidreza Mokarami

DOCQ-S-4 Asymmetric collaboration in product development
Francisco Garcia Rivera

DOCQ-S-5 Real-Time Adaptive Interface as a Decision Support Tool in Complex and Dynamic Environments
Hyun-Gee Jei

SYM 23 I SYM-Future Healthcare

August 28 (Wed) | 13:15-14:45 | 3F 303A

[Special Session] Decoding the future of healthcare work

[Chair] Maxie Lutze

SYM 23-S-1 A User Centered Approach for the design of a generic AI based assistant system for work activities.
Moustafa Zouinar, Kahina Amokrane-Ferka and Virgil Rousseaux.

SYM 23-S-2 HUMAN-CENTERED AI DESIGN TO CHALLENGE HEALTH AND INDUSTRIAL PERFORMANCE : INTEREST OF A MIXED IT-ERGONOMIST PROJECT TEAM.
Landry Aurélie and Pellier Damien.

SYM 23-O-3 Reducing the workload with software? Digitisation and automation of nursing work in hospitals
Julia Bringmann.

SYM 23-O-4 AI in Healthcare – Does Smarter Work Equal Strain Reduction?
Katharina Dassel and Maxie Lutze.

SYM 23-S-5 Artificial intelligence to reduce nurse burnout
Chiyoung Cha, Gumhee Baek and Aram Cho.

SYM 23-S-6 AI at work: Critical Perspectives in Ergonomics and Economics on Issues Regarding Work and Employment
Flore Barcellini, Gamkrelidze Tamari, Greenan Nathalie, Annie Jolivet and Moustafa Zouinar.

CES-COG 2 I CES Cognitive and Behavioral (2)

August 28 (Wed) | 13:15-14:45 | 3F 303B

[Chair] Ruifeng Yu

CES-COG 2-S-1 Cognitive flexibility in different modalities and its relationships with cognitive styles
Hanjing Huang, Zhi Guo and Pei-Luen Patrick Rau.

CES-COG 2-S-2 Short-term social media abstinence and self-monitoring intervention: higher life satisfaction and positive affects
Shuo Peng and Ruifeng Yu.

CES-COG 2-S-3 Influence of Parent-child Relationship on Middle-aged and Elderly People's Misuse of Social Media
Lulu Wang, Ruifeng Yu and Zhecheng Wang.

CES-COG 2-S-4 Ergonomics evaluation modeling of multi-modal interaction technology for airplane cockpit and experimental validation
Lin Ding, Minhui Yuan and Ruifeng Yu.

CES-COG 2-O-5 Moderation Effect of Incentives Between Personality and Intention of Providing High-quality Reviews(IPHR)
Haiying Wang, Siyu Chen, Qian Jue, Liu Chang and Lin Wang.

CES-COG 2-S-6 The Impact of Intelligent Agent Voice Gender and Pitch on Driver Perception in Autonomous Driving
Yonghao Huang and Wei Zhang.

CES-Interact I CES Intelligent Interaction August 28 (Wed) | 13:15-14:45 | 4F 402B

[Chair] Canqun He

CES-Interact-S-1 A Research Pathway for Interaction Design of Home-Based Elderly Care Service Robots Based on Scenarios
Canqun He, Pengjie Shi and Xiaomeng Sun.

CES-Interact-S-2 Do you feel different when your voice assistant says overlapping words? The impact of voice interaction assistant overlapping syntax application on user experience
Feiyu Huang and Zhe Chen.

CES-Interact-S-3 The Uncanny Valley Effect of the New Age: the users' reactions when the voice assistants have thoughts and emotions
Ran Zhao and Zhe Chen.

CES-Interact-S-4 Exploring the Impact of Virtual Instructor's Attributes on Cognitive Load in Health Short Videos
Yichen Guo, Mengli Yu and Zhenkun Zhou.

CES-Interact-S-5 Applied Research on Gamification-based Intelligent Interaction Design of Smart Traffic Digital Twin Model
Tianlun Yang, Zuyao Wang, Georgios Kapogiannis, Byung-Gyoo Kang, Zhenyu Hu, Yanhui Wu, Shengyuan Liu and Yuchang Zhang.

CES-Interact-S-6 Enhancing Industrial Decision-Making with a Real-Time Production Data-Driven AI Decision Support System
Xianwen You, Sheng Su and Changxu Wu.

EC 5 August 28 (Wed) | 13:15-14:45 | 3F Samda A

EC Session: What is an IEA Technical Committee and why should you care?

Nancy Black

Rosemary Seva

SYM 24 I SYM-ATWAD-WWCS

August 28 (Wed) | 15:00-16:30 | 3F 302

[Special Session] ATWAD-WWCS Questioning technologies and models to support sustainability within design activities and processes

[Chair] Flore Barcellini

SYM 24-S-1 CIRCUMSCRIBING COLLABORATION IN DESIGN: HIERARCHY AND CONSTRUCTIVE CONFLICT
Francoise Detienne and Michael Baker.

SYM 24-S-2 A Framework to Analyze Productive and Constructive dimension of Collaborative Activities during Ergonomics' Simulation
Flore Barcellini.

SYM 24-O-3 SIMULATION AND INTERMEDIARY OBJECT SYSTEMS: STRATEGIES FOR STRUCTURING AN ERGONOMIC DESIGN APPROACH
Barbara Oggioni, João Marcos Bittencourt, Camila Marins, Francisco Duarte and Pascal Béguin.

SYM 24-O-4 Design Review and ergonomics: support and limitations of digital technologies in oil platform projects
Camila Marins, Francisco Duarte and Valérie Pueyo.

SYM 24-S-5 SUPPORTING CO-CREATION PROCESSES WITH REPRESENTATIONAL ECOSYSTEMS : LESSONS LEARNED FROM A 2-YEAR PARTICIPATORY DESIGN PROJECT
Stéphane Safin, Aliénor Morvan and Françoise Détienne.

SYM 24-O-6 A SENSITIVE APPROACH TO DESIGN METHODS
Christelle Casse and Adeline Masson.

SYM 26 I SYM-HRI Workplace

August 28 (Wed) | 15:00-16:30 | 4F 401B

[Special Session] Human-Robot Interaction in the Workplace

[Chair] Jaeyong Choi

SYM 26-S-1 The Cognitive Impact of Back-Support Exoskeleton Use on Hazard Identification and Brain Activation
Hyewon Seo, Sogand Hasanzadeh, Behzad Esmaeili and Shiva Pooladvand.

SYM 26-S-2 Learning based Dynamic Adaptation Planning for Human and Indoor Delivery Robot Interaction
Eunsung Kim, Woojin Wie, Mingyu Jeong, Ga Eun Lee and Andrew Jaeyong Choi.

SYM 26-S-3 Development of an AI-based automation system for casting post-processing
Hyun-Soo Yoon, Gyogwon Koo, Hyunki Lee and Yonghyeon Kim.

SYM 26-O-4 Fostering Human Agency and Autonomy in Human-Robot Interaction: An Interdisciplinary Approach for Industry 5.0
Luisa Vervier, Sebastian Pütz, Philipp Brauner, Ralph Baier, Sebastian Bernhard, Hannah Dammers, Felix Glawe, Moritz Lennartz, Jared Parmer, Calvin Röhl, Alexander Schollemann, Thomas Gries, Carmen Leicht-Scholten, Alexander Mertens, Saskia Nagel, Günther Schuh, Verena Nitsch and Martina Ziefle.

SYM 26-S-5 Exploratory Assessment of Cognitive Workload in Collaborative Manufacturing: Human-Human vs. Teleoperator-Robot-Human
Sakshi Taori, Sunwook Kim and Sol Lim.

SYM 26-O-6 Exploring factors associated with trust for intention to use medical robots in human-robot physical interaction
Sangyeon Kim, Patrick Seebold and Chang S. Nam.

SYM 26-S-7 Communication of Safety Area Violations in Interactions with Industrial Autonomous Mobile Robots
Nicolas Niessen, Sophie Ziegler and Klaus Bengler.

CES-Transport I CES Transportation Ergonomics

August 28 (Wed) | 15:00-16:30 | 4F 402B [Chair] Fu Guo

CES-Transport-S-1 The effect of augmented reality head-up displays interface layout on driving behavior: a systematic literature review
Jingjing Cao, Yanling Zuo, Peggy Wang and Jia Zhou.

CES-Transport-S-2 Effects of ambient lighting conditions and HUD luminance on driver visual attention
Yuning Wei, Peiyan Duan, Qingyang Huang, Mingyang Guo, Jingyuan Zhang, Xiucheng Xu and Xiaoping Jin.

CES-Transport-S-3 Improving Pilot Safety Performance Assessment: A Focus on Human Errors with Fuzzy Bayesian
Chongfeng Li, Ziyao Li and Xing Pan.

CES-Transport-S-4 The effect of in-vehicle agent interaction on driver interaction experience and driving behavior
Fu Guo, Zenggen Ren and Sen Li.

CES-Transport-S-5 Research on Subway Guide Information Design Strategy Based on HIP odel
Lian Liu, Qihan Guo and Xing Fang.

CES-Transport-S-6 Fatigue Driving Detection Algorithm Based on Multi-Feature Fusion
Chengming Chen, Meng Zhou, Xinyue Liu, Pengfei Zhang and Renjie Wei.

Panel Discussion 16

August 28 (Wed) | 15:00-16:30 | 3F 303B

Human Factors considerations for making clinical decision support work in practice [Chair] Melissa Baysari

Discussing the drivers for CDS selection and the importance of evidence in CDS implementation, highlighting issues with applying CDS without understanding the problem or robust evidence.
Melissa Baysari

Presenting a Human Factors-informed model for CDS use, based on developing a tool for risk-screening older adults in Emergency Departments.
Hanna J. Barton

Exploring clinicians' acceptance and use of CDS over time, based on her PhD research, including factors influencing CDS use from implementation to routine practice.
Nicki Newton

Introducing a vendor-agnostic guideline for CDS selection, design, and optimization, addressing alert fatigue and providing governance and design principles.
Selvana Awad

Discussing the design and implementation of CDS for diagnosing pulmonary embolism in emergency departments, offering a workflow integration model and recommendations for human-centered design.
Megan E. Salwei

Workshop 6

August 28 (Wed) | 15:00-16:30 | 4F 402A

Human-in-the-loop AI: a collaborative intelligence system for co-evolution

[Chair] Sungjoo Lee

Exploring interaction methods between experts and artificial intelligence: A perspective on technology forecasting

Leehee Kim, Sungjoo Lee

Human-AI interaction in technology forecasting: Designing interface for effective collaborative teaming

Jane Lee, Jaehoo Bae, Eunseo Ryu, Honghua Lyu, Myung Hwan Yun

What is required to impress upon the market the image that a brand contributes to a better life?

Mintak han

The impact of generated chunk size on performance in language model-assisted writing: An empirical assessment

Taeyoung Park, Jongwook Lim, Yoo Suk Hong

Design of a human-in-the-loop AI system for patent analysis

Youngjung Geum, Jinhong Kim, Leehee Kim, Jinseob Kim, Sungjoo Lee

Workshop 8

August 28 (Wed) | 15:00-16:30 | 3F 303A

Climate Change and its challenges for Human Factors and Ergonomics (IEA-EC initiated)

[Chair] Sascha Wischniewski

Thomas Alexander

Head of Division Products and Work Systems, BAuA, Germany

Andrew Thatcher

Professor, Chair of Organisational/Industrial Psychology, University of Witwatersrand, South Africa

Barry Kirby

Managing Director, Rheolwr Gyfarwyddwr / President, The Chartered Institute of Ergonomics and Human Factors, United Kingdom

Karen Lange-Morales

Associate Professor, School of Industrial Design, Universidad Nacional de Colombia

Sascha Wischniewski

Head of Unit Human Factors, Ergonomics at BAuA, Germany / Chair of the IEA's Technical Committee Human Factors in Robotics

EC 1

August 28 (Wed) | 15:00-16:30 | 3F Samda A

Meet the IEA Executive

[Chair] Maggie Graf

Members of the current and future IEA Executive committee present their work and answer questions

Maggie Graf

Workshop 7

August 28 (Wed) | 15:00-16:30 | 2F 202B

Reshaping the Future of Human-AI Interaction:
Accelerating innovation through design thinking

[Chair] Hyochang Kim

Young Woo Kim

Hyunmin Kang

Seoyoung Kim

Hyochang Kim

Min Chul Cha

SYM 25 I SYM-Medication Safety

August 28 (Wed) | 16:45-18:15 | 4F 402B

[Special Session] Design of Human-centered Process for Medication Safety

[Chair] Angela Caro Rojas

SYM 25-S-1 Optimizing clinical decision support to minimize drug-drug interactions in hospitalized patients: An ongoing challenge
Melissa Baysari, Ling Li, Sarah Hilmer, Richard Day, Bethany Van Dort, Kristian Stanceski, Renee Quirk, Danielle Deidun, Maria Moran, Nanda Aryal, Johanna Westbrook, Wu Yi Zheng, Andrew Hargreaves, Jannah Baker, Peter Kennedy and Camerine Ballantine.

SYM 25-S-2 Using Systems Engineering to Enhance Anesthesia Medication Safety
Ken Catchpole, Jake Abernathy and David Neyens.

SYM 25-S-3 Standards for the shape and labelling of medication vials
Yuval Bitan.

SYM 25-S-4 Human-centred labelling design ¿How to measure if it works?
Angela Caro-Rojas, Adriana Aristizabal and Carlos Aceves-González.

SYM 27 I SYM-Ergonomics Smart Healthcare

August 28 (Wed) | 16:45-18:15 | 3F 303A

[Special Session] Ergonomics in smart healthcare technologies design

[Chair] Yan Luximon

SYM 27-S-1 Analyzing Gender-Related Variations in Head Morphology among Malaysian Adults
Zhuoman Liu, Yan Luximon, Wei Lin Ng and Eric Chung.

SYM 27-S-2 Enhancing Motion Guidance in Virtual Reality: The Effect of Vibrotactile and Visual Feedback in Different State of Motion
Jiaxin Zhang, Yunlu Ding and Hualin Zhang.

SYM 27-S-3 Construction Safety Research in Hong Kong: Current Status and Future Scope
Vigneshkumar Chellappa and Yan Luximon.

SYM 27-S-4 Evaluating Students' Emotional Responses Using Bullet Screen Sentiment Analysis: Evidence from Electrodermal Activity
Zhao Xu, Qingchuan Li and Yao Song.

SYM 27-S-5 Comparative Analysis of Hand-interaction Modes for Older Adults in Virtual Reality: A Pilot Study on Freehand and Controller-Based Interactions
Ruitong Che, Jiaan Li and Hailiang Wang.

CES-COMM&SM I CES Communication and Social Media

August 28 (Wed) | 16:45-18:15 | 3F 303B [Chair] Peihan Wen

CES-COMM&SM-S-1 A new hierarchical community framework to analyze users' mutual effect for social networking sites interaction
Junlin Wu, Yufan Wu and Peihan Wen.

CES-COMM&SM-S-2 The Calmer, The More Engaging? Exploring the Effects of Instructors' Expression Features in Health Short Videos' User Engagement
Mengli Yu, Yixuanzi Cao, Yichen Guo, Jiahui Wang and Yuxing Dong.

CES-COMM&SM-O-3 Cultural factors influencing the acceptance of medication vending machines in university settings: A comparative study between Koreans and Emiratis
Shama Al Jasmi and Lin Wang.

CES-COMM&SM-S-4 How to Improve Purchase Intention in Live-streaming e-Commerce: the Moderating Role of Trust and Interest
Yige Fan, Jiao Xue, Yixun Liu and Leyan Xing.

CES-Health I CES Disorders, Healthcare & Physiological Data

August 28 (Wed) | 16:45-18:15 | 4F 402A [Chair] Lihua He

CES-Health-S-1 Prolonged Standing Fatigue Recognition based on Plantar Pressure Measurement Technology and Support Vector Machine
Haizhe Jin, Zijian Cao, Jianing Li, Jiahao Zhang and Yongyan Fu.

CES-Health-S-2 Mechanism of prolonged static posture exposure induced musculoskeletal disorders in rabbit model: A viewpoint of inflammatory pathways
Xu Jin, Yidan Dong, Wenchu Huang, Longao Yang, Zhiliang Zhu, Yun Wang and Lihua He.

CES-Health-S-3 Factors contributing to muscle fatigue of low back region in ICU nurses: A qualitative study
Su'E Yuan, Lihui Zhang, Yangyang Liu, Jing Li, Xuxin Wang and Honghong Wang.

CES-Health-S-4 Lower-back muscle fatigue in intensive care unit nurses while performing hand-assisted sputum excretion: Real-world evidence
Su'E Yuan, Lingli Hu, Lihui Zhang, Yangyang Liu, Jing Li, Xuxin Wang and Honghong Wang.

CES-Health-S-5 RISK ASSESSMENT OF MEDICAL ERRORS BASED ON DATA-DRIVEN FAILURE MODE AND EFFECT ANALYSIS
Yunsheng Guan, Haizhe Jin and Xueshuang Wang.

CES-Health-S-6 Vibration discomfort induced by multi-axis whole-body vibration
Chi Liu and Yi Qiu.

CES-Health-S-7 Exposure-response relationship between prolonged static load and low back musculoskeletal disorders in college students
Xu Jin, Yidan Dong, Wenchu Huang, Longao Yang, Zhiliang Zhu, Yun Wang and Lihua He.

Special Sessions

DAY 4
August 29
(Thu)

- SYMPOSIUM 28, 29, 30, 31
- Panel Discussion 17

SYM 29 I SYM-Design For All

August 29 (Thu) | 10:15-11:45 | 3F 302

[Special Session] Human Factors, Inclusion and design for all: approach and implementation

[Chair] Isabella Tiziana Steffan

SYM 29-S-1 Safety and Accessibility: Uncovering Slip-Resistance Requirements Across Global Accessibility Guidelines
Sophia Li, Elgin Lin and Aria Panchal.

SYM 29-S-2 Integrating human factors/ergonomics in designing for all: The case of inclusive service design
Carlos Aceves-González.

SYM 29-S-3 A shared Process to improve Accessibility in Europe
Ilaria Oberti, Isabella Tiziana Steffan and Marco Pizzio.

SYM 29-S-4 Design For Improving Visual Accessibility: Appropriate Contrast For Older People And People With Low Vision
Nana Itoh and Ken Sagawa.

SYM 29-O-5 Healthy and Inclusive Neighbourhoods: the design for inclusion perspectives in the urban health approach
Alessandra Rinaldi, Daniele Busciantella-Ricci and Sara Viviani.

SYM 29-O-6 Independent living for persons with disabilities
Cristiana Perego, Angela Silvia Pavesi and Ilaria Oberti.

SYM 30 I SYM-Gender And Work

August 29 (Thu) | 10:15-11:45 | 3F 303A

[Special Session] Gender and Atypical Work Schedules

[Chair] Karen Messing

SYM 30-O-1 Split shifts, fragmented lives: how to improve the lives of women who work in the cleaning sector
Sophie Prunier-Poulmaire, François-Xavier Devetter and Louis Galey.

SYM 30-S-2 Effects of difficult work schedules on physical exposures in low-paid jobs
Karen Messing, Jean-Paul Dautel and Mélanie Lefrançois.

SYM 30-S-3 -
-

SYM 30-S-4 Atypical schedule management in two precarious female-dominated professions: When social inequalities arise from working conditions and from the research process itself
Mélanie Lefrançois and Karen Messing.

SYM 30-S-5 Research and intervention on atypical working hours through a gender lens: an agenda for future research
Mélanie Lefrancois, Béatrice Barthe, Karen Messing, Sophie Prunier-Poulmaire, Marie-Eve Major, Ghislaine Tirilly and Marlène Cheyrouze.

SYM 31 I SYM-Advanced Human Interaction

August 29 (Thu) | 13:15-14:45 | 3F 303A

[Special Session] Human factors innovation in advanced human interaction studies

[Chair] Joongseek Lee

SYM 31-S-1 Sense of Liberation: Exploring Voice Conversational Agents' Response Styles for Long Diary Entries
Jisu Ryou, Kihun Lee, Sunkyeung Yoo, Ji Eun Song and Joong Seek Lee.

SYM 31-S-2 Enhancing Exhibition Experience by Visualizing Visitor Emotion Using Digital Media Art and Artificial Intelligence
Yoon Kyung Lee, Gee Won Shin, Jaeyoun You, Bongwon Suh, Myung Hwan Yun and Sowon Hahn.

SYM 31-S-3 Exploring digital phenotypes for life satisfaction in middle-aged women
Inju Lee, Gyuyi Kang, Seoyeon Bae, Hoyoung Maeng and Sowon Han.

SYM 31-O-4 Facial plastic surgery service UX design proposal for women using 3D body scanning
Karam Lim and Juhyun Eune.

SYM 31-S-5 Developing and Assessing an LLM Chatbot for Diabetes Management: Insights from Diabetic Patients and Family Medicine Specialists
So Yun Jeon, Seolhee Lee, Esther Hehsun Kim, Jinsu Eun, Kwangwon Lee, Hajin Lim and Joonhwan Lee.

SYM 28 I SYM-Inclusive Living

August 29 (Thu) | 15:00-16:30 | 3F 303A

[Special Session] Ergonomics for inclusive living communities

[Chair] Erminia Attaianese

SYM 28-O-1 KETs-Oriented Service-Based Solutions for Inclusive Living Communities
Alessia Brischetto and Ester Iacono.

SYM 28-O-2 INCLUSIVE DWELLING FOR INCLUSIVE LIVING COMMUNITIES IN THE CURRENT ECO-SOCIO-TECHNICAL CHANGING SCENARIO
Erminia Attaianese.

SYM 28-O-3 Advancing the Concept of Inclusive Living Communities: Between Research Trends and Design Scenarios
Emilio Rossi, Erminia Attaianese, Alessia Brischetto and Claudia Porfirione.

SYM 28-O-4 The System Design for Social Inclusion Framework Applied to Inclusive Living Communities
Emilio Rossi.

SYM 28-O-5 Ageing in Place and Ambient Assisted Living for cultural participation of inclusive living communities
Isabel Leggiero and Claudia Porfirione.

Panel Discussion 17

August 29 (Thu) | 15:00-16:30 | 4F 401B

Ergonomics Standards Development Lifecycle and Specific Updates on Current Work: Perspectives from ISO and Affiliated Organizations

[Chair] Rammohan V Maikala

Discussing ISO Technical Committee 159's work on ergonomics, specifically TC159 Subcommittee 3 on Anthropometry and Biomechanics, including the development and updates of standards like ISO 11228 on manual handling.

Robert Fox

Highlighting the ASTM International Committee on Exoskeletons and Exosuits (F48), its subcommittees, released and draft standards, and the role of the ASTM Exo Technology Center of Excellence in bridging research and standards.

Chris Reid

Presenting the ACGIH Physical Agents Committee's development of Threshold Limit Values (TLVs) for physical agents like hand-arm vibration, whole-body vibration, and repetitive forceful exposures, widely used by North American corporations.

David Rempel

Reviewing the auto industry's rapid changes, such as large touch screens, vehicle electrification, and automation, and the need for updated SAE methods (J2365, J2944) to predict and measure performance with these systems.

Paul Green

Explaining the role of international standardization in HFE, led by industry and academia, with the IEA collaborating with ISOTC159 and other committees to enhance production efficiency and user convenience, through the Advisory Group on Standardization (AGS).

Shin'ichi Fukuzumi

INCOSE HSI2024

DAY 1
August 27
(Tue)

INCOSE 1 Opening Remarks

August 27 (Tue) | 08:30-09:15 | 4F 401A [Chair] Dimitri Masson

Opening Address

So Young Kim, Michelle Robertson

INCOSE Working Group today & HSI2024 Program

Grace Kennedy

INCOSE 2 Introduction to HSI2024 Posters

August 27 (Tue) | 09:15-09:45 | 4F 401A [Chair] Kahina Amokrane-Ferka

INCOSE 3 Artificial Intelligence: Interface and Human-Centered Design

August 27 (Tue) | 10:15-11:45 | 4F 401A [Chair] Wen-Chin Li [Co-Chair] Dimitri Masson

Developing Prompts to Facilitate Generative Pre-Trained Transformer Classifying Decision-Errors in Flight Operations.

Wen-Chin Li, Declan Saunders and Hamed Amanzadeh

Combining user centered design and system engineering to the design of a generic AI-based assistant.

Kahina Amokrane-Ferka, Virgil Rousseaux, Matthieu Dussartre, Moustafa Zouinar and Nicolas Renoir

A Pilot Study for Analyzing Systems Engineer-Conversational GenAI Interaction: A Case Study for Re-quirements Development & Validation

Emilie Perreau, Romain Pinquie and Cédric Masclet

INCOSE 4 Lunch & Posters

August 27 (Tue) | 11:45-13:15 | 4F Foyer [Chair] Kahina Amokrane-Ferka

A function-oriented approach for vehicle development from an HTO perspective.

Ekin Uhri and Ingrid Isenhardt

A Shared Mental Model for the Natural Human-Computer Interaction.

Liang Zhang

Human-AI Teaming for Cockpit Assistance.

Ricardo Jn dos Reis, Anaisa de Paula Guedes Villani, Turkan Hentati, Theodore Letouze, Jaime Diaz-Pineda, Charles Alban Dormoy and Jean-Marc Andre

INCOSE 5A Risk Assessment: Approaches, Methods and Development

August 27 (Tue) | 13:15-14:45 | 4F 401A [Chair] Elina Parviainen

Research on Multi-Temporal Safety Assessment of Approach Control System Based on Multi-Level Extensibility Evaluation Method.

Tingting Lu, Yaqing He and Ning Li

Usability Challenges of Failure Mode and Effects Analysis (FMEA) within the V-Model.

Dan Perreault, Erika Gallegos, Vincent Paglioni and Thomas Bradley

Risk Analysis and Mitigation of Human Interface with AI Systems to Enable Responsible AI Development.

Jennifer Giang and Steven Simske

INCOSE 5B Analyses and Approaches

August 27 (Tue) | 13:15-14:45 | 4F 401B [Chair] Kine Reegård

A Context Acquisition Methodology for the Design of Complex Sociotechnical Systems.

Alexandre Disdier, Dimitri Masson, Marija Jankovic and Guy André Boy

Function analysis for Human-Machine Teaming for semi-automated trains.

Yang Sun, Guy André Boy, Marc Sango and Anne Barros

Addressing work design in future operations of advanced nuclear reactors.

Kine Reegård and Asgeir Drøivoldsmo

HSI for Enhancing Manufacturing Resilience: A Simulation-Based Approach.

Tero Sotamaa, Ari Teppo, Arto Reiman and Elina Parviainen

INCOSE 7A Aviation-1: HSI and Pilot's perspectives and roles

August 27 (Tue) | 16:45-18:15 | 4F 401A [Chair] Lei Wang

Study on Structure Model of Stressors for Pilot Cadets in Flight Training Based on DEMATEL-ISM.

Furong Jiang and Zhaoning Zhang

How Pilots' Professional Ability Influences Their Workload in Simulated DPO and SPO Task.

Ruiyuan Hong, Yu Tian, Mingqian Gao, Shan Gao and Lei Wang

From Flying to Monitoring in the Future Flight Deck: The Differences in Pilot's Perceived Mental Workload.

Shan Gao, Yuanyuan Xian, Yu Bai and Lei Wang

INCOSE 7B Verification: Strategies and Frameworks

August 27 (Tue) | 16:45-18:15 | 4F 401B [Chair] Vivek Kant

Cognitive Load Management for Planning and Executing Verification Strategies.

Sukhwan Jung and Alejandro Salado

Verification Complexity: Definitions, Measurements, and Indicators.

Sukhwan Jung and Alejandro Salado

Exploring A Verification Complexity Framework

Sukhwan Jung and Alejandro Salado

Better Life
Ergonomics
for Future
Humans

INCOSE HSI2024

DAY 2
August 28
(Wed)

INCOSE 9A Design: Interfaces, User-centered design, and challenges

August 28 (Wed) | 10:15-11:45 | 4F 401A [Chair] Paul Lambertson

Supporting Means-Ends Reasoning In Cybersecurity-critical Case Management Using Integrated Ecological Interface Design Process.

Abhinaya Paranikumar, Aparna Singh, Rohit Negi and Vivek Kant

Systems Analysis Using the Vee Model and Concept of Operations in Human Systems Integration.

Paul Lambertson and Carrie Lin

User-Centered Design in Manufacturing: An Evaluation of Predictive and Reliability Displays.

Ivan Garcia and Emilia Villani

Enabling Seamless Operation: Design Challenges.

Avi Harel

INCOSE 9B HSI Primer Writing Workshop

August 28 (Wed) | 10:15-11:45 | 4F 401B [Organizer] Grace Kennedy

INCOSE 10 Lunch & Posters

August 28 (Wed) | 11:45-13:15 | 4F Foyer

INCOSE 11A MBSE: Case Studies: HSI influences and Analysis

August 28 (Wed) | 13:15-14:45 | 4F 401A [Chair] Romain Pinquié [Co-Chair] Dimitri Masson

The Influence of Human-Systems Integration on "Fuzzy Front End" of Innovation: A MedTech Case Study.

Yaroslav Menshenin and Romain Pinquié

Accident Case Study Analysis of Developmental Automated Driving System Collison (Part I).

Sanjeev Appicharla

Model-based Systems Engineering (MBSE) Enterprise Architecture Framework (EAF) with Human System Integration (HSI) – A Smart-City (SC) Case Study.

Sarah Rudder

INCOSE 11B Aviation-2: Analysis and Evaluation

August 28 (Wed) | 13:15-14:45 | 4F 401B [Chair] Wei Tan [Co-Chair] Guy André Boy

Human Reliability Analysis of Single-Pilot Operations Based on Improved CREAM Method.

Wei Tan, Jiaqi Li and Zongxu Cheng

Multi-temporal Operational Efficiency Evaluation of Approach Control System Based on VIKOR.

Zhaoning Zhang, Yuying Fan and Jimin Liu

Pilot's roles in the Urban Air Mobility: individual capabilities for safety and security enterprise concerns.

Raquel Hoffmann, Hidekazu Nishimura and Rodrigo Calhau

INCOSE 12 Sociotechnical Systems: Organizational assessment & Change

August 28 (Wed) | 15:00-16:30 | 4F 401A [Chair] Alexandre Disdier

A time-based approach for understanding human performance risks associated with technology change: A integrative framework.

Alexandra Boeing, Katrina Hosszu, Mark Griffin and Karina Jorritsma

A Planning and Readiness Framework for Organisational Systems Change within Human Systems Integration.

Grace Kennedy

Soft Skills for Hard Missions: Ethnographic Insights of Mars 2020 Space Operation Team Dynamics.

Thomas Chan, So Young Kim, Basak Ramaswamy, Jeremy Argueta, Ana Patino and Alexandria Christoforatos

INCOSE 13A Human-Centered AI and Blockchain Integration: Pioneering Automation for Future Design

August 28 (Wed) | 16:45-18:15 | 4F 401A

Elina Parviainen

Andrew Thatcher

Gretchen Macht

Emauel Robinson

Mica Endsley

Jan Dul

Better Life
Ergonomics
for Future
Humans

2024

INCOSE HSI2024

DAY 3
August 29
(Thu)

INCOSE 15A Case studies: Applying HSI system engineering, cognitive models and Sociotechnical Ecosystem

August 29 (Thu) | 10:15-11:45 | 4F 401A [Chair] Ricardo Reis

Classifying conceptual models applied to develop an autonomous snow-plowing system.

Tommy Langen, Gerrit Muller and Kristin Falk

Fintech and user experience: Case study of Consumer Satisfaction and Consumer Protection in India's Fintech Socio-Technical-Ecosystem.

Vineet Kant

Challenges in HSI planning.

Yakir Yaniv

INCOSE 15B User interface and automation design

August 29 (Thu) | 10:15-11:45 | 4F 401B [Chair] Gopal Jani

Human-Machine Natural Language Processing Documentation Translation Technique.

Bryant Beeler and Larissa Maksi

Impacts of Annotator Interface Design on NLP Data Annotation Quality.

Eric Hsu, Thomas Mazzuchi and Shahram Sarkani

Human-Centered AI and Blockchain Integration: Pioneering Automation for Future Design.

Gopal Jani and Hitendra Shidhapura

INCOSE 16 Lunch & Posters

August 29 (Thu) | 11:45-13:15 | 4F 401A

INCOSE 17A HSI Primer Volume 2 Writing Workshop

August 29 (Thu) | 13:15-14:45 | 4F 401A [Organizer] Dimitri Masson

INCOSE 17B The development of an HSI massive open online course

August 29 (Thu) | 13:15-14:45 | 4F 401B [Organizer] Yakir Yaniv, Yuval Bitan, Nirit Gavish

INCOSE 18 Closing remarks

August 29 (Thu) | 15:00-16:30 | 4F 401A [Organizer] Guy André Boy

What could be the future of HSI? Designing a roadmap,
forming a joint IEA-INCOSE HSI Working Group, expanding our current development

Grace Kennedy, Dimitri Masson, So Young Kim, Michelle Robertson

Better Life
Ergonomics
for Future
Humans

Posters

Session 1
August 26
(Mon)

August 26 (Mon) | 16:45-18:15 | 6F Foyer

Agr-P-1 Evaluation of the Burden of Working Posture According to the Height of the Transportation and Loading Tier in the Apple Sorting Task
Seoung-Yeon Kim, Insoo Kim, Wongeon Jung, Choung Keun Lee, Min-Tae Seo

Agr-P-2 Ergonomic Intervention in the Macadamia Harvesting Process: How to Reduce Physical Load and Musculoskeletal Disorders?
Sandra Milena Muñoz Nuñez, Juan Carlos Velasquez

ATWAD-P-3 A Study on Utilization of Operator Observation Result Based on Operator Fundamentals at Nuclear Power Plants
Jeongjin Park

ATWAD-P-4 A Shared Mental Model for the Natural Human-Computer Interaction
Liang Zhang, Xiaoyu Wang

ATWAD-P-5 COMPARATIVE ANALYSIS OF SAFETY CULTURE INTERVENTIONS ON FOUR OFFSHORE PLATFORMS
Mariana Martins, Mateus Abraçado, Lucas Farah, Adriana Araújo, Raoni Simões

CES-GEN-P-6 Fatigue Driving Detection Algorithm Based on Multi-Feature Fusion
Chengming Chen, Meng Zhou, Xinyue Liu, Pengfei Zhang, Renjie Wei

CES-POS-P-7 The Impact of Stress on Pupillary Response and Performance in Simulated Flight Task
Xianliang Ge, Hao Ni, Ke Zhang, Hanlin Xu, Xiaolei Song

CES-POS-P-8 Research on the influence of speech on Virtual Reality (VR) teaching experience
Qifang Yu, Qianxi Xiao, Zhe Chen

CES-POS-P-9 Research on the impact of immersion, interactivity and result incentive on VR environmental education
Yihang Lv, Zhe Chen

CES-POS-P-10 Vision-Based Rapid Risk Assessment Method for Multi-Person Postures to Prevent Musculoskeletal Diseases
Kai Huang, Zhe Chen, Yanqin Dong

CES-POS-P-11 Comprehensive Study on User Accessibility in Autonomous Driving
Faizan Iftikhar, Zhe Chen, Yanqin Dong

Design-P-12 Ergonomic evaluation of load-carrying utility wear by used clothes
Yuri Kokubun, Mizuki Nakajima, Takeshi Sato, Ryota Murano, Ai Takizawa

Mus-P-13 Influence of Compression Stocking Applications on Personal Support Workers' Biomechanical Exposures
Kate Posluszny, Daphne Ho, Dianne Tolgyesi, Danielle Porter and Steven Posluszny

Design-P-14 Inclusive Telework: Assessing Gender and Racial Disparities In Work-From-Home Arrangements
Ashley Sylvara, Jacob Gallagher, Christine Seitz, Jin Lee, Jia-Hua Lin, Stephen Bao, Michelle Robertson

Design-P-15 Enhancing Communication for the Hearing Impaired: Usability Evaluation of Speech Recognition Apps in a Portable Repeater Environment
Sojung Gwak, Heetae Hwang, Kyudong Park

Gender-P-16 The Effects of Gender and Personal Protective Equipment on Physiological Responses of Chemical troop soldiers in Taiwan
Yuh-Chuan Shih, Chih-Yu Hsiao, Yi-Ning Chen

Gender-P-17 EFFECTS OF IMPLEMENTING ERGONOMYX TECHNOLOGIES INC. DYNAMIC WORKSTATIONS ON HEART RATE VARIABILITY (HRV) INDICATORS
Jade Samping, Nancy Black, Kevin Milne, Richard Michaud Langis

Health-P-18 Cardiac function and mental health assessment based on heart rate variability during task state
Zhenfeng Ren, Qianxiang Zhou, Zongqi Liu

Health-P-19 Safe Patient Handling and Mobility (SPHM) A Process to Protect Health Care Workers and Recipients: Highlights from the Joint AIHA/ASPHP/ANA 2024 White Paper.
Lynda Enos, James McGlothlin, Colin Brigham

Health-P-20 Effect of interference in using nursing information system: An ERP study
Huiling Hu, Xue Wu

Health-P-21 The Impact of Postures and Wearable Sleep Intervention Methods on Napping
Tingting Zhu, Xiaojun Lai, Pei-Luen Patrick Rau

Health-P-22 Identification of physically demanding caregiving activities, musculoskeletal disorders among carers and carers' perspective of introducing back-supported exoskeleton (BSEs) in care homes: a questionnaire survey.
Achiraya Purin Yangsap, Mike Fray

Health-P-23 The Effectiveness of Integrative Ergonomic Interventions in Improving Workplace Musculoskeletal Discomfort: A Case Study of Pharmacists in a Regional Hospital
Li-Ping Tseng, Chih-Shao Wang, Wen-Jun Wong, Yi-Ting Wang, Chieh-An Hsieh, Yu-Yin Lin

Health-P-24 HEADLIGHT ABSENTEEISM: A MANAGEMENT TOOL IN OCCUPATIONAL HEALTH AND ERGONOMICS
Carla Barroso

Health-P-25 Investigation the Relationship Between Depression, Stress and Social Support with Quality of Life in Construction Worker
Gonca Bumin, İsmail Ozdemir, Ezginur Gündogmus

Health-P-26 Investigating the Relationship Between Pain and Anxiety in Quality Control Workers
Gonca Bumin, Ezginur Gündoğmuş, Betül Korkmaz

Health-P-27 Embedded Clinical HF Practitioners: A New Professional Model
Ken Catchpole

Health-P-28 An attempt to estimate nurses' workloads depending on changing circumstances in real time using data from simulation experiment
Yuki Mekata, Aika Kishigami, Jun Hamaguchi, Miwa Nakanishi

Health-P-29 A STUDY ON ACCURACY VALIDATION OF CHEST EXPANSION TEST USING A 3D DEPTH CAMERA
Jong Hyun Kim, Kwang Tae Jung, Chang Gi Lee

Health-P-30 Analysis of lower extremity muscle activity according to exercise mode during ankle exercise using a robotic device (the Rebless™)
Byung-Woo Ko, Jihyeon Jo, Myungjoon Lim

Health-P-31 Evaluate the influence of various forearm positions on the grip strength of young adults
Abdulelah Ali

Health-P-32 Design of a Non-powered Medicine Injector Utilizing Air Pressure and Elasticity to inject Fluids in Disaster Situations
Yeonghwan Shin, Daeyeon Kim, Yujin Chae, Yuan Bai, Jiho Kim, Dokshin Lim

Health-P-33 Development of an Upper Limb Rehabilitation Exercise Application: Focusing on Personalizing Patient Range of Motion
Hojoon Kim, Jiyeon Kang, Sangmin Lee, Kyudong Park

Health-P-34 Investigation on Workload and Muscle Injuries of Care Service Personnel under Different Shift Systems
Ching-Chung Chen, Eiwen Lo, Liwen Liu, Pei-Chun Tu, Chih-Yong Chen, Zhi-Xuan Chen

Health-P-35 Investigation of the Use of Work Assistive Devices by Caregivers in Long-term Care Facilities
Zhi-Xuan Chen, Ching-Chung Chen, Eiwen Lo, Liwen Liu, Pei-Chun Tu, Chih-Yong Chen

Health-P-36 Effects on Independent Walking by Body Movements during the Use of Rehabilitation App
Yuki Mizuno, Shino Izutsu, Mayumi Nishikubo, Yoshihiro Hoshikawa

Kansei-P-37 Emotion Recognition Through Smartphone-based Gait Analysis with Dimensional Theory
Lu Wang, Xiaojun Lai, Pei-Luen Patrick Rau

Kansei-P-38 Proposal for Fatigue Status Presentation to Enhance Communication in Offices
Rina Morohashi, Hayato Uchida, Takeo Kato, Hidekazu Nishimura, Masako Toriya

Kansei-P-39 Development of a kinematic feature presentation system to understand the characteristics of attractive walking styles.
Kanako Kamishita, Sakiko Saito, Megumi Kondo, Yoshiyuki Kobayashi

Kansei-P-40 Defining the Luxuriousness of the Steering Wheel Vibration Warnings
Kimin Kwon, Sung H. Han, Beomyoung Jeong, Seungmoon Choi

Kansei-P-41 Emotion and Gaze Movement Analysis in Preference Evaluation of Steering Wheel Design
Yejin Lee, Kwang Tae Jung

Kansei-P-42 Helpful Prediction of User-Generated Reviews using Machine learning Algorithm with Term Frequency Inverse Document Frequency, and Sentiment Analysis for Alexa Reviews
Kiruthika Appavu, Neelakandan Subramani, Seul Chan Lee

Manu-P-43 DETERMINATION OF METABOLIC EXPENDITURE THROUGH HEART RATE IN A STUDENT POPULATION
Karla Patricia Lucero Duarte, Enrique Javier De La Vega Bustillos, Alejandra Robles

Mus-P-44 Development of a postural risk assessment tool to evaluate surgeons' neck postural exposure: a study of 121 surgical procedures.
Hamid Norasi, M. Susan Hallbeck

Mus-P-45 A new handedness exchange training that improved brushing skill
Mayumi Nishikubo

Mus-P-46 Influence of an upper-body exoskeleton on kinematics, heart rate, and muscle activity while walking on an inclined surface
Gabriela Garcia, Rafaella Yañez, Milena Espoz, Camilo Albuja, Paul Arauz, Bernard Martin

Mus-P-47 Enhancing Back Muscle Size and Strength: A 15-Week Resistance Training Intervention
M. Fehmi Capanoglu, Menekse Salar Barim, Richard F. Sesek, Mark C. Schall, Sean Gallagher, Daniel F. Silva

Mus-P-48 Incorporating Personal Characteristics into the Lifting Fatigue Failure Tool (LiFFT)
M. Fehmi Capanoglu, Robert M. Sesek, Menekse Salar Barim, Richard F. Sesek, Mark C. Schall, Sean Gallagher

Mus-P-49 Test-Retest Reliability of MRI-based Low Back Muscle CSA Measurements
M. Fehmi Capanoglu, Menekse Salar Barim, Richard F. Sesek, Mark C. Schall, Sean Gallagher

Mus-P-50 SIMPLIFIED CHECKLIST FOR ERGONOMIC RISKS CLASSIFICATION: A PILOT STUDY
Jansen Estrazulas, Mário Sobral, Kaellen Scantbelruy, Tiago Almudi, Bruno Thurner, Raíssa Costa

Mus-P-51 Investigating the Optimal Camera Position and Monocular 3D Pose Model for NIOSH Lifting Equation
Aditya Subramani Murugan, Eunsik Kim, Boubakeur Boufama

Mus-P-52 A Computer Vision approach for classifying the risk of a lifting task by analyzing a worker's facial expressions and physiological signals.
Afrooz Shakeri, Eunsik Kim

Mus-P-53 Development of Ergonomic Workstation to Reduce Musculoskeletal Disorders (MSDs) of Filipino Tattoo Artists: A Study Exploring Improved Posture and Health
Janina Elyse Reyes

Mus-P-54 Development of automatic identification of risk information for the ACGIH TLV for Lifting using IMU Sensors
Menekse Salar Barim, Ming-Lun Lu, Marie A Hayden, Dwight Werren

Mus-P-55 The Investigation of Workload and Use of Different Assistive Devices for Nursing Assistants
Victor Eiwen Lo, Ching-Chung Chen, Liwen Liu, Pei-Chun Tu, Chih-Yong Chen

Mus-P-56 EXPLORING THE METABOLIC DETERMINANTS OF LIFTING MOVEMENT STRATEGY
William Zhao, Devon Frayne, Steven Fischer

Mus-P-57 LOWER BACK LOADING ESTIMATION BASED ON DYNAMIC IMAGES OF WORKERS PERFORMING MANUAL LIFTING
Pin-Ling Liu, Chien-Chi Chang, Pei-Chun Tu, Li-Wen Liu, Chih-Yong Chen

Mus-P-58 Effects of Personal Gear on Gait and Respiratory Patterns of Soldiers During a Simulated Load Carriage March
Che-An Liu, Yun-Ju Lee, Hung-Xin Li, Yuh-Chuan Shih

Mus-P-59 Effects of Load-bearing Exoskeleton Systems on Joint Loading During Walking, Deep Squatting, High Kneeling, and Stair Ascending and Descending Movements
Shu-Zon Lou, Hsieh-Ching Chen, Yuh-Chuan Shih, Jia-Yuan You

Mus-P-60 Ergonomic Assessment of work activities for an industrial-oriented wrist exoskeleton
Roberto Francesco Pitzalis, Nicholas Cartocci, Christian Di Natali, Darwin Caldwell, Giovanni Berselli, Jesús Ortiz

Mus-P-61 A Study on the Effect of Grip Strength on Physical Workload in Manual Material Handling Tasks
Nakyeong Kim, Yuchang Kim

Mus-P-62 Assessment Methods for Prolonged Sitting Postures in Sedentary Office Environments: A PRISMA Systematic Review
Adele Behzad, Eunsik Kim

Mus-P-63 EVALUATING PASSIVE UPPER-LIMB EXOSKELETONS FOR OVERHEAD TASKS AT DIFFERENT CYCLE TIMES
Michael Watterworth, Gillian Slade, Ryan Porto, Joel Cort, Nicholas La Delfa

Resil-P-64 Resilient Design: A Systems Approach to Evaluating Tasks and Hazards to Prevent WRMSD Injury Risk in Human-Machine Production Systems
Peregrin Spielholz, Frank Ryou, Christopher Reid, Richard Gardner

Robot-P-65 Video-based framing can alter the negative attitude toward service robots
Olivia Herzog, Annika Boos, Tim Merkel, Klaus Bengler

Robot-P-66 The testing and experimental analysis of human lower limb-assistive exoskeleton based on energy harvest
Xin Zhou, Xiaoli Liu, Mengcheng Wang, Yang Liu

Safety-P-67 A scoping review: How do Personality Traits Influence Practitioners' Safety attitudes/behaviours?
Yeojin Kil, Margaret Graham, Anna Chatzi

Safety-P-68 The use of psychoactive substances in civil aviation: an integrative review.
Mauro Matias, Marcia Fajer, Frida Fischer

Safety-P-69 ANALYSIS OF THE RELATIONSHIP AMONG WORK ABILITY INDEX, JOB STRESS, AND BURNOUT
Kyung-Sun Lee, Jiyeon Ha, Jinwon Lee, Jaejin Hwang

Safety-P-70 Developing an Employee Health Monitoring and Tracking System from a Sustainable Human Factors Perspective
Wei-Ru Chen, Chin-Mei Chou, An-Jo Sun, Chi-Lun Hung

Safety-P-71 Lean Ergonomics in Empirical Research - Finding synergies between well-being and production performance
Stefan Brunner, Mathias Siebenbürger, Klaus Bengler

Safety-P-72 A Simulation Study on Thermal Comfort of Mattresses
Lihao Xue, Jiachen Nie, Li Ding, Qing Zhang

Safety-P-73 Effects of technological innovation initiatives on company performance and occupational safety and health
Gaia Vitrano, Guido J.L. Micheli, Huan Xu, Xiranai Dai, Stefano Signorini

Safety-P-74 Suggestions for female teleworkers to work healthily based on a literature review
Yoko Ichikawa, Shin Saito, Motoko Ohira, Kiyoko Yokoyama

Safety-P-75 EVALUATION OF WORK LOAD IN HOSPITAL KITCHEN WORKERS
Yoko Aiba, Moriyasu Takada, Shin Saito, Tetsuo Misawa

Safety-P-76 Preliminary Experiment on the Effects of Machine-Assisted Therapy on Upper Limb Kinematics in Stroke Patients
Yu-Chi Chen, Shu-Zon Lou, Deng-Kai Chang

Safety-P-77 A Comparative Study of Injury Severity Metrics Using Vehicle Crash Data
Suhwan Jung, Gi Sung Yoo, Sujeong Park, Yong Gu Ji, Hyochang Kim

Safety-P-78 Characteristics of eye movements using multi display type VDT workstation
Shin Saito, Yoko Ichikawa, Tomoyuki Hasegawa, Motoko Oohira, Norikazu Ohnishi

Safety-P-79 The Impact of Environmental Temperature on the Cognition of Delivery Personnel
Yang Liu, Yanmin Xue, Xiaoling Li, Mengcheng Wang, Xin Zhou

Safety-P-80 Environmental Ergonomics – Deep Learning of Noise Maps @ Data Centres
Seng Wee Yap

Safety-P-81 The study of ergonomics risk level and discomfort of students while sitting in class: Case Study at Occupational Health and Safety Laboratory
Pornpun Watcharavitoon, Nidanuch Jaikham, Pornpimon Prachaphani, Saengrawee Noipli, Jiratikarn Rammasang, Darunee Sonwongkaew

Safety-P-82 Refining the Enterprise Health Promotion Index to Align with South Korea's Policy and Demographic Shifts
Hun Kim, Jaehoo Bae, Hee Young Kim, Honghua Lyu, Dain Kim, Myung Hwan Yun

Safety-P-83 Effectiveness of a Gait Support Wearable Robot for the Elderly
Jeong-Bae Ko, Kyeong-Hee Choi, Young-Hwee Lee, Jae-Soo Hong

Space-P-84 DECISION-MAKING OF AIRLINE PILOTS IN NON-PRESCRIBED SITUATIONS
Marcia Fajer, Frida Marina Fischer

Space-P-85 HUMAN-CENTERED DESIGN OF PLANNING AND SCHEDULING TOOLS IN AEROSPACE MANUFACTURING
Sofia Morandini, Federico Fraboni, Mark Hall, Santiago Quintana-Amate, Luca Pietrantoni

Space-P-86 Construction of a Multi-Source Analysis and Decision Fusion Model for Civil Aviation Pilot Operational Fatigue Based on Bayesian Networks
Runhao Li, Xiaolong Wang, Jiaying Zou, Pengyu Luo, Haixin Xu, Yanzeng Zhao, Lijing Wang

Space-P-87 Applying Human Factors Analysis in Designing Accessible Lavatories on Single-Aisle Aircraft
Kylen Lawless, Carrie Lin, Erin Maddix

Sus-P-88 Yes – Ergonomics Should be Part of Your Organization's Sustainability Goals
Peregrin Spielholz

DHM-P-89 Construction of Prediction Equations for Lower Leg Swelling in the Driving Posture
Fuka Kajitani, Takeo Kato, Akinari Hirao

VR-P-90 A study on the development of virtual reality sugar management education content that provides customized education services for each life cycle of pediatric diabetes patients
Seung-Rok Kang, Hyo-Jin Ahn, Da-Woon Jeong, Seong-Yun Choi, Min-Sun Kim, Gi-Wook Kim, Myoung-Hwan Ko

VR-P-91 Research on the development of innovative future medical technology using extended reality technology
Seung-Rok Kang, Sun-Hye Shin, Yun-Ju Jo, Da-Woon Jeong, Min-Ji Seong, Ra-Yeon Kim, Ga-Hye Jeon, Ji-Eon Yun, Hang-Jin Lee, Gi-Wook Kim, Myoung-Hwan Ko

VR-P-92 Derivation of usability evaluation factors for metaverse content through literature review
Jeongyoon Ahn, Nohyeon Kim, Jaehyun Choi and Sunah Kim

Transport-P-93 Determination of Driving Vulnerable Sections and Assessing Safety Information Managements Under Mixed Traffic Conditions
Hojae Kim, Juneyoung Park

Transport-P-94 Exploring the Relationship among Drivers' Emotional Intelligence, Perception of Danger, and Dangerous Driving Behavior
Wei-Ru Chen, Yu-Cen Kuo, Chen-Wei Chang

Product-P-95 COMPARISON OF ACTUAL DIVER THERMAL COMFORT WITH MEASURED PROPERTIES OF NEOPRENE
Vesna Marija Potočić Matković, Ivana Salopek Čubrić

Robot-P-96 The Complexity of Teleoperation Systems: A Call for Ergonomic Participation on Every Level
Theresa Prinz, Klaus Bengler

Macro-P-97 Professionalization as the Path of Standardization in Humanitarian Work
Lefay Galaad, Delgoulet Catherine, Therriault Pierre-Yves

Transport-P-98 EEG and Deep Learning: Assessing Phone Distractions on Train Drivers
Jung Hwan Kim and Tongil Jang

Kansei-P-99 Constructing a hierarchy of affects experienced by workers working with industrial robots in a manufacturing factory – a preliminary study
Taebeum Ryu, Jack Ogutu, Richard Olawoyin

UI/UX-P-100 A pilot study of Nintendo Switch Applied to upper extremity rehabilitation for stroke
Mei-Hsiang Chen, Lan-Ling Huang

Agr-P-101 Ergonomic Intervention in the Macadamia Harvesting Process: How to Reduce Physical Load and Musculoskeletal Disorders?
Sandra Milena Muñoz Nuñez, Juan Carlos Velasquez

Better Life
Ergonomics
for Future
Humans

Posters

Session 2
August 28
(Wed)

August 28 (Wed) | 16:45-18:15 | 6F Foyer

AI-P-120 Motion Step Classification in Industrial Operations using Kinect Sensor Data
Chiuhsiang Lin, Chih-Feng Cheng

AI-P-121 Comparative study on quality manipulation prompts to improve visual quality
Jinwoo Ryu, Sung-Hee Kim

AI-P-122 Is AI Instruction Comparable to Human Instruction? Designing an AI Instructor for Complex Task Training
Bradford Schroeder, Jason Hochreiter, Sean Thayer, Javier Rivera, Wendi Van Buskirk

AI-P-123 Towards Non-Invasive Tongue Movement Detection: Leveraging Wi-Fi Signal
Juhyeon Kim, Hojoon Kim, Hyeon Sim, Gyu-Min Hwang, Jaeseong Son, Jaesung Park, Kyudong Park

AI-P-124 Predicting Intensive Care Unit Length of Stay for Inflammatory Bowel Diseases Patients Using Machine Learning
Ke Xu, Jiayi Nie, Yifan Chen, Ziqi Ban, Di Liu, Rong Yin

Agi-P-125 Healthy and Sustainable working life for all ages – a tool and action proposals for dialogue and discussion on employee work situation and career development.
Kerstin Nilsson

Agi-P-126 The dynamic dual-tasking trail making test for assessing executive function in automobile drivers
Kazumitsu Shinohara, Naoko Masuda, Kazuma Ishimatsu, Takahiko Kimura, Naoko Kawano

Agi-P-127 Biomechanics & Energetics of human movement – the legacy and the future
Sauvik Das Gupta, Yoshiyuki Kobayashi

Agi-P-128 Study on the Willingness to Modify Homes for Smart Aging in Place Based on the Technology Acceptance Model
Li Jiaying, Lusha Zhu, Pan Younghwan

Agi-P-129 EVALUATION OF USER INTERFACE DESIGN ON THE MULTIFUNCTIONAL SMART KITCHEN APPLIANCE FOR THE NEEDS OF OLDER PERSONS
Po-Hsiang Liu, Ching-Wen Lien, Yu-Chun Liao

Ant-P-130 DEVELOPING A CONVENIENCE MEASURING METHOD AND EXPLORE THE AFFECTING VARIABLES ON FINGERNAIL BREADTH
Yu-Ting Lin, Po-Hsiang Liu, Jia-Chi Lin

Ant-P-131 Effects of Different Postures on Torso Shape in Pregnant Women.
Ayumi Tanaka, Naomi Maruta, Satoshi Muraki

Block-P-132 Assessing Blockchain Alternative Competition Level using Fuzzy-ANP
Alyana Nicole Abad, Armeila Khiyana Cunanan, Mary Gale Soan, Kathleen Tejano, Ronaldo Polancos

CTE-P-133 Evaluating the Impact of Augmented Reality and Social Robots on Computational Thinking in Young Students: A Comparative Study
Jaejin Hwang, Yanghee Kim, Sungchul Lee, Joshua Mosher, Mohammad Faizan Sohail Lnu, Nikitha Koradala

CTE-P-134 POST-SIMULATION PSD: IMPACT OF THE ARTICULATION OF OBJECTIVE AND SUBJECTIVE VIEWS, DERIVED FROM EYETRACKING, ON THE ACTIVITY OF TRAINER
Valérie Duvivier

CTE-P-135 Adaptive versus Maladaptive Coping Strategies & Adaptive Training: Preliminary Findings from a Naval Radio Frequency Detection Task
Gabriella Hancock, Brad Schroeder, Jason Hochreiter, Sean Thayer, Javier Rivera, Mira Gruber, Yazmin Diaz, Wendi Van Buskirk

CTE-P-136 Enhancing Student's ergonomics knowledge in industrial design education through expert review
Chun-Ting Wu

CTE-P-137 Developmental Needs of Physical Ergonomics in Vocational Education
Marion Karppi, Yolanda Hyde, Minna Lahti

CTE-P-138 The Impact of Digital Competence on Work Engagement in the Context of Vocational Education: The Mediation of Self-efficacy and Resilience
Meng Zhang, Lilis Surienty

CTE-P-139 Importance-performance analysis of curriculum planning in new media communication.
Tien-Sheng Lin, Zhi-Xuan Chen, Ching-Chung Chen

DHM-P-140 Reinforcement learning and digital human modeling for multi-objective factory layout planning
Veeresh Elango, Andreas Lind, Manu Sathyarajan Joseph, Akanksha Makkar, Lars Hanson, Mikael Forsman, Anna Syberfeldt, Johan Sandblad

DHM-P-141 Machine learning prediction of procrastination with multimodal eye movement and physiological responses
Tianchen Sun, Ji-Eun Kim, Jessica Hwee

DHM-P-142 Visualizing accessibility-related injury risks through children's posture generation considering mechanics and slight environmental modification
Natsuki Miyata, Kazuhiro Kurihara, Yusuke Maeda

DHM-P-143 Literature Review on Methods for Collecting and Analyzing 3D and 4D Scan Data and Application Cases of Ergonomic Product Design
Yejin Lee, Xin Cui, Jongbae Park, Dohoon Kwon, Heecheon You

DHM-P-144 A STUDY ON A MODEL OF COGNITIVE BEHAVIOR DURING SIMPLE ADDITION TASKS USING COGNITIVE ARCHITECTURE
Keisuke Takeuchi, Kimi Ueda, Hirotake Ishii, Hiroshi Shimoda

Macro-P-145 Implicit Leadership in Japanese Collegiate Sports: Implications for Leadership Development Programs
Yasuyuki Hochi, Kentaro Inaba, Naoto Shoji, Motoki Mizuno

Macro-P-146 Career Transition of Independent League Baseball Players From The Perspective of Role Exit Theory
Ken Nakatsuka, Motoki Mizuno

Macro-P-147 Cashless Payment System in Professional Baseball Stadiums From the View of Innovation Diffusion Theory
Ryu Kitabatake, Motoki Mizuno

Macro-P-148 Psychological Safety and Organizational Commitment in a College Volleyball Team
Moe Tanaka, Manabu Nakata, Motoki Mizuno

Macro-P-149 Exploring Leader-Member Exchange Theory and Psychological Safety in High School Baseball team
Sakura Nemoto, Yasuyuki Hochi, Motoki Mizuno

Macro-P-150 ERGONOMIST OCCUPATION - NEW APPROACH IN ROMANIA
Raluca Maria Iordache, Aurel Manolescu, Doru Costin Darabont

Macro-P-151 Authentic leadership, psychological safety and health promotion support in nursing organizations
Kentaro Inaba, Yumi Arai, Yasuyuki Hochi, Takumi Iwaasa, Yasuyuki Yamada, Emiko Togashi, Yuki Mizuno, Motoki Mizuno

Macro-P-152 Leadership of high-trust organization in nursing organization
Yuki Mizuno, Motoki Mizuno, Yasuyuki Hochi, Yasuyuki Yamada, Takumi Iwaasa, Kentaro Inaba, Yumi Arai, Emiko Togashi

Others-P-153 Explore gait information from IMU for walking phase classifications and personal identifications
Yu-Sen Wu, Yun-Ju Lee

Others-P-154 Utilizing Inertial Measurement Units to Analyze Lower Limb Biomechanical Movement Patterns in Boxing
Yi-Jing Wu, Yun-Ju Lee, Chun-Yao Wang, Wen-Shin Chiu, Yen-Chen Tseng

Others-P-155 K-drama Popularity through a Content-Based Recommender System
Karuppanasamy Kalaiselvi, Neelakandan Subramani, Seul Chan Lee

Others-P-156 BIOENERGETICAL ERGONOMIC ASSESSMENT AND METABOLIC DEMAND IN MARKET WORKERS IN MEXICO CITY
Ayotzin Tamara Garcia Molina, Brenda Ivonn Rodriguez Romero, Jazmani Arturo Ramirez Díaz

Others-P-157 Expanding Human Affinity for Advanced Robots by Adapting Techniques from Japanese Performing Arts (Noh and Bunraku)
Shinobu Nakagawa

Others-P-158 Ergonomics-Aware Control Architecture for Humanoid Robots
Carlotta Sartore, Lorenzo Rapetti, Daniele Pucci

Product-P-159 Investigating Challenges and Design Requirements of Medical Examination Clothing: A Comprehensive Survey
Yujin Hong, Ye Eun Kim, Heejae Lee, Hee Eun Choi

Product-P-160 ERGOGRIP: Redefining Experience through Ergonomically Designed Multifunctional Digital Pen
Dhennise Maala, Ivychelle Camara, Maida Dela Cueva, Sheila Mae Carungay

Product-P-161 Consideration of Product Application using PUI Guidelines: focusing on Home Appliances
Jaekyu Park, Youngjae Im

Product-P-162 Ergonomic Evaluation of Refrigerator Handle Design: The Influence of Hinge Position, Grip Orientation, and Handle Height
Daeyong Yang, Eui S. Jung

Product-P-163 THE EVALUATION OF CHILD CAR SEAT CUSHION DESIGN
Te-Hung Chen, Chein Yang, Mao-Jiun J. Wang

Product-P-164 Case Study on Patients with Carpal Tunnel Syndrome Custom Orthosis Design and Fabrication Using 3D Body Scanning and 3D Printing.
Angie Daniela Alomia Poveda

Product-P-165 Enhancing Recycling Behavior through Plastic Take-Out Container Design: The Moderating Role of Attitudes and Past Behaviors
Ezekiel Bernardo, Wira Madria, Jazmin Tangsoc, Angelimarie Miguel

Slips-P-166 Application of harmonic ratio in stair of the house
Takeshi Sato, Mizuki Nakajima, Hiroyuki Morikawa, Ryota Murano, Macky Kato

Slips-P-167 Lower-Limb Joint Adaptation Strategies During Visually Constrained Gap Crossing
Tadashi Uno, Taihei Matsuo, Masanari Asano, Ping Yeap Loh

Transport-P-168 Methods for Evaluating the Comfort of Vehicle Seating Systems - A Literature Review
Weisheng Jiang, Zhongqi Liu, Qianxiang Zhou

Transport-P-169 A Human Factors training to optimize safety during initial interactions with automated driving
Jessy Barré

Transport-P-170 A VR study: How should an automated vehicle communicate with multiple pedestrians?
Yuchen Liu, Niklas Grabbe, Klaus Bengler

Transport-P-171 Driver Model Requirements for Capture of Critical Driving Behaviour and Heterogeneity in Virtual Testing — Findings from a Delphi Study
Tianyu Tang, Klaus Bengler

Transport-P-172 Influence factors and improving strategies of perceived safety—an on-road study in L2 automation
Jingyue Zheng, Jie Deng, Wei Zhang

Transport-P-173 Classifying rapid deceleration events for older drivers
Misako Yamagishi

Transport-P-174 Enhancing Pedestrian Trust and Crossing Behaviors through Gesture-Based External Human-Machine Interfaces in Automated Vehicles
Ming-I Lin

Transport-P-175 Relationship between the Characteristics of Drawn Lines and Reaction Time during Simulated Right Turns at Intersections
Taisei Inoue, Motonori Ishibashi, Norimasa Yoshida

Transport-P-176 What triggers driving anger and how to deal with it? Evidence from a naturalistic driving study
Yi Wang, Wei Zhang

Transport-P-177 VISUAL MESSAGE GUIDELINES FOR EXTERNAL DISPLAY IN AUTOMATED DRIVING BASED ON COGNITIVE ERGONOMICS
Jaehyun Choi, Taekyu Kim, Hongku Yun, Yoonkyeong Kim, Sunhong Park

Transport-P-178 Effect of tactile takeover requests using seat belt tension patterns in autonomous driving situations
Huhn Kim, Eunjung Oh

Transport-P-179 The Sense of Control in Autonomous Driving
Yili Yin, Qi Gao, Lehan Chen, Churu Yu, Haoyu Teng, Mowei Shen, Zaifeng Gao

August 28 (Wed) | 16:45-18:15 | 6F Foyer

Transport-P-180 HUMAN FACTORS PRINCIPLES AND PROCEDURES FOR AUTOMATED VEHICLE SAFETY
Peter Burns

Transport-P-181 The Impact of Road Paving Irregularities on Road Users - Evaluation of the Validity of Road Surface Soundness Diagnosis Criteria in Japan -
Takashi Miura, Naoya Kanda

Transport-P-182 Using MLP to Predict the Trends of Quality Performance Indicators of Aviation Maintenance
Yan-Teng Lian, Shun-Ching Chang, Chin-Jung Chao, Yu-Lin Hsiao

Transport-P-183 Developing a Quality Performance Index Prediction Model for Aircraft Repair and Maintenance Operations Using Long-Short-Term Memory Techniques
Geng-Wu Lo, Yu-Lin Hsiao, Chen Tai

Transport-P-184 Couriers' workload for push and pull tasks due to delivery trolley types
Jun Jie Deng, Hong-In Cheng

Transport-P-185 How to Make Autonomous Driving More Acceptable and Safer: Using an Augmented Highlighting Display
Minwoo Cho, Dongwook Hwang

Transport-P-186 A Study on Drive Readiness and Take-Over Request Alarm Evaluation According to NDRA based on Virtual Driving Environment on Level 3 Autonomous Driving
Jinhae Yae, Hun Lee, Sunhong Park

Transport-P-187 Evaluation of Visual Response of External Display in PBV
Yoonkyeong Kim, Sunhong Park

Transport-P-188 Towards Understanding Trust Calibration in the Context of Conditionally Automated Drivin
Heetae Hwang, Juhyeon Kim, Hojoon Kim, Heewon Min, Kyudong Park

Transport-P-189 PREVALENCE OF FATIGUE, INSOMNIA, SLEEP DISRUPTIONS AND PHYSICAL ACTIVITY IN AVIATION MAINTENANCE STAFF
Chloe Bennett, Jonathan Davy, Swantje Wells, Cleo Bennett

UI/UX-P-190 A pilot study of Nintendo Switch Applied to upper extremity rehabilitation for stroke
Mei-Hsiang Chen, Lan-Ling Huang

UI/UX-P-191 Comparison of Simulated Environment and Real Environment Usability Test of Caring Robot
Minra Choi, Dukyoung Jung

UI/UX-P-192 Extracting Usability Factors on Mobile Application for Volunteer Participants in Private Dog Shelters in South Korea
Jinju Kim, Kicheol Pak, Ken Nah

UI/UX-P-193 Designing Safer Disposals: Comparative Usability Study of Sharps Disposal Containers
Miriam Stuckert, Lorenz Müller, Niels Hinricher, Chris Schröer, Hendrik Ludewig, Claus Backhaus, Elisabeth Ibenthal

UI/UX-P-194 Beyond Movement: Developing Wheelchair Design Concept for People with Spinal Cord Injuries
Dongheon Kang, Seon-Deok Eun, Jihyun Kim, Jiyoung Park

UI/UX-P-195 Minimalist User Interface Design for Web Shopping Applications
Jiajun Hou, Lei Luo, Masato Takanokura

UI/UX-P-196 Design of Combination Furniture to Improve Usability
Ruipeng Zhang, Lei Luo, Masato Takanokura

UI/UX-P-197 Effect of gaze direction and target tilt on pointing movement time
Seung-Kweon Hong, Hyeon Uk Noh

UI/UX-P-198 Usability test on future UX of Cockpit system
Myung Bin Choi, Tae Hun Kim, Tae Jin Kim, Seung Jae Kim, Kyung Hoon Kim, Soo Jin Peck

UI/UX-P-199 Designing Response Layouts of LLM-based Conversational Agents for Extended Reality Environments in Vehicles
Daun Kim, Jin-Woo Jeong

August 28 (Wed) | 16:45-18:15 | 6F Foyer

Visual-P-200 The comparison of cyber sickness in different display techniques in virtual reality games
Po-Hung Lin, En-Tzu Liu, Guan Ling Lin, Yu Hsuan Yang

Visual-P-201 Investigating the performance of visual spatial attention at different walking speeds
Tien-Hsueh Chen, Yun-Ju Lee, Szu-Wen Wang, Che-Yu Lin, Cheng-Yuan Chen

Visual-P-202 Distribution and central tendency of Icon search times
Seung-Kweon Hong, Yujeong Ha

Visual-P-203 Research on the Impact of Attention Allocation Methods on Rail Transport Safety Dispatch under Multi factor Conditions
Bo Li, Jinge Xuan

Visual-P-204 Evaluating the Impact of Display and Ambient Illuminance on Eye Blink Rate
Jun Hyung Lee, Daeyong Yang, Eui S. Jung

Visual-P-205 The impact of stimulus modality and intensity on eye blink rate as a source of distraction
Gyuyeon Son, Daeyong Yang, Eui S. Jung

VR-P-206 Development and Usability Evaluation of an AR Upper Limb Rehabilitation System for Stroke Patients
Yang-Kun Ou, Yang Chen Hsieh, Wei-Ru Chen

VR-P-207 Development of multidirectional locomotion based on walking-in-place technique for VR navigation
Juhee Kim, Mingi Shim, Wonjin Ko, Heejin Kim, Sang Jun Park, Yushin Lee

VR-P-208 QUANTITATIVE EVALUATION OF THE LUMINANCE RESPONSE OF THE MICROSOFT HOLOLENS 2 FOR MEDICAL APPLICATIONS
Simon Siebers, Simon König, Claus Backhaus

VR-P-209 Embracing the Ergonomics of Mixed Reality in the Operating Room in the Case of Laparoscopic Liver Cancer Surgery: Development and Application of a Hololens2-based 3D Visualization Software with the Surgeon Team
Nathan Vieira, Soyoung Lim, Wonchul Cha, Jinsoo Rhu

VR-P-210 The Effects of Mixed Reality Training on Laparoscopic Surgery: A Comparison of Head-Mounted Display and Real Environment Conditions
Hiroyuki Morikawa, Yoshihito Masuoka

VR-P-211 Exploring the Horizon: A Mini-Review on Head-Mounted Display Technologies and Their Future
Jaramier C. Joibi, Juyeon Park, Myung Hwan Yun

WWCS-P-212 A Study for Analyzing Accumulated Temporal Human Behavior Data: When Playing Blocks
Euisung Kim, Jieun Han, Gyu Hyun Kwon

JES-P-213 ESTIMATING RESILIENCE USING EYE TRACKING - RELATIONSHIP BETWEEN IMAGE TYPE AND ATTENTION BIAS -
Hokuto Matsui, Tomoki Yokota, Kentaro Kotani, Takafumi Asao, Satoshi Suzuki

JES-P-214 Research on Adaptive Task Allocation Algorithm for Multi-person and Multi-machine Collaboration Systems
Han Li, Jianwei Niu

JES-P-215 Sickness and Postural Balance in VR Gaming: Effects of Prolonged Exposure, Dynamic Levels, and Audio Presence
Karin Rizky, Shuping Xiong

JES-P-216 Enhancing Surgical Training: The Influence of Distractive Factors in Immersive Virtual Reality on Situation Awareness
Xintong Wu, Meng Li, Shuping Xiong

JES-P-217 Impact of reduced night work on shift workers' sleep
Se-Eun Kim, Hye-Eun Lee, Jung-Wan Koo

JES-P-218 Evaluation of 3D Printed Insoles on Comfort and Biomechanical Efficiency in Mid-Aged and Young Women: A Comparative Study
Sejong Byun, Jaejin Ryue, Jeonginn Choi, Ran Duan, Siddhartha Bikram Panday, Jungho Lee, Kikwang Lee

JES-P-219 The Effect of Ankle Pressure on Dynamic Balance in Basketball Players with Chronic Ankle Instability — Pilot Study
Xing Kailin, Jaejin Ryue, Shuyue Li, Siddhartha Bikram Panday, Jungho Lee, Kikwang Lee

August 28 (Wed) | 16:45-18:15 | 6F Foyer

JES-P-220 Color Labeling Data Reliability Issues and Solutions in Image Datasets for AI Training
Muhammad Umar, Mi Hong Lim, Woo Su Choi, Sanghun Lee

JES-P-221 The Analysis of the Correlation Between Workers' Emotions and Brainwaves: A Case Study of Hardware Engineers' Work Environments by Using Different Plant Essential Oils
Cheng-Han Tsai, An-Yang Su, Shi-You Qiu, Tsu-Wei Liao, An-Pin Wei, Ku-Yuan Lee, Pei-Jung Wu

ISO 1-P-222 Introduction to ISO/TC 159 (Ergonomics)

ISO 2-P-223 Introduction to ISO/TC 159 (Ergonomics)

ISO 3-P-224 Introduction to ISO/TC 159 (Ergonomics)

ISO 4-P-225 Introduction to ISO/TC 159 (Ergonomics)

ISO 5-P-226 Introduction to ISO/TC 159 (Ergonomics)

Posters

Online

Online Poster

AI-PO-1 Estimating lumbar compression force using LumboRisk AI technology
Yordán Rodríguez, Elizabeth Pérez, Manuel Martorell-González and Yasser León-Montes de Oca

Agi-PO-2 Home Care and Telemedicine Services: towards the development of guidelines for the design of interfaces and products
Claudia Becchimanzi, Francesca Tosi and Mattia Pistolesi

Agi-PO-3 An Experiment on the Impact of Interaction Guidance in Healthcare Systems on the Elderly
Yanmin Xue and Shuang Wang

Agr-PO-4 Analysis of musculoskeletal pain among Colombian - flower growers
Yordán Rodríguez, Jonathan Osorio-Vasco and Elizabeth Pérez

Ant-PO-5 A review of anthropometric databases for an inclusive workforce: constructing databases
Ana Maria Rincón Jaramillo, Marcus Yung, Amin Yazdani and Ornwipa Thamsuwan

Ant-PO-6 UNIVARIATE AND MULTIVARIATE FEMALE MEXICAN POPULATION MODELS FOR SITTING WORKSTATIONS
Graciela Rodriguez Vega, Dora A. Rodriguez Vega, Enrique J. De La Vega Bustillos and Francisco O. Lopez Millan

Build-PO-7 Urban Morphology, Comfort Conditions and Non-Ionizing Radiation in Home Offices located on Heat Islands in the city of João Pessoa, Brazil
Flavia De Brito and Luiz da Silva

CTE-PO-8 The use of Prototyping as an experience for teaching Ergonomics and Universal Design
Sabine De Paris, Mariana M. Pasa, Angela Weber Righi and Vanessa Goulart Dorneles

CTE-PO-9 Mental Workload on Engineering Students: A Compari-son Between Remote and Presential Teaching Using NASA-TLX
João Victor Razzera, Eduardo Duarte Pena and Angela Weber Righi

CTE-PO-10 CHANGES IN THE ACTIVITY SYSTEM OF A BRAZILIAN MUNICIPAL SCHOOL
Ingrid Betty, Sandra Gemma and Sandra Béltran

Gender-PO-11 Promotion of Gender Equality in a Brazilian University
Laura Elis Aguero Reis, Luciana Contrera and Alexandra M. A. Carvalho

Health-PO-12 Human factors and ergonomics in patient safety: topics and areas of interest among healthcare practitioners in Antioquia, Colombia
Yordán Rodríguez, Elizabeth Pérez and Yaniel Torres

Health-PO-13 Dynamic modeling of workload in ICU nursing services: A research proposal
Elizabeth Pérez, Juan Sebastián Jaén Posada and Yordán Rodríguez

Health-PO-14 Work Conditions of Public Health Agents Regarding Exposure to Agrochemicals: The Brazilian Reality
Laura Elis Aguero Reis, Bianca M. Godoy, Luciana Contrera, Alberth Ra Brito, Pedro A. O. Amarilha and Alexandra M. A. Carvalho

Macro-PO-15 Ergonomics Specialization at the University of Antioquia: enhancing ergonomist training in Latam
Yordán Rodríguez and Elizabeth Pérez

Manu-PO-16 Ergonomic redesign in the welding workstation of a Colombian vehicle assembly company
Elizabeth Pérez, Catalina González Londoño, Maria Camila Velásquez Manco and Yordán Rodríguez

Mus-PO-17 Ergonomic Evaluation of a Packing Collapsible Tubes Workstation with Emphasis on the Prevention of Musculoskeletal Disorders: A Case from a Small Colombian Company
Walter Martinez and Yaniel Torres

Mus-PO-18 Characteristics of standing work in the Colombian working population
Jonathan Osorio-Vasco, Carlos Javier Barrera and Yordán Rodríguez

Mus-PO-19 FAMI: A TOOL FOR ASSESSING OCCUPATIONAL RISK FACTORS RELATED TO LOWER LIMB FATIGUE
Yordán Rodríguez and Jim Potvin

Mus-PO-20 Musculoskeletal Discomfort among Deburr Operators of an Aerospace Parts Designing and Manufacturing Facility: A Correlational Study
Michelle Cariño-Adiwang and Ciejay Oandasan

Mus-PO-21 Work conditions and low back pain: an ergonomic assessment on a large retail store
Aouatef Mahfoudh, Imen Ouaz, Ines Rassas, Bel Haj Noura, Asma Kheder and Taoufik Khalfallah

Mus-PO-22 Postural work exposure and ergonomics of riding school employees measured with smart workwear
Åsa Bergman Bruhn, Cecilia Lindahl, Karin Andersson, Farhad Abtahi, Mikael Forsman and Frida Petters

Mus-PO-23 Ergonomic intervention for preventing work-related musculo-skeletal disorders among female office workers
Amira Omrane, Chayma Harrathi and Taoufik Khalfallah

Mus-PO-24 Ergonomic Assessment of the Palm Extraction Work Process in a Quilombola Community in Recôncavo Baiano
Sânzia Bezerra Ribeiro, Flávia Karine Leal Lacerda, Eliana de Almeida, Lilian Anabel Becerra de Oliveira, Maria Cecilia Leite de Moraes, Climene Camargo and Anderson Reis de Sousa

Others-PO-25 Comparison of Brain Activity Across Various STEM-Related Cognitive Tasks in University Students
Dylan Zupec, Seung-Min Mo and Jaejin Hwang

Others-PO-26 Technology proposal for the management of mental workload
Juan Lazaro Acosta Prieto, Joaquin Garcia Dihigo and Yilena Cuello Cuello

Others-PO-27 IMPACT OF THE PANDEMIC ON THE HEALTH AND WORKING CONDITIONS OF PEOPLE WITH SICKLE CELL DISEASE (SCD).
Sânzia Bezerra Ribeiro, Klerisson Lucas Freitas Martins, Lucas Alves Silva, Eliana Sacramento de Almeida, Flávia Karine Leal Lacerda, Lilian Anabel Becerra de Oliveira, Anderson Reis de Sousa and Silvia Lúcia Ferreira

Others-PO-28 Interventional effect of air purifiers on particulate matter pollution emitted by printers and their impact on cardiopulmonary function
Yun Wang, Hongbo Wang and Lizhi Lyu

Safety-PO-29 Hospital Teamwork: A case study of an anesthesia and resuscitation service
Aouatef Mahfoudh and Azza El Gharbi

Safety-PO-30 Occupational Cancer Notifications and their impact during the COVID-19 pandemic
Pedro Augusto de Oliveira Amarilha, Luciana Contrera, Laura Elis Aguero Reis, Carini S. Luciano and Alberth R. A. Brito

Space-PO-31 HUMAN-MACHINE INTERFACE FOR MISSION ASSISTANCE IN CASE OF OPTICAL SENSOR FAILURE
Andrew Sarmento, Ivan de Souza Rehder, Moacyr M. Cardoso Jr., Roberto Gil Annes da Silva and Emilia Villani

Transport-PO-32 The effects of horizontal and vertical angles on paired information discrimination in the HUD interface: A simulated driving study
Yan Ge and Ying Zhou

Transport-PO-33 The Acceptability of Automated Vehicles by Other road Users. Effects according to the type of vehicles.
Kevin Guelle, Nicolas Erdinger and Natacha Métayer

Visual-PO-34 Light Study at the Juarez Da Gama Batista PublicLibrary in João Pessoa, Paraíba, Brazil
Michael Jonathan Silva de Vasconcelos, Luiz Bueno da Silva, Ana Camille Carvalho Colque, Alicia Kristhine Brito De Almeida, Pryscila Vitória de Souza Guimarães and Carmem Julianne Beserra Melo

Visual-PO-35 STRUCTURE OF ATTRACTIVE INFOGRAPHIC DESIGN: FINDINGS FROM A SYSTEMATIC REVIEW
Yasuyuki Yamada, Takeshi Ebara, Mika Morishima, Saki Hosoi, Sora Watabe and Motoki Mizuno

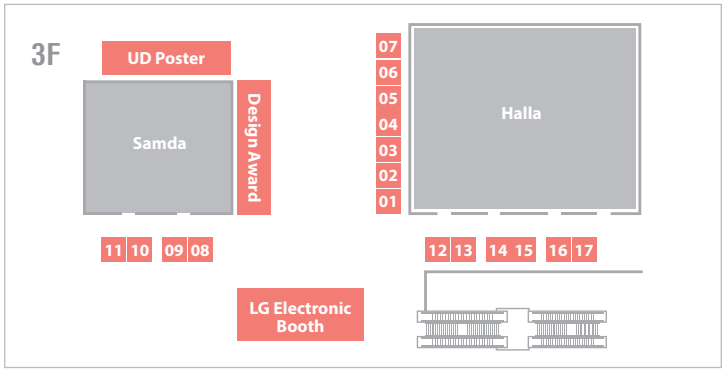
VR-PO-36 Derivation of usability evaluation factors for metaverse content through literature review
Jeongyoon Ahn, Nohyeon Kim, Jaehyun Choi and Sunah Kim

DHM-PO-37 Posture Estimation-based Spatial Modeling for Classifying Obscured Human Motion
Hari Iyer, Heejin Jeong

CTE-PO-38 Evaluating the Impact of Augmented Reality and Social Robots on Computational Thinking in Young Students: A Comparative Study
Jaejin Hwang, Yanghee Kim, Sungchul Lee, Joshua Mosher, Mohammad Faizan Sohail Lnu, Nikitha Koradala

Better Life
Ergonomics
for Future
Humans

Exhibition



Booth No.	Company Name
Main	LG Electronics Inc.
01	Harman International
02	Posture AI
03	SHIN-SEUNG HITEC
04	HUMAN MECHA
05	VISOL
06	BioNet Lab. Inc.
07	CIEHF UK (IEA 2027)
08	Xsens | Movella
09	USER Experience Researchers Pte Ltd
10	OBELAB
11	BODYFRIEND
12	ANYFIVE
13	HOSPI
14	Refind Inc.
15	KAERI (Korea Atomic Energy Research Institute)
16	NOKOV Motion Capture
17	SEED Technology Co., Ltd.
Gallery	Hankyong National University Universal Design Center

LG Electronics

Main

LG Electronics Inc.

https://www.lg.com/global/

Life's Good.

What is a good life?

At LG Electronics, we believe that a good life is about enjoying all precious moments to the fullest.

Like making a meal for a loved one, watching a live sports match with friends, taking some time to wind down, or driving towards a new destination.

Since 1958, we have made more than just top-quality TVs, computers, washers, and refrigerators. We've been welcomed into people's daily lives to help them experience a good life.

Now and going forward, we are committed to creating a better life for people and a better future for the planet.

Brand Promise: Life's Good

'Life's Good' should be reflected in our products, communication, and services as our promise, more than just a slogan, and we must spread it to people's lives, communities, and the environment as our belief.

Brand Mission: Innovation for a better life

We create a better life for people and a better future for our planet through smart life solutions*.

*smart life solutions: Contents, services and solutions bringing good to customers' lives through hardware, software, platforms, and applications.

Booth No. 01

Harman International

https://www.harman.com

HARMAN designs and engineers connected products and solutions for automakers, consumers, and enterprises worldwide, including connected car systems, audio and visual products, and enterprise automation solutions.

GENESIS I BANG&OLUFSEN BEOSONIC EXPERIENCE

Booth No. 02

Posture AI

https://www.neurabody.ai

Neurabody is revolutionizing workplace wellness with its cutting-edge AI/ML posture science platform, offering an innovative AIoT Spinal Solution that converges lifestyle and medical technology. This powerful solution continuously monitors and analyzes users' posture data, providing targeted pain interventions, customized solutions, and personalized pain management strategies like corrective exercises, stretches, and ergonomic recommendations tailored to individual needs. With seamless integration into existing corporate wellness initiatives, comprehensive data analytics, reporting, and a gamified reward system to encourage long-term engagement, Neurabody cultivates a healthier, more productive workplace by addressing the root causes of poor posture, reducing absenteeism and healthcare costs associated with musculoskeletal disorders, ultimately unlocking your team's full potential through the transformative power of AI-driven posture correction.

IoHT-based AI Posture Correction Platform for Back Pain Management

SHIN-SEUNG HITEC

Booth No. 03

SHIN-SEUNG HITEC

https://www.sshitec.com

Based on more than 30 years of experience and know-how, Shin Seung Hitec is mainly specialized in ergonomic equipment such as motion & physiological analysis, pressure mapping, gait analysis and so on, targets companies, universities, government and medical institutions.

Ergonomic equipment

HUMAN MECHA
Ergonomics
grip & finger force lab.

Booth No. 04

HUMAN MECHA

www.humanmecha.com

HumanMecca utilizes the K-Force equipment, which can measure the strength of each finger, to precisely assess hand strength and study the neuromuscular coordination system. The results of this research provide crucial data for monitoring an individual's health status. This equipment enables accurate and comprehensive evaluations through various measurement methods. As a result, users can effectively manage and improve their health conditions related to hand function.

Booth No. 05

VISOL

www.visol.co.kr

VISOL is a total video solution company established in 2000 with the founding philosophy of "Human and technology create future." With our customized, integrated systems, and know-how, we serve our customers in four main fields of businesses: testing solutions, sports solutions, AI synthetic data and motion capture solutions.

The motion capture solution division offers the world's No. 1 optical motion capture VICON, boasting 40 years of experience to serve Life Science, Entertainment and Engineering area. It covers from rehabilitation to Hollywood movie wherever our customer need to track movement and position in real life. You can also contact us for force plates, finger tracking gloves and facial capture solutions.

We have firmly established our position in each of these businesses, and they create a systematic synergy effect.

VICON Motion Capture Camera MANUS Gloves

Booth No. 06

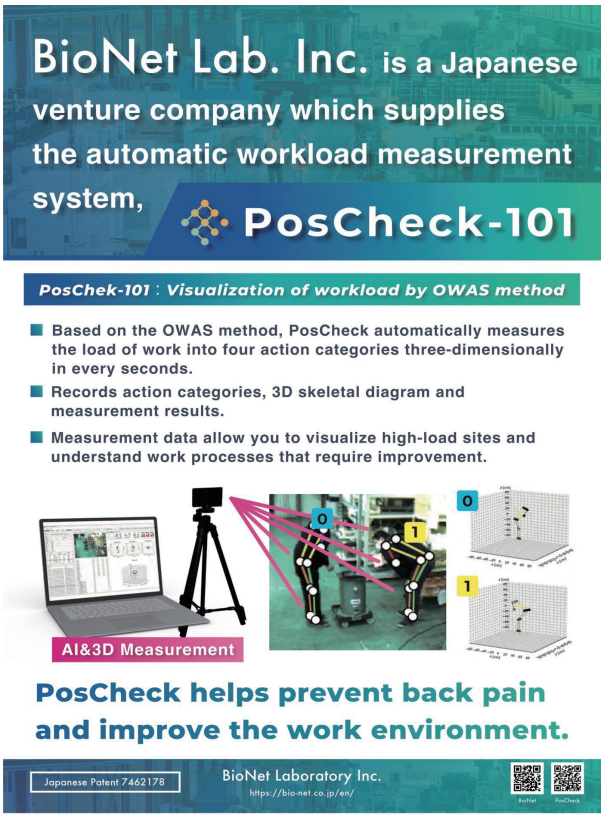
BioNet Lab. Inc.

www.bio-net.co.jp

BioNet Lab. Inc. is a Japanese venture company which supplies the automatic workload measurement system, PosCheck-101. PosCheck visualizes the actual workload by OWAS method. It is already installed in the factories of various industrial fields in Japan. In IEA-2024, BioNet exhibits PosCheck which measures action categories of OWAS method by real time monitoring actual postures with AI technology and 3-dimensional measurement method.

We look forward to seeing you at our booth. Please try different postures then, and you can view action category values in real time.

PosCheck-101



Booth No. 07

CIEHF UK (IEA 2027)

www.ergonomics.org.uk

The Chartered Institute of Ergonomics & Human Factors (CIEHF) is a community of researchers, designers, collaborators and innovators. We're a scientific, creative and industrious network of professionals and are committed to driving positive change.

Our strategic plan aims to help decision-makers understand the transformative impact of human factors across diverse sectors and disciplines. Our purpose is to help human factors professionals make life better and safer for people and society. Our ambition is to put people at the centre of economic, societal and technological change.

We support members and others in understanding their career options in the discipline. We help them on their journey through provision of learning and development opportunities. We publish content that educates, informs and adds to the advancement of human factors science. We organise online and in-person events and facilitate discussions to enable members to build their networks and feel part of a growing community that can make a real difference to people's lives.

We received a Royal Charter in 2014 to recognise the uniqueness and value of the scientific discipline and the preeminent role of the Institute in representing both the discipline and the profession in the UK. See more at www.ergonomics.org.uk

Booth No. 08

Xsens I Movella

www.movella.com

Create Safer, More Productive Work Environments with Xsens Motion Capture

Conventional ergonomic assessment methods are time-consuming, subjective, and often tedious. Xsens Ergonomic solutions enable the identification and prevention of musculoskeletal disorder risks, providing actionable insights to design safer and more productive work environments. Embrace a future focused on employee empowerment and well-being.

Motion Capture for Ergonomics Assessment

Booth No. 09

USER Experience Researchers Pte Ltd

www.user.com.sg

At the heart of innovation is our company's focus - you. User Experience Researchers Pte Ltd (USER) was founded on the idea of making lives better by transforming the way people work through human-centred strategies and technology.

USER, a Singapore-based company, is one of APAC's leading firms in UX consultancy, digital transformation, and flexible ICT staffing. We specialize in user research, UX/UI design, bespoke solutions, data analytics, AI and low-code platforms, usability testing, and talent acquisition. USER has several branches across the region - China, Japan, Vietnam, and the Philippines. We are a long-time partner for government agencies as well as 100+ multinational commercial entities, and compliant with ISO9001:2015 (QMS) and ISO27001:2022 (ISMS).

Our commitment is clear and consistent - to bring a better human experience in an innovative, sustainable way by being Focused on U.

We received a Royal Charter in 2014 to recognise the uniqueness and value of the scientific discipline and the preeminent role of the Institute in representing both the discipline and the profession in the UK. See more at www.ergonomics.org.uk

Booth No. 10

OBELAB

(주) 오비이랩

www.obelab.com

Become a Leading Brain Big Data Company

Providing affordable and convenient solution to research and clinical markets taking the lead in consumerization of brain monitoring and contribute to uncovering human brain functioning for better living.

Booth No. 11

BODYFRIEND

www.bodyfriend.co.kr

BODYFRIEND is a global healthcare company that aims to design your life. Our mission is to extend the 'Healthy Life Year' of our customers by 10 years. We have introduced and patented various innovative technologies of our time and received numerous awards from renowned institutions. Each of our product displays exceptional design excellence combined with top of the line user experience.

We strive to realize the dream of a 10 year extension of our healthy lifespan. Ou mission is to extend the healthful life expectancy of human race by 10 years. With much advances in modern medicine, human life expectancy has been stretched quite long.

BODYFRIEND accepts the unprecedented challenge. BODYFRIEND pioneers a new path. With your health at our utmost concern, BODYFRIEND has always challenged established ways and birthed innovative products. First medical R&D center, launched the first natural latex mattress bed brand, introduced the first water purifier with a straight pipe and a self-replaceable filter, the first brain-mental message machines, and the first massage chairs for juniors, to list a few BODYFRIEND has sought after the real solutions to help promote your health and well-being.

EDEN ROVO

ANYFIVE
IP-R&D Service Platform

Booth No. 12

ANYFIVE

www.anyfive.com

ANYFIVE is Korea's leading company specializing in R&D and intellectual property(IP) management solutions. We provide integrated database, solutions, and services for the discovery, management and commercialization of technology. And we offer global IP services through an IP platform and cloud services that connect with the global market. These services include intellectual property management, technology commercialization, brokerage/distribution, patent investigation and analysis, and patent annuity fee management.

ThinkCat Global, IP-Manager, K-Brain

Booth No. 13

HOSPI

www.hospi.co.kr

Hospi Co., Ltd. provides advanced human measurement and assessment equipment, including motion analysis and wireless EMG systems. Our tools are utilized across ergonomics, sports, and medical fields. We also offer consulting services for precise measurements and diagnostics, delivering customized solutions to meet client needs.

Qualisys

REFIND

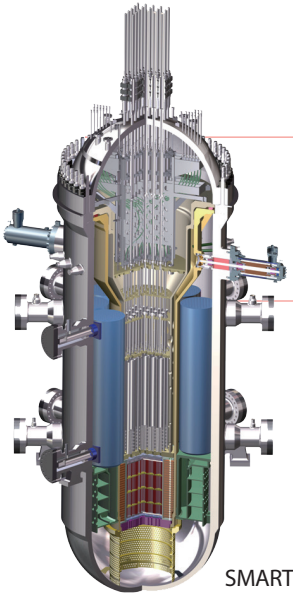
Booth No. 14

Refind Inc.

info.refind.kr

Refind Inc. specializes in the sale of a wide range of biosignal measurement systems. We distribute high-density flexible/stretchable electrodes(normal up to 32ch, 50% elongation rate) and its dedicated EMG system, EMG armbands (8ch), wearable EEG devices (up to 8ch), and motion analysis equipment. We are the exclusive distributor of products from Oymotion and Richintech.

Flexiable/Strechable High density electrode/EMG I EMG arm band I Wearable EEG



SMART SMR

KAERI Korea Atomic Energy Research Institute

Booth No. 15

Korea Atomic Energy Research Institute (KAERI)

www.kaeri.re.kr

KAERI, a government-funded research institute, contributes to academic advancement, energy acquisition, and utilization of nuclear energy through active research and development in related fields.

Booth No. 16

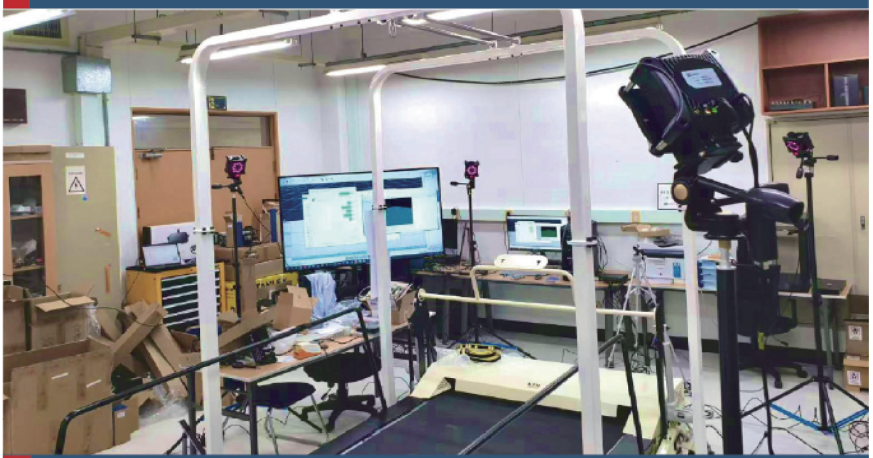
NOKOV Motion Capture

www.nokov.kr

NOKOV Motion Capture System, covers low, medium and high-end series, adapting to various customer needs. It has a rich SDK development package to obtain various point data/rigid body data/skeletal data etc. for motion capture, which can be easily integrated into various user applications. Stable supply chain management provide guarantee for delivery date.

Human Body Motion Capture

Integrated ergonomics in mechanical prosthetics research
Southern University of Science and Technology



Human-system integration-based rehabilitation robot development
Gwangju Institute of Science and Technology

Booth No. 17

SEED Technology Co., Ltd.

www.seedtech.co.kr

Business Area

: Supply of Ergonomics, Biomechanics and Robot analysis equipment in the Korea

Supply Maker

: NORAXON (EMG, Motion, Foot Pressure)

: BERTEC (Force Plate)

: NOVEL (Pressure Measurement)

: Zebris (Pressure Measurement)

Motion Capture I EMG I Force Plate I Foot Pressure I Biosignal Sensors

Gallery

Hankyong National University Universal Design Center

www.hknu.ac.kr

Hankyong National University is an Open Campus, a Networking Campus.

It is the best integrated higher education institution as an Evolving to Future Campus.

It consists of agricultural specialization, semiconductor specialization, and universal design.

It is a national university with the Universal Design Center.

Better Life
Ergonomics
for Future
Humans

Author Index

Author	Session
A	
Aamir Sohail Ashraf	Potpourri 4-S-2
Aaron Raphael Ricardo	UI/UX 8-O-1
Abdelkhaliq Mebarki	Build 1-S-1
Abdul Harizul Mustaqim Abdul Karim	Safety 4-S-6
Abdulelah Ali	Health-P-31, HFE-x-S-5
Abhinav Singh Tomar	Visual 2-S-5
Abhinay Balasani	Health 5-S-3, SYM 10-S-1
Abhinaya Paranikumar	INCOSE 9A
Abid Khan	SYM 15-O-4
Abigail Gillain Du Plessis	Mus 1-S-2
Abigail Wooldridge	Health 3-S-6, UI/UX 8-S-5
Achiraya Purin Yangsap	Health-P-22
Acran Salmen Navarro	SYM 15-S-2
Adelaide Nascimento	ATWAD 1-S-5, Resil 2-S-1
Adele Behzad	Mus-P-62
Adeline Masson	SYM 24-O-6
Adeola Bamgboje-Ayodele	Health 2-S-6, Panel Discussion 14
Aditya Subramani Murugan	Mus-P-51
Adjan Hansen-Ampah	AI 5-O-3
Adrian Boscolo	Health 2-S-6
Adrian Joseph Estrella	SYM 2-S-4
Adriana Araújo	ATWAD-P-5
Adriana Aristizabal	SYM 25-S-4
Adriana Savescu	Robot 2-S-3, SYM 3-S-1
Adrianne Ong	SYM 2-S-3
Adriano Papale	Mus 3-O-1
Adson Eduardo Resende	ATWAD 3-S-2, ATWAD 3-S-5
Adviye Irem Yuceel	UI/UX 8-S-5
Afrooz Shakeri	Mus-P-52
Agnès Van Daele	SYM 3-S-5
Ai Takizawa	Design-P-12
Aide Aracely Maldonado Macías	Manu 1-O-4, Manu 3-S-3, Sustain 1-O-2, UI/UX 3-O-3
Aika Kishigami	Health 6-S-2, Health-P-28
Aitor Iriondo Pascual	DHM 1-S-4
Aixian Li	CES-HMI-S-1
Akane Kitagawa	SYM 21-O-6
Akanksha Makkar	DHM-P-140

Author	Session
Akihiro Ohnihsi	Slips 1-S-6
Akiko Ide	Panel Discussion 2
Akinari Hirao	DHM 3-S-4, DHM-P-89
Al Salour	Aero 1-S-2
Alain Garrigou	Agr 1-O-1, ATWAD 1-S-5, Macro 1-O-4, Sustain 1-O-5, SYM 5-O-4, SYM 9-O-5
Alan Barr	Mus 5-S-4
Alan Chan	AI 2-S-1, ATWAD 5-O-2
Alana Maganha	Gender 2-O-2
Alberth R. A. Brito	Health-PO-14, Safety-PO-30
Alberto Ranavolo	Mus 3-O-1
Alec Gonzales	Health 4-S-3
Alejandra Polanco	DHM 3-S-1
Alejandra Robles	Manu-P-43
Alejandro Daniel Murga González	AI 5-O-2
Alejandro Salado	INCOSE 7B
Alessandra Rinaldi	Trans 4-O-1, SYM 29-O-5
Alessandro Andreoli	Health 2-O-2
Alessandro Cerri	Health 1-S-4
Alessandro Jatoba	Resil 2-S-6
Alessandro Naddeo	Trans 4-O-2
Alessia Brischetto	UI/UX 4-O-1, VR 4-O-1, Design 4-O-3, SYM 28-O-1, SYM 28-O-3
Alessia Negrini	ATWAD 6-O-1
Alessio Silvetti	Mus 3-O-1
Alexander Belluccio	Space 1-S-4
Alexander Mertens	Visual 1-S-3, Robot 1-O-2, Mus 7-S-4, Safety 4-S-4, SYM 26-O-4
Alexander Nieuwborg	Resil 3-S-3
Alexander Schollemann	SYM 26-O-4
Alexandra Boeing	INCOSE 12
Alexandra Chronopoulou	UI/UX 8-S-5
Alexandra M. A. Carvalho	Gender-PO-11, Health-PO-14
Alexandra Wade	Ant 1-O-2
Alexandra Watral	Resil 1-O-2, Health 3-O-5
Alexandre Charbonneau	Agr 1-O-1
Alexandre Disdier	INCOSE 5B, INCOSE 12
Alexandria Christoforatos	INCOSE 12
Alexis Lussier Desbiens	Slips 2-O-1
Alfredo Carbonell	Health 4-S-3
Ali Karevan	Manu 1-O-2
Ali Shirzadeh	Slips 1-S-4

Author	Session
Ali Siadat	ATWAD 1-S-4
Alice Cheng	Safety 1-S-5
Alicia Kristhine Brito De Almeida	Visual-PO-34
Aliénor Morvan	WWCS 1-S-3, SYM 24-S-5
Aline Brufato	Potpourri 1-O-1
Aline Lechaume	SYM 9-S-4
Alireza Choobineh	UI/UX 3-O-1
Alireza Mortezapoursoufiani	Trans 4-O-2
Alisher Saduakas	Product 1-S-2
Alison Novak	Ant 1-S-3
Alistair Furnell	Ant 1-O-2
Alivia Kirana Hartono Putri	UI/UX 3-S-6
Alma Maria Jennifer Gutierrez	UI/UX 8-S-6, SYM 2-S-1
Alyana Nicole Abad	Block-P-132
Aman Shah	Space 1-S-4
Amar Devadas	UI/UX 9-S-3
Amarjeet Mohanty	Health 1-O-3
Ambareen Khan	Safety 6-S-4
Amber Cripps	SYM 5-O-3
Amberly Hess	Health 3-O-5
Amelie Reitmayer	Potpourri 1-S-5
Amin Yazdani	Ant-PO-5
Aminu Abdullahi	Safety 3-S-6
Amira Omrane	Safety 3-O-4, Mus-PO-23
An Neven	Trans 2-S-3
Ana Camille Carvalho Colque	Visual-PO-34
Ana Maria Rincón Jaramillo	Ant-PO-5
Ana María Velasco-Vivas	Safety 1-S-3
Ana Patino	INCOSE 12
Anael Alves	Agr 1-O-2, Design 1-O-1
Anantha Ubaradka	VR 5-S-4
and Behzad Esmaeili	Mus 6-S-6
and Janina Elyse Reyes	UI/UX 1-S-4
Anderson Nogueira de Lima	ATWAD 5-S-3
Anderson Reis de Sousa	Mus-PO-24, Potpourri-PO-27
Andrea Altepost	AI 5-O-3
Andrea Parri	Robot 1-S-3
Andreas Lind	DHM-P-140
Andrés Fandiño-Losada	Gender 2-O-1

Author	Session
Andrew Dattel	Space 1-S-4
Andrew Hargreaves	SYM 25-S-1
Andrew Jaeyong Choi	SYM 26-S-2
Andrew Koch	SYM 1-S-1
Andrew Sarmento	Space-PO-31
Andrew Thatcher	SYM 18-S-2, Panel Discussion 11, Workshop 8, EC 2, EC 3, INCOSE 13B
Andrew Todd	CTE 4-S-6, Panel Discussion 2
Andy Cheng	Mus 5-S-6
Andy Freivalds	Keynote 5.2
Angela Caro-Rojas	SYM 25-S-4, Panel Discussion 15
Angela Carta	Health 2-O-2, Safety 3-O-3
Angela Muriset	UI/UX 5-S-2
Angela Silvia Pavesi	SYM 29-O-6
Angela Tan	CTE 3-S-4
Angela Weber Righi	Resil 1-O-1, CTE-PO-8, CTE-PO-9
Angélica Paola Fajardo Escolar	CTE 4-S-2
Angelimarie Miguel	Product-P-165, SYM 2-S-4
Angelo Gabriel Reyes	UI/UX 6-S-2
Angelo Rondi	Health 2-S-3, Health 2-S-5
Angie Daniela Alomia Poveda	Product-P-164
Anindya Ganguli	AI 3-O-1, IEA/ISO 3
Anisful Lailil Munawaroh	Build 1-S-5
Anita Abdul Rahman	CTE 4-S-1, Safety 6-S-2
Anjali Joseph	Health 4-S-3
An-Jo Sun	Safety-P-70
An-Marie Schyvens	Trans 2-S-3
Ann Sophie Lauterbach	SYM 18-O-3
Anna Chatzi	Safety-P-67
Anna Sophia Piacenza Moraes	Sustain 1-O-3
Anna Syberfeldt	DHM-P-140
Annaëlle Soulet	SYM 22-S-3
Anna-Maria Meer	Safety 7-S-4
Annemarie Hultberg	Potpourri 4-S-5
Annick Durny	Resil 3-O-1
Annie Jolivet	SYM 23-S-6
Annika Boos	Robot-P-65
Annu Haapakangas	SYM 18-O-4
Anouk Aubert-Simard	ATWAD 6-O-1
An-Pin Wei	JES-P-221

Author	Session
Anping Xie	Health 4-S-1
Antoine Girard	ATWAD 3-S-3, CTE 3-O-1, SYM 3-O-2
Antonella Tatarelli	Mus 3-O-1
António Lobo	Trans 2-O-2
Antonio Lorenzo Sahagun	UI/UX 1-S-5
Antonios E. Gkikakis	Slips 1-S-3
An-Yang Su	JES-P-221
Ao Jiang	Ant 1-S-6, UI/UX 10-S-1
Aouatef Mahfoudh	Mus-PO-21, Safety-PO-29
Aparna Singh	INCOSE 9A
Araco Carissa	UI/UX 1-S-5
Aram Cho	SYM 23-S-5
Arash Ajoudani	Panel Discussion 12
Ardiyanto Ardiyanto	UI/UX 2-S-5
Aria Panchal	SYM 29-S-1
Arlen Garagay Plaza	CTE 2-O-1, Mus 4-O-2, VR 1-O-3, SYM 15-S-2
Armeila Khiyana Cunanan	Block-P-132
Artemis Drakos	SYM 22-O-1
Arto Reiman	Sustain 2-O-2
Arunachalam Muthiah	Mus 6-S-2
Arvind Kolangarakath	Health 6-S-4
Åsa Bergman Bruhn	Mus-PO-22
Asgeir Drøivoldsmo	Potpourri 1-S-4
Ashley Sylvara	Design-P-14
Ashley Wheeler	SYM 1-S-1
Asma Kheder	Mus-PO-21
Astrid Rosenthal-von der Pütten	AI 5-O-3
Asuka Hirata	Kansei 2-O-5
Aswin S	Design 2-S-4
Atsushi Shimada	Visual 1-S-4
Atsushi Sugama	Mus 4-S-4
Atul Thakur	AI 3-O-1
Aude Cuny-Guerrier	Robot 2-S-3
Augustine Acquah	SYM 15-S-1, SYM 15-S-5
Aura Matias	Safety 2-S-3, Safety 2-S-4
Aurel Manolescu	Macro-P-150
Aurélie Landry	DHM 2-O-1, Potpourri 5-S-3
Avi Harel	INCOSE 9A
Ayotzin Tamara Garcia Molina	Potpourri-P-156

Author	Session
Ayoub Bourhim	ATWAD 5-O-1
Ayumi Tanaka	Ant-P-131
Azalea Hani Othman	Safety 6-S-2
Azza El Gharbi	Safety-PO-29

B

B Surya Kumar Chhetry	Safety 5-S-3
Barbara Oggioni	ATWAD 2-O-4, WWCS 1-O-2, SYM 24-O-3
Barbara P. Oggione	ATWAD 2-O-2
BARCELLINI FLORE	Workshop 5
Barrett Caldwell	Aero 1-S-3
Barry Kirby	Workshop 8
Basak Ramaswamy	INCOSE 12
Beatriz Anne De Jose	UI/UX 5-S-6
Beatriz Bandeira dos Santos	ATWAD 5-S-4
Begoña Juliá Nehme	Panel Discussion 9
Behzad Esmaeili	SYM 26-S-1
Beiming Song	AI 5-S-5
Bel Haj Noura	Mus-PO-21
Bemildo Alvaro Ferreira Filho	Aero 1-O-1
Ben Peachey	Panel Discussion 9, Panel Discussion 11
Ben Powers	Slips 3-S-1, Slips 3-S-2
Benedikta Anna Haulian Siboro	VR 4-S-5
Benette Custodio	Mus 7-S-3
Benjamin Anderson	Ant 1-S-4
Benkun Chen	AI 5-S-5
Benoît Langard	Build 2-S-3
Beom-Su Kim	UI/UX 3-S-5, UI/UX 3-S-6
Beomyoung Jeong	Kansei-P-40
Bernard Martin	Keynote 2.1, SYM 15-S-1, SYM 15-S-5, Mus-P-46
Bernhard Hollaus	VR 5-S-1
Bethany Van Dort	SYM 25-S-1
Bettina Abendroth	Design 2-S-5, Trans 3-S-5
Bettina Thompson	Resil 1-O-2
Betül Korkmaz	Health-P-26
Betul Ustun	UI/UX 9-O-1
Bianca M. Godoy	Health-PO-14
Bianca Souza Jordão	CTE 2-S-6, Potpourri 2-S-6
Billy So	Mus 5-S-6

Author	Session
Binbin Ye	CTE 1-O-1
Bingchen Gou	UI/UX 10-S-1
Bingmin Guo	CTE 1-O-1
Bingxin Zhang	CES-Smart Device-S-3
Binxue Wang	CES-Design-S-7
Björn Kahl	Safety 7-S-4
Bo Chen	CES-Biophysical-S-1
Bo Li	Visual-P-203
Bo Yuan	UI/UX 10-O-5
Boess Stella	Product 2-S-5
Bongwon Suh	SYM 31-S-2
Boubakeur Boufama	Mus-P-51
Bouhafs Mebarki	Agi 1-S-2, Agi 2-S-3, CTE 3-S-5, Health 1-S-6, Mus 1-S-3, Mus 1-S-6, Trans 5-S-2, Build 1-S-1
Boyu Xu	CES-HMI-S-5
Brad Schroeder	CTE-P-135
Bradford Schroeder	AI-P-122
Brahim Zaoui	CTE 3-S-5
Brandon King	AI 1-S-4
Brenda Ivonn Rodriguez Romero	Potpourri-P-156
Brenda Pereira Teixeira	WWCS 1-O-1
Brent Peters	Trans 2-S-3
Brian Corner	SYM 1-S-1, SYM 1-S-5
Brian Heckman	Product 4-S-4
Brian W. Patterson	Macro 2-S-4
Bridget Pulos	Resil 1-O-2
Britta Weber	SYM 8-S-1, SYM 8-S-2, SYM 8-S-3, SYM 8-S-4
Brittney Blaska	Macro 2-S-4
Bronwen Otto	Macro 3-S-3
Bruno Thurner	AI 3-S-5, Mus 4-S-3, Mus-P-50
Bruno Vallespir	Sustain 1-O-5
Bryant Beeler	INCOSE 15B
Byeong Ju Jo	SYM 17-S-3
Byeonghee Won	Mus 8-S-2
Byoungil Sun	SYM 4-S-1
Byoung-Keon Park	DHM 1-S-5, SYM 1-S-5
Byung Duk Song	SYM 17-S-2, SYM 17-S-4
Byung-Gyoo Kang	CES-Interact-S-5
Byungkyu Choi	Kansei 3-S-5, Mus 5-S-5
Byung-Woo Ko	Health-P-30

Author	Session
C	
Cai Wang	SYM 2-S-5
Caila Jean Yap	UI/UX 6-S-2
Caitlin Troussier-Thévenot	Build 2-S-3
Calvin Röhl	SYM 26-O-4
Camerine Ballantine	SYM 25-S-1
Camila Marins	ATWAD 2-O-3, WWCS 1-O-2, SYM 24-O-3, SYM 24-O-4
Camilla Dahlqvist	SYM 8-O-5
Camilla Zetterberg	Visual 1-S-2
Camille Echeverria Pereira	Potpourri 1-S-6
Camille Jullienne	ATWAD 1-S-6
Camilo Albuja	Mus-P-46
Candoli Matteo	Workshop 4
Canqun He	CES-Interact-S-1
Carini S. Luciano	Safety-PO-30
Carisa Harris-Adamson	Mus 5-S-4, Panel Discussion 6, Panel Discussion 7
Carl Lind	Panel Discussion 7
Carla Aparecida Gonçalves Sirqueira	Mus 1-O-1, Product 4-O-1
Carla Barroso	Health-P-24
Carla Langella	Design 1-O-2
Carlo Caponecchia	Design 3-S-1, Safety 1-S-5
Carlos Aceves	Panel Discussion 15
Carlos Aceves-González	SYM 25-S-4, SYM 29-S-2
Carlos Ibarra	Informal 1-O-3, Potpourri 3-O-1
Carlos Ibarra Villanueva	Gender 2-O-3, Health 3-O-4
Carlos Javier Barrera	Mus-PO-18
Carlos Real	Manu 1-O-1, Manu 1-O-3
Carlos Rubio	Health 3-O-4
Carlotta Sartore	Potpourri-P-158
Carmem Julianne Beserra Melo	Visual-PO-34
Carmen Bușneag	Safety 2-S-1
Carmen Leicht-Scholten	SYM 26-O-4
Carolina Alonso	Agr 1-O-2, Design 1-O-1, Product 3-O-1
Carolina Carvalho Manhães Leite	UI/UX 8-S-5
Carolina Daza Beltrán	CTE 4-S-2
Carolina Felix Regis	Product 3-O-1
Carolina Maria do Carmo Alonso	ATWAD 5-S-3
Carolina Mathias Esporcatte	ATWAD 5-S-4
Carolina Rosa	Safety 5-O-1

Author	Session
Caroline Jolly	ATWAD 6-O-1, Macro 1-O-4
Caroll Lau	Trans 4-S-6
Carrie Lin	Panel Discussion 13, Space-P-87, INCOSE 9A
Cassandra Madigan	Potpourri 1-S-5
Catalina González Londoño	Manu-PO-16
Catherine Burns	Resil 2-S-4
Catherine Delgoulet	Macro 1-O-2, Macro 2-S-3, Resil 3-O-1, SYM 22-S-3
Catherine Laurent	Safety 6-S-6
Cecilia Berlin	VR 4-S-4
Cecilia De La Garza	Resil 2-S-1, Panel Discussion 2, Panel Discussion 10
Cecilia Lindahl	Mus-PO-22
Cedric Nathaniel Yu	UI/UX 5-S-3
Céline Chatigny	SYM 9-S-2, SYM 22-S-2
Céline Lemercier	Trans 3-S-6, UI/UX 7-S-4
Cerbai Marco	Workshop 4
Cesar Giracca	Safety 5-O-1
Cesar Luis Silva	Mus 1-O-1, Product 4-O-1
Chaehyun Lee	SYM 7-S-2
Chaemoon Yoo	UI/UX 2-S-4
Chaewon Park	UI/UX 7-S-6
Chaeyeon Baek	SYM 12-S-1
Chahyun Sim	SYM 12-S-1
Chandra Dewi Kurnianingtyas	CTE 4-S-5, Safety 1-S-6
Chang Gi Lee	Health-P-29
Chang S Nam	SYM 7-S-1
Chang S. Nam	SYM 26-O-6
Chang-Geun Oh	SYM 14-S-6
Changho Lee	UI/UX 3-S-4
Changshik Jang	SYM 4-S-3
Changxu Wu	CES-Interact-S-6
Chanon Kongkamol	Mus 6-S-1
Chanwook Park	UI/UX 6-S-1
Chanya Jiemjai	Mus 6-S-1
Chao Sun	CES-Biophysical-S-4, CES-Biophysical-S-5
Chaoyi Zhao	CES-HMI-S-1, IEA/ISO 2
Charline Depoorter	Potpourri 5-S-6
Charlyne Poncato	Macro 2-S-3
Charmine Saflor	Visual 2-S-4
Charmine Sheena Saflor	Gender 1-S-3, Safety 6-S-5, UI/UX 5-S-6

Author	Session
Chayma Harrathi	Mus-PO-23
Che-An Liu	Mus-P-58
Chein Yang	Product-P-163
Chen Tai	Transport-P-183
Cheng-Han Tsai	JES-P-221
Cheng-Hsuan Hsu	Trans 4-S-4
Chengming Chen	CES-GEN-P-6, CES-Transport-S-6
Chengqi Xue	Design 3-S-2, Slips 3-S-3, CES-Aging-S-4, CES-Aging-S-5, Panel Discussion 3
Chengshun Li	CES-Physical-S-3
Chengyi Liu	Safety 2-S-6, CES-Physical-S-2
Cheng-Yuan Chen	Visual-P-201
Chengzhao Zou	CES-Physical-S-1
Chen-Wei Chang	Transport-P-94
Che-Yu Lin	Visual-P-201
Chi Chia-Fen	Product 3-S-6
Chi Liu	CES-Health-S-6
Chia-Fen Chi	Product 4-S-6, Trans 4-S-3
Chieh-An Hsieh	Health-P-23
Chien-Chi Chang	CTE 2-S-2, Mus 1-S-5, VR 6-S-2, Mus-P-57, Panel Discussion 1
Chiharu Sasaki	Product 1-S-6
Chih-Feng Cheng	AI-P-120
Chiho Lim	SYM 13-S-3
Chih-Shao Wang	Health-P-23
Chih-Yong Chen	Health-P-34, Health-P-35, Mus-P-55, Mus-P-57
Chih-Yu Hsiao	Gender-P-16
Chi-Lun Hung	Safety-P-70
Chin Chin Tsun	Safety 6-S-4
Ching-Chung Chen	CTE-P-139, Health-P-34, Health-P-35, Mus-P-55
Ching-Wen Lien	Agi-P-129
Chin-Jung Chao	Transport-P-182
Chin-Mei Chou	Safety-P-70
Chiuhsiang Joe Lin	VR 4-S-5
Chiuhsiang Lin	AI-P-120
Chiyoung Cha	SYM 23-S-5
Chloe Bennett	Aero 1-S-5, Transport-P-189
Chloé Le Bail	Safety 3-O-1
Chongfeng Li	CES-Transport-S-3
Chorong Park	Kansei 1-S-5
Choung Keun Lee	Agr-P-1

Author	Session
Chris Baber	AI 1-S-4
Chris Mayhorn	Trans 3-S-3
Chris Polaczuk	Build 1-S-2
Chris Reid	Panel Discussion 13, Panel Discussion 17
Chris Schröer	Health 2-S-4, Health 5-S-2, Health 5-S-4, UI/UX 1-S-6, UI/UX 8-S-2, UI/UX-P-193
Chris Su	Panel Discussion 3
Christelle Casse	ATWAD 4-O-4, SYM 24-O-6
Christian Di Natali	Mus-P-60
Christian Larivièr	SYM 8-S-6
Christian Richter	VR 6-S-5
Christina Kirsch	Ant 1-O-2, Trans 2-O-1
Christine Diane Ramos	UI/UX 8-S-6
Christine Holmstedt	Health 6-S-4
Christine Jeoffrion	Potpourri 5-S-3
Christine Petr	ATWAD 5-O-1
Christine Seitz	Design-P-14
Christine Vidal-Gomel	SYM 3-S-3, SYM 3-S-4
Christoph Preusse	Keynote 2.2
Christoph Schiefer	SYM 8-S-2
Christoph Wetzel	Slips 3-S-4
Christophe Mundutéguy	ATWAD 4-O-3
Christopher Mayhorn	Agi 2-S-2
Christopher Reid	Resil-P-64, Panel Discussion 6
Chulhun Choi	SYM 13-S-2
Chun Hwee Chin	Safety 7-O-1
Chunlei Chai	Ant 1-S-6, Product 1-S-5
Chunlong Yu	DHM 2-S-4
Chun-Ting Wu	CTE-P-136
Chunxi Huang	CTE 4-S-4, Trans 5-S-3
Chun-Yao Wang	Potpourri-P-154
Churu Yu	Transport-P-179
Chuyu Huang	ATWAD 5-O-2
Ciejay Oandasan	Mus-PO-20
Cinthia Pizarroso	Health 3-O-4
Cioli Barazandeh	Aero 1-S-3
Claire Deacon	Build 1-S-3
Clara Schoose	Robot 2-S-3
Claudia Becchimanzi	Agi 1-O-1, Agi-PO-2
Claudia Ferreira Mazzoni	CTE 2-S-6, Potpourri 2-S-6

Author	Session
Claudia Giliberti	Gender 1-O-2
Claudia Mont'Alvão	AI 1-O-1, UI/UX 8-S-3, UI/UX 9-S-4
Cláudia Pereira	Macro 1-O-2, SYM 22-S-4
Claudia Porfirione	SYM 28-O-3, SYM 28-O-5
Claudio Violante Ferreira	ATWAD 5-S-4
Claus Backhaus	CTE 4-S-3, Health 2-S-4, Health 5-S-1, Health 5-S-2, Health 5-S-4, UI/UX 1-S-6, UI/UX 8-S-2, UI/UX-P-193, VR 1-S-5, VR 4-S-3, VR-P-208
Clément Guérin	DHM 1-O-2
Cleo Bennett	Aero 1-S-5, Transport-P-189
Climene Camargo	Mus-PO-24
Clinton Horn	Resil 3-S-5
Clive D'Souza	SYM 15-S-1, SYM 15-S-2, SYM 15-O-4
Coby Jan Angelo Yu	Potpourri 1-O-2
Colin Brigham	Health-P-19
Colin Drury	Trans 4-S-3
Colombini Daniela	Workshop 4
Conrad Boton	Safety 1-O-2
Cornelia J.. Minton	Workshop 2
Coutarel Fabien	Potpourri 1-S-6
Cristiana Perego	SYM 29-O-6
Crystal Lee	Trans 3-S-3
Cyril Bossard	CTE 2-S-4

D

Da Young Ju	Trans 1-S-4, Trans 1-S-5, UI/UX 2-S-1
Daan van Eijk	Product 3-S-4
Daehui Kim	Trans 3-S-2
Daehun Lee	Potpourri 5-S-4, Product 1-S-2
Daeun Gwon	SYM 7-S-3
Daeun Joung	UI/UX 5-S-4
Daeun Kim	UI/UX 10-S-3
Daeyeon Kim	Health-P-32
Daeyong Yang	Product-P-162, Visual-P-204, Visual-P-205
Daiji Kobayashi	IEA/ISO 2
Dain Kim	Safety-P-82
Daisuke Karikawa	DHM 3-S-3, Resil 3-S-6
Daisuke Suzuki	Trans 5-S-6
Dakyung Hwang	WWCS 1-S-4
Dan Högberg	DHM 1-S-4

Author	Session
Dan Perreault	INCOSE 5A
Dan Pu	AI 2-S-5
Dana Albright	Health 5-S-3, SYM 10-S-1
Danie Jon	ATWAD 3-S-1, ATWAD 4-S-5
Daniel Côté	SYM 9-S-1
Daniel F. Silva	Mus-P-47
Daniel Holder	Trans 3-O-4
Daniel Horst	Kansei 2-O-5
Daniel Odéen	Potpourri 1-S-4
Daniel Ricardo Suarez Venegas	CTE 4-S-2
Daniel Silva	ATWAD 4-O-2
Daniela Olivato	Health 2-O-2
Daniele Busciantella-Ricci	SYM 29-O-5
Daniele Pucci	Potpourri-P-158
Danielle Alexandria Pasia	UI/UX 5-S-6
Danielle Deidun	SYM 25-S-1
Danielle Porter	Mus-P-13
Danny H. Callaghan	Mus 3-S-5
Daphne Ho	Mus-P-13
Dario Menicagli	Health 2-S-3
Darius Nahavndi	VR 3-O-1
Darunee Sonwongkaew	Safety-P-81
Darwin Caldwell	Slips 1-S-3, Mus-P-60
Daun Kim	UI/UX-P-199
Dave Withey	Product 4-S-5
David Caple	EC 2
David Houston	Ant 1-S-3
David Neyens	SYM 25-S-2
David O'Hare	Potpourri 3-S-6
David Rempel	Panel Discussion 17
David Scherb	DHM 1-S-3
Davide Ciaghi	Potpourri 2-S-3
Davood Dadkhah	Slips 1-O-1
Da-Woon Jeong	VR-P-90, VR-P-91
Déborah Gaudin	CTE 3-O-1, SYM 3-O-2
Deborah McCarter	UI/UX 8-S-5
Dechen Wu	CTE 1-O-1
Dechristian Barbieri	Health 4-S-3
Dedong Zheng	Ant 1-S-6

Author	Session
Delgoulet Catherine	Macro-P-97
Delia Mihaila	Safety 2-S-1
Dengbo He	CTE 4-S-4, Trans 5-S-3
Deng-Kai Chang	Safety-P-76
Dengkai Chen	CES-HMI-S-3, CES-Smart Device-S-5
Denis I Chavez	Visual 1-S-1
Dennis Erasga	SYM 2-S-1
Dennis Larson	AI 4-S-2
Denny Yu	VR 5-S-1, Panel Discussion 4
Denys Denis	Potpourri 3-O-1, SYM 8-S-6
Devon Frayne	Mus-P-56
Dewei Zhu	Robot 1-S-5
Deyu Sun	CES-Physical-S-3
Dhennise Maala	Product-P-160
Di Liu	AI 2-S-5, AI 5-S-5, AI-P-124
Dian Darina Indah Daruis	Safety 2-S-5
Dian Yu	Kansei 3-S-4, Macro 3-S-4
Diane Mari Dee	Potpourri 1-O-2
Dianne Tolgyesi	Mus-P-13
Diego Alberto Vázquez	Manu 2-S-5
Dimitri Masson	INCOSE 1, INCOSE 3, INCOSE 11A, INCOSE 17A, INCOSE 18
Diogo Costa	Safety 5-O-1
Divya Srinivasan	Health 4-S-3, Mus 8-S-3, Panel Discussion 6
Diyong Long	Product 1-S-5
Do Yeon Koo	AI 2-S-3
Dohoon Kwon	AI 4-S-1, DHM-P-143
Doil Kim	Slips 1-S-5
Dokshin Lim	Health-P-32
Dong Liu	Potpourri 5-S-6
Dongguang Yu	Space 1-S-4
Donggun Park	Safety 3-S-5, VR 4-S-2
Dongha Kim	UI/UX 7-S-6
Dong-Han Ham	Safety 5-S-6
Dongheon Kang	UI/UX-P-194
Donghoon Lee	Mus 8-S-2
Donghoon Seu	SYM 14-S-4
Dongjoon Kong	Aero 1-S-2
Dongjuan Xiao	UI/UX 6-S-4
Donglin Li	Trans 5-S-4

Author	Session
Dongwook Hwang	AI 4-S-3, Transport-P-185, UI/UX 2-S-3
Donna Roberts	Health 6-S-4
Dor Gonen	VR 2-S-3
Dora A. Rodriguez Vega	Ant-PO-6
Doru Costin Darabont	Macro-P-150
Dou Liu	AI 2-S-5
Douglas Renato de Castro Silva	Resil 1-O-4
Doyoung Lee	Trans 1-S-3
Drielle Estrazulas	Mus 4-S-3
Dukyoung Jung	UI/UX-P-191
Dustin LeBlanc	Health 6-S-4
Dwight Werren	Mus-P-54
Dyah Santhi Dewi	Safety 4-S-2, UI/UX 3-O-2
Dylan Zupec	Potpourri-PO-25

E

Ed Oomes	Resil 3-S-3
Edmar Thomaz da Silva	VR 2-O-1
Eduardo de Castro Assis	Mus 1-O-1, Product 4-O-1
Eduardo Duarte Pena	CTE-PO-9
Eduardo Ribeiro Nicolosi	ATWAD 5-S-4
Ei Jia	CES-COG1-S-6
Eileen McDonald	Health 4-S-1
Eiwen Lo	Health-P-34, Health-P-35
Ekarat Sombatsawat	Mus 6-S-1, Mus 6-S-5
Ekin Uhri	INCOSE 4
Elaine Cristina Silva	Mus 1-O-1, Product 4-O-1
Elbatoul Muhammad	Safety 3-S-6
Elena Camossi	Product 1-O-3
Elena Carolina Li	Product 2-O-3
Elena Polleri	Design 4-O-6
Eleni Bardaka	Trans 3-S-3
Elgin Lin	SYM 29-S-1
Eliana de Almeida	Mus-PO-24
Eliana Sacramento de Almeida	Potpourri-PO-27
Eliel Oliveira	ATWAD 5-S-6, Resil 1-O-3
Eliel Prueza	ATWAD 3-S-4
Elina Parviainen	INCOSE 13B, INCOSE 5A, Sustain 2-O-2
Elina Tulenheimo-Eklund	SYM 18-O-4

Author	Session
Elisa Fabbri	Health 2-S-5
Elisabeth Andrews	Health 5-S-3, SYM 10-S-1
Elisabeth Ibenthal	Health 2-S-4, SYM 8-S-4, UI/UX 1-S-6, UI/UX-P-193
Elise Ledoux	Macro 1-O-4
Élise Ledoux	Gender 2-O-1, Potpourri 3-O-1
Eliza Kronenberger	Trans 1-O-1
Elizabeth Benson	SYM 6-S-2
Elizabeth Johnson	Slips 1-O-1
Elizabeth Mayland	Design 3-S-1
Elizabeth Pérez	Agr-PO-4, AI-PO-1, Health-PO-12, Health-PO-13, Macro-PO-15, Manu 1-O-4, Manu-PO-16
Elizabeth Perry	SYM 1-O-4, SYM 1-S-2
Elleke Ketelaars	SYM 22-O-1
Els Clays	Mus 2-S-4
Elsa Gisquet	SYM 22-O-1
Elton Nickel	Kansei 1-S-4
Emauel Robinson	INCOSE 13B
Emiko Togashi	Macro-P-151, Macro-P-152
Emilia Villani	INCOSE 9A, Space-PO-31, VR 2-O-1
Emilie Le Guen	Sustain 1-O-5
Emilie Perreau	INCOSE 3
Emilio Rossi	Design 4-O-1, Sustain 2-O-3, SYM 28-O-3, SYM 28-O-4
Emilio Trigili	Robot 1-S-3
Emily Seifert	Ant 1-S-4
Emmanuel Gyenin	SYM 15-S-5
Emmanuel Souffrin	SYM 5-O-3
Emmanuelle Frelin	Safety 6-S-6
ENNIO BILANCINI	Workshop 5
Enrique Alvarez	Workshop 4
Enrique De La Vega	Mus 6-S-3
Enrique J. De La Vega Bustillos	Ant-PO-6
Enrique Javier De La Vega Bustillos	Manu 3-S-3, Manu-P-43
Enrique Xavier De La Vega Carrillo	Mus 6-S-3
En-Tzu Liu	Visual-P-200
Enzo Raugei	Robot 1-S-3
Era Poddar	Panel Discussion 9
Eric Chung	SYM 27-S-1
Eric Hsu	INCOSE 15B
Eric Wang	ESK-JES Joint Symposium, Panel Discussion 3
Erik Brolin	DHM 2-S-3

Author	Session
Erik Prytz	Aero 1-S-3
Erin Maddix	Space-P-87
Erminia Attaianese	Design 1-O-2, Sustain 2-O-3, SYM 28-O-2, SYM 28-O-3
Ernesto Mendez	Agr 1-S-5
Errol Hoffmann	ATWAD 5-O-2
Esa-Pekka Takala	Sustain 2-O-2
Estela Perez Luque	DHM 2-S-3, DOCQ-S-2
Ester Iacono	Product 2-O-1, SYM 28-O-1, UI/UX 4-O-2
Esther Hehsun Kim	SYM 31-S-5
Ethel Gyamfi	SYM 15-S-5
Etienne Fournier	Potpourri 5-S-3
Eugenio Merino	Safety 5-O-1
Eui S. Jung	Product-P-162, Visual-P-204, Visual-P-205
Eui-Hyuk Kim	SYM 20-S-5
Euisung Kim	WWCS-P-212
Eun Ha Kim	Agr 1-S-4
Eunchae Lee	Mus 5-S-3
Eunjin Kwon	Health 1-S-5
Eunjung Oh	Transport-P-178
Eunseo Ryu	SYM 11-S-4, Workshop 6
Eunsik Kim	Mus-P-51, Mus-P-52, Mus-P-62
Eunsung Kim	SYM 26-S-2
Eva Goulois	ATWAD 4-S-5
Ezekiel Bernardo	Gender 1-S-3, Potpourri 1-O-2, Product-P-165, SYM 2-S-4, UI/UX 5-S-3, UI/UX 5-S-6, UI/UX 6-S-2, Visual 2-S-4
Ezginur Gündogmus	Health-P-25
Ezginur Gündoğmuş	Health-P-26

F

Fabian Kracke	Health 5-S-1
Fabiana França	UI/UX 8-S-3
Fabien Bernard	Aero 1-S-4
Fabien Coutarel	ATWAD 1-S-6, Build 2-S-3
Fabien Mangione	DHM 2-O-1
Fabienne Goutille	ATWAD 2-S-5, ATWAD 4-O-1, Safety 5-S-5, SYM 5-O-4, SYM 9-O-5
Fabio Lillo	Aero 1-S-4
Fabricio Andretti	Safety 1-O-4
Fadi Fathallah	Agr 1-S-3, Agr 1-S-5, SYM 16-S-1
Faizan Iftikhar	AI 4-S-6, CES-POS-P-11

Author	Session
Fan Li	Trans 5-S-4
Fanglai Yao	CES-Physical-S-1
Fanxuan Wang	UI/UX 6-S-5
Farah Elaroussi	AI 5-O-3
Farhad Abtahi	Manu 2-O-3, Mus-PO-22
Farzan Sasangohar	Panel Discussion 13, Space 1-S-1
Farzaneh Khorsandi	Agr 1-S-5
Fatemeh Abareshi	UI/UX 3-O-1
Fátima Díaz-Bambula	Safety 1-S-3
Fausto Mascia	ATWAD 2-S-6, ATWAD 6-S-2
Federica Aprigliano	Robot 1-S-3
Federica Caffaro	CTE 3-O-2
Federica Masci	Health 2-S-3, Health 2-S-5, Potpourri 5-S-6, Trans 2-S-3
Federico Fraboni	Health 2-S-5, Potpourri 2-S-3, Potpourri 5-S-1, Space-P-85
Fedra Iskandar	Product 3-S-3
Feiyu Huang	CES-Interact-S-2
Felicity Lamm	CTE 3-S-6
Felipe Goulart	Safety 5-O-1
Felix Friedrich	Design 2-S-5
Felix Glawe	SYM 26-O-4
Felix Stuerzl	VR 6-S-1
Feng Gan	Ant 1-S-6
Ferdinand Langer	Health 2-O-1
Ferenc Kudász	Build 1-S-6
Fernando C.S. Matheus	ATWAD 2-O-2
Fernando Herkrath	AI 3-S-5, Mus 4-S-3
Fida Awada	SYM 5-O-2
Fiona Trevelyan	CTE 3-S-6
Flávia da Silva Mello	WWCS 1-O-1
Flavia De Brito	Build-PO-7
Flávia Karine Leal Lacerda	Mus-PO-24, Potpourri-PO-27
Flávio Chedid Henriques	Agr 1-O-2
Flavio Santos	Kansei 1-S-4
Fleury Sylvain	Health 1-O-2
Flore Barcellini	ATWAD 3-S-6, SYM 23-S-6, SYM 24-S-2
Florentino Serranheira	Mus 8-S-4
Fnu Vithala Venkata Sai Hari Shreya	Health 5-S-3
Forlin Aguilera	Gender 2-O-3, Informal 1-O-3
Fournier Claude-Alexandre	Sustain 1-S-6

Author	Session
France Labrèche	SYM 9-S-1
Francesca de Rosa	Product 1-O-3
Francesca Rocca	Design 4-O-6
Francesca Tosi	Agi 1-O-1, Agi-PO-2, Design 4-O-3, Product 2-O-1, UI/UX 4-O-2, VR 4-O-1
Francesco Draicchio	Mus 3-O-1
Francesco Giovacchini	Robot 1-S-3
Francisco Duarte	ATWAD 2-O-1, ATWAD 2-O-4, ATWAD 2-S-6, ATWAD 3-S-4, ATWAD 6-S-2, ATWAD 6-S-4, SYM 24-O-3, SYM 24-O-4, WWCS 1-O-2
Francisco Garcia Rivera	ATWAD 5-S-5, DOCQ-S-4
Francisco José de Castro Moura Duarte	ATWAD 2-O-2, ATWAD 5-S-4, Resil 1-O-3
Francisco Lima	ATWAD 2-O-1, ATWAD 2-O-4, ATWAD 3-S-4, ATWAD 5-S-6
Francisco O. Lopez Millan	Ant-PO-6
Francois Fraysse	Ant 1-O-2
Francoise Detienne	SYM 24-S-1, WWCS 1-S-5, SYM 24-S-5, WWCS 1-S-3
François-Xavier Devetter	SYM 30-O-1
Frank Ryou	Resil-P-64
Frida Fischer	Safety-P-68
Frida Marina Fischer	Space-P-84
Frida Petters	Mus-PO-22
Friedhelm Nachreiner	VR 6-S-5
Fu Guo	CES-Biophysical-S-2, CES-COG1-S-2, CES-Transport-S-4
Fujun Zhang	CES-Physical-S-1
Fuka Kajitani	DHM-P-89
Fukuda Osamu	Robot 1-S-4
Furong Jiang and	INCOSE 7A
Fuyuan Wang	Sustain 1-S-4

G

Ga Eun Lee	SYM 26-S-2
Gabby Molloseau	Health 6-S-4
Gabin Gindro	ATWAD 1-S-6
Gabriela Freitas	UI/UX 1-O-1
Gabriela Garcia	Mus-P-46
Gabriela Pérez Potter	UI/UX 3-O-3
Gabriela Villafañez	CTE 2-O-1, VR 1-O-3
Gabriele Caragnano	Mus 8-S-5
Gabriele Frangioni	Health 2-S-5
Gabriella Hancock	CTE-P-135
Ga-Hye Jeon	VR-P-91

Author	Session
Gaia Vitrano	Mus 8-S-5, Safety-P-73
Gamkrelidze Tamari	SYM 23-S-6
Garrick N. Forman	Mus 3-S-5
Gary Allen Mirka	Keynote 7.1
Gary Mirka	Mus 2-S-1, Mus 2-S-3
Gaudart Corinne	ATWAD 1-S-2
Gayoung Kim	AI 1-S-3
Gayul Park	Mus 6-S-4
Gee Won Shin	SYM 31-S-2
Geert Wets	Trans 2-S-3
Gemma Read	AI 1-S-4
Geng-Wu Lo	Transport-P-183
Geonhee Kim	Build 1-S-4, Build 2-S-1, Kansei 3-S-1
Georges Beurier	DHM 3-S-1, Trans 5-S-1
Georgios Kapogiannis	CES-Interact-S-5
Géraldine Body	SYM 3-S-4
Geraldine Rix Lievre	Potpourri 1-S-6
Germain Poizat	SYM 22-O-1
Germán Cobo Mejía	Informal 1-O-2
Gero Laurenz Höhn	Potpourri 5-S-6
Gerrit Muller	INCOSE 15A
Gexin Guo	CES-COG1-O-1
Ghazal Rahimzadeh	VR 3-O-1
Gi Sung Yoo	Safety-P-77
Gian Andrea Giacobone	Design 3-S-3
Giannina Anais Rodas	UI/UX 5-S-3
Gilbert J Huber	Resil 1-O-4
Gillian Slade	Mus-P-63
Giorgia Chini	Mus 3-O-1
Giovanni Berselli	Mus-P-60
Giselle Merino	Safety 5-O-1
Giuseppe Mincolelli	Design 3-S-3, Design 3-S-4
Gi-Wook Kim	VR-P-90, VR-P-91
Goeun Shim	VR 3-S-3, VR 3-S-5
Gokcen Akyurek	UI/UX 9-O-1
Gonca Bumin	Health-P-25, Health-P-26
Gopal Jani	INCOSE 15B, INCOSE 15B
Gourab Kar	Design 1-S-5, Design 2-O-1, Design 2-S-3, Design 2-S-4, Health 1-O-3, Potpourri 4-S-2
Grace Gao	Mus 5-S-6

Author	Session
Grace Kennedy	IEA/ISO 3, INCOSE 1, INCOSE 12, INCOSE 18, INCOSE 9B
Grace Szeto	Mus 7-S-6
Graciela Rodriguez Vega	Ant-PO-6
Grahita Prisca Brilianti	Product 2-O-2
Grant Mawston	Mus 3-O-2
Greenan Nathalie	SYM 23-S-6
Gregory Hendricks	Agr 1-S-3
Grégory Munoz	SYM 3-S-6
Gretchen Macht	INCOSE 13B
Guan Ling Lin	Visual-P-200
Guangwu Qian	AI 2-S-5
Guido J.L. Micheli	Mus 8-S-5, Safety-P-73
Guijun Fu	CES-HMI-S-5
Guillaume Hernandez	Safety 6-S-6
Guillaume Lopez	SYM 21-S-3
Guixuan Zhang	CES-Smart Device-S-6
Gumhee Baek	SYM 23-S-5
Günter Alce	CTE 3-O-2
Günther Schuh	SYM 26-O-4
Guolong Sun	CES-Design-S-1
Gusang Kwon	SYM 7-S-4
Guy André Boy	INCOSE 11B, INCOSE 18
Gyewon Jeon	UI/UX 3-S-4
Gyogwon Koo	SYM 26-S-3
Gyu Hyun Kwon	WWCS-P-212
Gyuchan Thomas Jun	AI 3-S-4, Panel Discussion 15, Panel Discussion 15, Resil 3-S-5
Gyuhee Kim	UI/UX 7-S-6
Gyula Szabo	Build 1-S-6, Product 3-O-2
Gyu-Min Hwang	AI-P-123
Gyusun Hwang	SYM 12-S-4
Gyuyeon Son	Visual-P-205
Gyuyi Kang	SYM 31-S-3

H

Haeun Lim	Trans 1-S-3
Hailiang Wang	Panel Discussion 3, SYM 27-S-5
Haiou Yang	Mus 3-S-3
Haixin Xu	Space-P-86, Space 1-S-3, Space 1-S-5
Haiying Wang	CES-COG2-O-5

Author	Session
Haizhe Jin	CES-Design-S-4, CES-Biophysical-S-2, CES-COG1-S-2, CES-Health-S-1, CES-Health-S-5
Hajar Alnuaimi	Safety 3-S-6
Hajin Lim	SYM 31-S-5
Hakim Mecheri	SYM 8-S-6
Hamed Ghomashchi	Slips 1-O-1
Hamid Norasi	Mus-P-44
Hamidreza Mokarami	UI/UX 3-O-1, Macro 3-S-1, DOCQ-S-3
Han Gao	Ant 1-S-6
Han Jieun	VR 2-S-2
Han Kim	SYM 6-S-1
Han Li	JES-P-214
Hanbo Zou	Mus 2-S-2
Hanbyeol Choi	CES-AI-S-2
Hang-Jin Lee	VR-P-91
Han-Jeong Hwang	SYM 7-S-4
Hanjing Huang	CES-COG2-S-1
Hankyoul Kim	Kansei 2-S-2
Hanlin Xu	CES-POS-P-7
Hanna J. Barton	Macro 2-S-4, Panel Discussion 16
Hanna Vidal	UI/UX 1-S-4
Hannah Ameye Ameye	Potpourri 5-S-6
Hannah Dammers	SYM 26-O-4
Hanul Kim	VR 2-S-4
Hanyu Wang	CES-HMI-S-3
Hao Fan	Product 1-S-5, Ant 1-S-6, Mus 5-S-4, UI/UX 10-S-1
Hao Fang	Ant 1-S-6
Hao Ni	CES-POS-P-7
Haochen Feng	Robot 1-O-1
Haoming Huang	CES-HMI-S-5
Haoran Deng	SYM 14-O-2
Haosong Xu	CTE 4-S-4
Haoyu Teng	Transport-P-179
Hao-Yun Yao	CTE 3-S-3
Harald Kviecien	Build 1-S-6
Hari Iyer	DHM-P-37
Harim Kim	VR 3-S-2
Haroon Jamanzi	Space 1-S-4
Haruka Yoshida	DHM 3-S-3, Resil 3-S-6

Author	Session
Hayato Uchida	Kansei-P-38, Kansei 2-O-5
Hayoung Jung	DHM 1-S-5, DHM 2-S-4, SYM 6-S-6, SYM 14-S-5
Hazelle Erika Lee	Potpourri 1-O-2
Heather Kahle	Panel Discussion 9, Panel Discussion 11
Hee Eun Choi	Product-P-159
Hee Young Kim	Safety-P-82
Heecheon Yoo	IEA/ISO 1, AI 4-S-1, DHM 2-S-4, VR 3-S-3, VR 3-S-5, SYM 6-S-6, Health 1-S-5, SYM 14-S-5, Mus 7-S-5, DHM-P-143
Heegyu Kim	SYM 7-S-1
Heejae Lee	Product-P-159
Heejin Jeong	DHM-P-37
Heejin Kim	VR-P-207
Heejung Bang	Agr 1-S-5
Heejung Yim	Sustain 2-S-1, Potpourri 4-S-3
Heesoo Sa	UI/UX 2-S-3
Heetae Hwang	Design-P-15, Transport-P-188
Heewon Min	Transport-P-188
Helen Hughes	SYM 18-S-5
Helena ten Brink	Panel Discussion 5
Hélène Dirix	Trans 2-S-3
Hélène Sultan-Taïeb	SYM 9-S-3
Heloisa Seratiuk Flores	Mus 2-S-6
Hendrik Ludewig	UI/UX 1-S-6, UI/UX 8-S-2, UI/UX-P-193, Health 5-S-4
Hengrui Guo	CES-Aging-S-3
Henrik Enquist	SYM 8-O-5
Henrique Costa Marques	VR 1-O-2
Henrique Ribeiro Menezes	CTE 1-O-4
Hezery Harun	CTE 4-S-1
Hide Matsumoto	Slips 2-S-3, Slips 2-S-4
Hidekazu Nishimura	Kansei-P-38, INCOSE 11B
Hidenori Boutani	SYM 21-S-1
Hillevi Hemphala	Visual 1-S-2
Hiroki Takeuchi	SYM 21-S-2
Hiroshi Okumura	Robot 1-S-4
Hiroshi Shimoda	Gender 1-S-4, Kansei 2-S-3, Kansei 3-S-3, DHM-P-144
Hiroshi Watanabe	Visual 1-S-4, Visual 2-S-2
Hirotake Ishii	Gender 1-S-4, Kansei 2-S-3, Kansei 3-S-3, DHM-P-144
Hiroyasu Ujike	Visual 1-S-4, Visual 2-S-2
Hiroyuki Morikawa	Slips-P-166, VR-P-210
Hitendra Shidhapura	INCOSE 15B

Author	Session
Hojae Kim	Transport-P-93, Kansei 3-S-2
Hojeong Lee	VR 6-S-4
Hojoon Kim	Health-P-33, AI-P-123, Transport-P-188
Hokuto Matsui	JES-P-213
Hong Cheng	Robot 1-O-1
Hongbo Wang	Potpourri-PO-28
Honghong Wang	CES-Health-S-3, CES-Health-S-4
Honghua Lyu	Safety-P-82, SYM 11-S-4, SYM 14-S-4, Workshop 6
Hong-In Cheng	Mus 7-S-1, Transport-P-184
Hongku Yun	Transport-P-177
Hongtae Kim	Sustain 2-S-4
Hongwei Niu	CES-Physical-S-3
Hoon Kim	Mus 7-S-5
Hoonsang Lee	Mus 8-S-2
Hosang Lee	Mus 8-S-2
Hoseok Jung	VR 3-S-2, VR 3-S-4
Houda Kherbache	Agi 1-S-2
Houshyar Asadi	VR 3-O-1
Hoyoung Jeong	SYM 13-S-2
Hoyoung Maeng	SYM 31-S-3
Hsieh-Ching Chen	Mus-P-59
Hsin-Chang Lo	Health 6-S-5
Hsueh Yi Lai	AI 3-S-2
Hua Qin	CES-Aging-S-3
Hualin Zhang	SYM 27-S-2
Huan Xu	Safety-P-73, Mus 8-S-5
Huda Kharbeche	Health 1-S-6
Huhn Kim	Transport-P-178
Hui Chen	Product 1-S-5
Hui Xiong	CES-AI-S-6
Hui-Jun Kim	AI 1-S-5
Huiling Hu	Health-P-20
Huimin Hu	CES-HMI-S-1
Huiwen Ma	CES-HMI-S-2
Huiying Wen	ATWAD 5-O-2
Hun Kim	Safety-P-82
Hun Lee	Transport-P-186
Hung-Xin Li	Mus-P-58
Husre Gizem Akalp	Safety 7-S-5

Author	Session
Hye Won Song	Mus 5-S-3
Hye-Eun Lee	JES-P-217
Hyegjoo Choi-Rokas	SYM 1-S-1, SYM 1-S-2, SYM 1-S-3, SYM 1-O-4, SYM 6-S-3, SYM 6-S-4, SYM 6-S-5
Hyeon Sim	AI-P-123
Hyeon Uk Noh	UI/UX-P-197
Hyeonseo Kim	Kansei 3-S-2
Hyeonyeong Lee	DHM 2-S-6, VR 2-S-6
Hye-Ran Cheon	SYM 7-S-4
Hyeseon Han	SYM 17-S-4
Hyewon Seo	Mus 6-S-6, SYM 26-S-1
Hyewon Song	WWCS 1-S-4
Hyewon Yoon	UI/UX 4-S-5
Hyeyoung Han	WWCS 1-S-4
Hyochang Kim	AI 3-S-3, VR 3-S-4, Safety-P-77, Sustain 2-S-1, Potpourri 4-S-3, Workshop 7
Hyo-eun Yun	Robot 1-S-6
Hyo-Jin Ahn	VR-P-90
Hyolim Kim	UI/UX 7-S-5
Hyun K. Kim	AI 1-S-3, Kansei 3-S-5
HyunChong Kim	IEA/ISO 2
Hyundoo Jeong	SYM 19-S-2
Hyung Tae Lim	Health 6-S-3
Hyun-Gee Jei	Space 1-S-1, DOCQ-S-5
Hyungi Kim	Health 1-S-5
Hyun-Ho Shim	SYM 16-S-3, Mus 4-S-5
Hyunji Keum	SYM 16-S-3, Mus 4-S-5
Hyun-Jung Kim	SYM 12-S-3, SYM 13-S-1
Hyunki Lee	SYM 26-S-3
Hyunmin Kang	VR 3-S-2, Sustain 2-S-1, UI/UX 9-S-5, Potpourri 4-S-3, Workshop 7
Hyunsoo Kim	UI/UX 9-S-5
Hyun-soo Lee	Robot 1-S-6
Hyun-Soo Yoon	SYM 26-S-3

I

Ian Roberts	Slips 3-S-1
Ibrahim Issah	SYM 15-S-5
Ida-Märta Rhen	Manu 2-O-3
Ilaria Oberti	SYM 29-S-3, SYM 29-O-6
Ilaria Pacifico	Robot 1-S-3
Ildeberto Almeida	ATWAD 1-S-5

Author	Session
Il-pyung Park	Keynote 1
Ilsun Rhiu	VR 2-S-4
Ima Samba	Health 4-S-1
Iman Nuwayhid	SYM 5-O-2
Imen Ouaz	Mus-PO-21
In Jae Na	AI 2-S-3
Ines Rassas	Mus-PO-21
Ingo Hermanns-Truxius	SYM 8-S-1, SYM 8-S-2, SYM 8-S-3, SYM 8-S-4
Ingrid Betty	CTE-PO-10
Inju Lee	SYM 31-S-3
In-Seok Heo	UI/UX 3-S-5, UI/UX 3-S-6, Robot 1-S-6
Insoo Kim	Agr-P-1, SYM 16-S-2
Ioni Correa	Mus 4-S-3
Iris Levine	Ant 1-S-3
Irwan Syah Md Yusoff	Trans 3-S-1
Isabel Leggiero	Design 4-O-6, SYM 28-O-5
Isabela Motta	AI 1-O-1, AI 1-O-2
Isabella Tiziana Steffan	SYM 29-S-3
Isabelle Berger	SYM 9-S-4
Isabelle Feillou	SYM 9-S-4
Isabelle Lacharme	SYM 15-S-6, ATWAD 6-S-3
İsmail Ozdemir	Health-P-25
Istvan Biró	Product 3-O-2
Ivan de Souza Rehder	Space-PO-31
Ivan Garcia	INCOSE 9A
Ivan Rehder	VR 2-O-1
Ivana Salopek Čubrić	Product-P-95
Ivo Caruso	Design 1-O-2
Ivychelle Camara	Product-P-160

J

Jaakko Airaksinen	SYM 18-O-4
Jack Ogutu	Kansei-P-99
Jackie Cha	Panel Discussion 1, Health 4-S-3, Mus 8-S-3
Jacob Chen	Keynote 7.2
Jacob Gallagher	Design-P-14
Jade Samping	Gender-P-17
Jae Beum Lee	Space 1-S-4
Jae Hee Park	Agr 1-S-4

Author	Session
Jae Ho Lee	IEA/ISO 2
Jae Hoon Cha	Mus 5-S-3
Jae Sik Yang	SYM 2-S-5
Jaehong Yu	SYM 19-S-4
Jaehoo Bae	SYM 2-S-5, Safety-P-82, SYM 11-S-4, SYM 11-S-5, SYM 14-S-4, Workshop 6
Jaehun Kang	SYM 12-S-2
Jaehyun Choi	VR-P-92, Transport-P-177, VR-PO-36
Jaehyun Park	Trans 2-S-4, Trans 3-S-2, UI/UX 2-S-6, Kansei 3-S-5, Mus 5-S-5
Jaein Lee	Product 1-S-4
Jaejin Hwang	Panel Discussion 1, Safety-P-69, CTE-PO-38, Potpourri-PO-25
Jaejin Ryue	JES-P-218, JES-P-219
Jaekyu Park	Product-P-161
Jaeseong Son	AI-P-123
Jaesik Yang	Workshop 3
Jae-Soo Hong	Safety-P-83, Mus 7-S-2
Jaesun Yu	Health 1-S-5
Jaesung Park	AI-P-123
Jaeyeon Park	UI/UX 5-S-3
Jae-Yoon Jung	SYM 13-S-4
Jaeyoun You	SYM 31-S-2
Jaeyun Jeon	Kansei 3-S-1, Build 1-S-4, Build 2-S-1
Jake Abernathy	SYM 25-S-2
James McGlothlin	Workshop 1, Health-P-19, Design 3-S-5
Jamie Barrett	Space 1-S-4
Jan Dul	INCOSE 13B
Jane Lee	Workshop 6
Janggil Kim	Potpourri 3-S-3, Potpourri 3-S-4
Janina Elyse Reyes	Mus-P-53, Safety 2-S-2
Jannah Baker	SYM 25-S-1
Jan-Philipp Frenzel	Trans 3-S-5
Jansen Estrazulas	AI 3-S-5, Mus-P-50, Mus 4-S-3
Jaqueline Viana de Souza	Workshop 2
Jaramier C. Joibi	AI 2-S-6, VR-P-211
Jared Parmer	SYM 26-O-4
Jari Kaivo-Oja	Sustain 2-O-2
Jarvy Larz San Juan	Potpourri 1-O-2
Jasmine Love	Mus 2-S-4
Jasna Tompa	Potpourri 2-O-1
Jason Hochreiter	AI-P-122, CTE-P-135

Author	Session
Jason Thompson	AI 1-S-4
Jasper Johns	Panel Discussion 5, Robot 2-S-5
Javier Rivera	AI-P-122, CTE-P-135
Jay Dai	Mus 7-S-6
Jazmani Arturo Ramirez Díaz	Potpourri-P-156
Jazmin Tangsoc	Visual 2-S-4, UI/UX 5-S-3, UI/UX 5-S-6, UI/UX 6-S-2, Gender 1-S-3, Product-P-165
Jean Guyer	Resil 1-O-2
Jean Marie Aerts	Potpourri 5-S-6
Jean-François Vautier	ATWAD 1-S-4, Safety 6-S-6
Jean-Marie Aerts	Trans 2-S-3
Jeanne Carroll	SYM 10-S-1, Health 5-S-3
Jeanne Guerin	Panel Discussion 9
Jean-Paul Dautel	SYM 30-S-2
Jeewon Choi	Robot 2-S-2, Health 6-S-1
Jeffrey D. Graham	Mus 3-S-5
Jehnae Linkins	SYM 1-S-1
Jehun Lee	SYM 13-S-1
Jena Webb	SYM 9-S-1
Jenna Cristina Balasbas	SYM 2-S-2, Kansei 1-S-6
Jenna Van Win	Trans 2-S-3
Jennifer Giang	INCOSE 5A
Jennifer Knapp	SYM 1-S-1
Jennifer Webb	SYM 9-S-3
Jens Alfredson	Aero 1-S-3
Jeong Ho "Jay" Kim	Panel Discussion 1, Mus 1-S-4, Panel Discussion 4
Jeong-Bae Ko	Safety-P-83, Mus 7-S-2, Mus 8-S-2
Jeonghyun Kang	AI 4-S-3
Jeonginn Choi	JES-P-218
Jeongjin Park	ATWAD-P-3
Jeonguk Hong	UI/UX 3-S-4
Jeongyoon Ahn	VR-P-92, VR-PO-36
Jeremy Argueta	INCOSE 12
Jérémy Dupont	DHM 1-O-2
Jeremy Gabriel Uy	Potpourri 1-O-2
Jessica Hwee	DHM-P-141
Jessica McCoy	Resil 1-O-2
Jessica Pater	SYM 10-S-1, Health 5-S-3
Jessy Barré	Transport-P-169
Jesús Ortiz	Mus-P-60, Slips 1-S-3

Author	Session
Jhih-Han Hu	Mus 1-S-5
Ji Eun Song	SYM 31-S-1
Ji Hyeok Han	UI/UX 2-S-1
Ji Won Park	UI/UX 7-S-3
Ji Young Yoo	Health 6-S-3
Jia Zhou	CES-Design-S-1, CES-Transport-S-1
Jiaan Li	SYM 27-S-5
Jiachen Nie	Safety-P-72, Safety 2-S-6, CES-Physical-S-2, CES-Biophysical-S-3, CES-Biophysical-S-4, CES-Biophysical-S-5, Space 1-S-6
Jia-Chi Lin	Ant-P-130
Jiahao Zhang	CES-Health-S-1
Jia-Hua Lin	Design-P-14
Jiahui Wang	CES-COMM&SM-S-2
Jiajun Hou	UI/UX-P-195
Jiangfeng Song	CES-Biophysical-S-1
Jianing Li	CES-Health-S-1
Jianlin Liu	CES-Biophysical-S-5
Jianwei Niu	JES-P-214
Jiao Xue	CES-COMM&SM-S-4
Jiaoli Xie	CES-HMI-S-5
Jiaqi Li	INCOSE 11B
Jiaxin Zhang	SYM 27-S-2
Jiayi Nie	AI-P-124
Jiayi Su	CES-Aging-O-1, CES-Aging-O-2
Jiayin Li	CES-Biophysical-S-5
Jiaying Zou	Space-P-86, Space 1-S-3
Jia-Yuan You	Mus-P-59
Jiazhen Hu	CES-COG1-S-4
Jichen Ban	CES-Smart Device-S-1
Jie Chen	CES-Biophysical-S-4
Jie Deng	Transport-P-172
Ji-Eon Yun	VR-P-91
Jieun Han	WWCS-P-212
Ji-Eun Kim	Panel Discussion 4, DHM-P-141
Jieun Sa	UI/UX 6-S-6
Jifeng Xu	Ant 1-S-6, UI/UX 10-S-1
Jihan Lee	Trans 1-S-5
Jiho Kim	Health-P-32
Jihyeon Jo	Health-P-30

Author	Session
Jihyun Kim	UI/UX-P-194
Jill Marsteller	Health 4-S-1
Jillian Harvey	Health 6-S-4
Jim Potvin	Mus-PO-19
Jimin Liu	INCOSE 11B
Jimin Park	SYM 12-S-3
Jin Lee	Design-P-14
Jing Chen	CES-Design-S-2
Jing Li	CES-Health-S-3, CES-Health-S-4
Jing Qiu	Robot 1-O-1, CES-Physical-S-5
Jing Wen	Macro 1-S-5
Jing Wu	Sustain 1-S-4
Jing Yang	CES-Smart Device-S-4
Jing Zhang	CES-Physical-S-1, CES-Biophysical-S-5
Jinge Xuan	Visual-P-203
Jingfei Wang	CES-Physical-S-3
Jingjing Cao	CES-Transport-S-1
Jinglu Fan	AI 5-O-1
Jingy Zhang	CES-POS-P-133
Jingyuan Tian	Ant 1-S-6
Jingyuan Zhang	CES-Transport-S-2
Jingyue Zheng	Transport-P-172
Jinhae Yae	Transport-P-186
Jinhong Kim	Workshop 6
Jinhyouk Shin	UI/UX 7-S-5
Jin-Hyuck Park	VR 1-S-4
Jinhyun Kim	SYM 11-S-1
Jinju Kim	UI/UX-P-192
Jinlei Shi	Product 1-S-5, Ant 1-S-6
Jinseob Kim	Workshop 6
Jinsoo Rhu	VR-P-209
Jinsu Eun	SYM 31-S-5
Jinwon Lee	Safety-P-69
Jin-Woo Jeong	UI/UX-P-199
Jinwoo Oh	Health 4-S-4
Jinwoo Ryu	AI-P-121
Jinyoung Han	UI/UX 5-S-4
Jiratikarn Rammasang	Safety-P-81
Jisu Ryou	SYM 31-S-1

Author	Session
Jitong Zhang	CES-Smart Device-S-3
Jiyeon Ha	Safety-P-69
Jiyeon Kang	Health-P-33
Jiyeon Shin	SYM 2-S-5, SYM 11-S-4, SYM 11-S-5
Jiyoon Lee	VR 3-S-4
Jiyoung Kwahk	AI 5-O-4
Jiyoung Park	UI/UX-P-194
Joanna de Athayde	Safety 5-O-1
Joanne Crawford	CTE 3-S-6
Joanne Harbluk	Trans 4-S-6
João Guilherme Fowler	Aero 1-O-1
João Marcos Bittencourt	ATWAD 2-O-3, SYM 24-O-3, WWCS 1-O-1, WWCS 1-O-2
João Victor Razzera	CTE-PO-9
Joaquin Garcia Dihigo	Potpourri-PO-26
Jochen Deuse	Manu 2-S-2
Jochen Eckardt	IEA/ISO 3, Keynote 2.2
Jodi Oakman	Agi 1-S-3, Mus 2-S-4, Mus 3-S-4, Macro 3-S-3
Joel Cort	Mus-P-63, Mus 3-S-6
Joel Spratt	SYM 1-S-1
Joeun Lee	SYM 14-S-1
Johan Sandblad	DHM-P-140
Johan Verbraecken	Trans 2-S-3
Johanna Westbrook	SYM 25-S-1
John Adams	Slips 3-S-2
John James Jovellano	SYM 2-S-4
John Smallwood	Build 1-S-3
John Zimmerman	Keynote 4.2
Johnica Chua	Potpourri 1-O-2
Jonas Kreiner	VR 5-S-1
Jonas Shultz	Panel Discussion 15, Build 2-S-2
Jonathan Davy	Panel Discussion 13, CTE 4-S-6, Transport-P-189, Aero 1-S-5
Jonathan Earthy	IEA/ISO 3, Keynote 3.1
Jonathan Handler	Health 3-S-6
Jonathan Kiessling	Panel Discussion 5
Jonathan Lagrimino	Trans 4-O-1
Jonathan M. Kiessling	Design 2-S-2
Jonathan Osorio-Vasco	Manu 1-O-4, Agr-PO-4, Mus-PO-18
Jong Hyun Kim	Health-P-29
Jongbae Park	DHM 2-S-4, VR 3-S-3, VR 3-S-5, Mus 7-S-5, DHM-P-143

Author	Session
Jonghan Kim	UI/UX 4-S-4
Jongsoo Lee	Potpourri 3-S-3, Potpourri 3-S-4
Jongwook Lim	Workshop 6
Joong Hee Lee	SYM 14-S-4
Joong Seek Lee	SYM 31-S-1
Joongsoo Kim	Product 1-S-2, Potpourri 5-S-4
Joonhwan Lee	SYM 31-S-5
Joowhi Rho	UI/UX 6-S-1
Jooyoung Hong	Kansei 3-S-1, Build 1-S-4, Build 2-S-1
Jörg Miehling	DHM 1-S-3, Design 1-S-3
Jörgen Eklund	Manu 2-O-3
Jose Antonio Conde	UI/UX 6-S-2
Jose Orlando Gomes	Informal 1-O-2, Opening Ceremony, Resil 1-O-4
Josefine Charlotte Emmel	Manu 3-S-2
Joseph Parham	SYM 1-S-1, SYM 1-S-2
Joseph-Omer Dyer	SYM 9-S-1
Josh Adrian Dycaico	UI/UX 5-S-3
Joshua Mosher	CTE-PO-38
Joshua Ordinario	UI/UX 1-S-4
Josue Obregon	SYM 13-S-4
Juan Carlos Velasquez	Agr-P-101, Agr-P-2, ATWAD 4-S-6, Potpourri 3-O-1
Juan Carlos Velasquez Valencia	Informal 1-O-2, Macro 1-O-1
Juan Lazaro Acosta Prieto	Potpourri-PO-26
Juan Luis Hernández-Arellano	Manu 1-O-4
Juan Sebastián Jaén Posada	Health-PO-13
Judith van Remmen	Design 1-S-3
Juhee Kim	VR-P-207
Juhyeon Kim	AI-P-123, Transport-P-188
Juhyun Eune	AI 2-S-6, SYM 31-O-4
Julia Beatrice Marie Maquinto	CTE 1-O-2
Julia Bringman	SYM 23-O-3
Júlia Buttel	UI/UX 1-O-1
Julia Gritzbach	Trans 3-O-4
Julian Perelman	Mus 8-S-4
Julie Lassalle	ATWAD 4-O-1, ATWAD 5-O-1
Julien Guibourdenche	CTE 2-S-4
Julio Cesar Bispo Neves	Resil 1-O-4
Júlio César Neves	CTE 1-O-4, CTE 1-O-5
Julio César Ramos Rodríguez	Sustain 1-O-2

Author	Session
Julio Cezar de Alvarenga Pires	Mus 1-O-1, Product 4-O-1
Julius Fobil	SYM 15-S-1
Jun Beom Lee	AI 2-S-3
Jun Hamaguchi	Health-P-28, Health 6-S-2
Jun Ho Kim	AI 2-S-3
Jun Hyung Lee	Visual-P-204
Jun Jie Deng	Transport-P-184
Jun Tan	CES-Smart Device-S-4
Juneyoung Park	AI 2-S-2, Transport-P-93, Kansei 3-S-2, Safety 7-S-3
Junfeng Peng	DHM 3-S-1
Junfeng Wang	CES-AI-S-6
Jung Chan Lee	Health 6-S-3
Jung Hwan Kim	Transport-P-98
Jung Hyup Kim	VR 1-O-1
Jung Sik Lee	Opening Ceremony
Jung Yeon Park	SYM 14-S-4
Jungho Lee	JES-P-218, JES-P-219
Junghoon Shin	UI/UX 6-S-3
Junghyun Cho	Workshop 3
Jungki Kim	Space 1-S-2
Jungmin Ryu	VR 1-S-4, VR 2-S-6
Jung-Wan Koo	JES-P-217
Jungwan Ryu	UI/UX 7-S-5
Jungyeon Park	SYM 2-S-5, SYM 11-S-4, SYM 11-S-5
Jungyoon Moon	SYM 19-S-1, SYM 20-S-2
Junhee Choi	Health 6-S-3
Jun-hee Han	SYM 12-S-2
Junhui Huang	CES-Biophysical-S-1
Junhyuk Lee	UI/UX 4-S-6
Junjie Deng	Mus 7-S-1
Junlin Wu	CES-COMM&SM-S-1
Jun-Ming Lu	UI/UX 2-S-2
Junnan Zhou	CES-COG1-S-2
Junseong Lee	Product 1-S-4
Junseong Park	Kansei 2-S-2
Junsheng Zhou	CES-Biophysical-S-4
Junwoo Kim	SYM 19-S-1
Junyoung Kim	Safety 5-S-4
Junzhe Deng	CES-Design-S-7

Author	Session
Jürgen Adamy	Trans 3-S-5
Juseong Kim	UI/UX 6-S-6, UI/UX 9-S-5
Justine Bless Costales	UI/UX 8-O-1
Justine M.Y. Chim	Mus 2-S-5
Juyeon Park	VR-P-211

K

K. Blake Mitchell	SYM 1-S-2, SYM 1-O-4, SYM 6-S-3, SYM 6-S-4, SYM 6-S-5
K. Han Kim	SYM 6-S-2, SYM 6-S-3, SYM 6-S-4, SYM 6-S-5
Kadriye Burcu Ongen Bilir	Safety 7-S-5
Kaellen Scantbelruy	Mus-P-50, AI 3-S-5
Kahina Amokrane-Ferka	INCOSE 2, INCOSE 3, INCOSE 4, SYM 23-S-1
Kai Heinrich	SYM 8-S-2, SYM 8-S-3, SYM 8-S-4
Kai Huang	CES-POS-P-10, CES-Design-S-3
Kai Way Li	VR 6-S-3
Kaitlyn Dallas	EC 0 - Student Award
Kaitlyn L. Hale-Lopez	Health 3-S-6
Kanako Kamishita	Kansei-P-39
Kang Li	AI 2-S-5
Kang-Hung Liu	Trans 4-S-4, Ant 1-S-5
Kangwon Kim	DHM 2-S-6
Kanyamon Achariyaboonyong	Manu 2-S-4
Kapil Chalil Madathil	Health 6-S-4
Karam Lim	SYM 31-O-4
Karen Bredenkamp	Product 2-S-4, Product 4-S-4
Karen Lange Morales	EC 2, Workshop 8
Karen Messing	SYM 30-S-2, SYM 30-S-4
Karen Sagun	SYM 2-S-4
Kari Reijula	SYM 18-O-4
Karin Andersson	Mus-PO-22
Karin Rizky	JES-P-215
Karina Jorritsma	INCOSE 12
Karla Lucero	Mus 6-S-3
Karla Patricia Lucero Duarte	Manu-P-43, Manu 3-S-3
Karuppanasamy Kalaiselvi	Potpourri-P-155
Kassim Abdullah	Safety 3-S-6
Kate Kujawa	Product 4-S-4
Kate McCredie	Mus 2-S-4, Mus 3-S-4
Kate Posluszny	Mus-P-13

Author	Session
Katharina Dassel	SYM 23-O-4
Katharina Hoelzle	Macro 1-O-3
Katherine Plant	Potpourri 5-S-5
Kathleen L. Mosier	EC 0 - Student Award
Kathleen Lacy	VR 3-O-1
Kathleen Tejano	Block-P-132
Kathryn Woodcock	Panel Discussion 13
Katie Parnell	Potpourri 5-S-5
Katrina A Lambert	Agi 1-S-3
Katrina Hosszu	INCOSE 12
Katsiaryna Absekava	Health 2-O-2
Kayoko Kurita	SYM 21-S-4
Kazuhiro Kurihara	DHM-P-142
Kazuki Hiranai	Mus 4-S-4
Kazuma Ishimatsu	Agi-P-126
Kazumitsu Shinohara	Agi-P-126
Kazuto Hashimoto	Kansei 2-S-3
Ke Xu	AI-P-124
Ke Zhang	CES-POS-P-7
Kei Masani	Slips 1-O-2
Kei Shibata	Slips 1-S-6
Keisuke Kudo	VR 6-S-4
Keisuke Takeuchi	DHM-P-144
Keith Palmer	Slips 3-S-1
Keito Okuda	Potpourri 4-S-4
Kelly R Johnstone	Potpourri 1-S-5
Ken Catchpole	Health-P-27, Panel Discussion 14, Resil 3-S-4, SYM 25-S-2, Panel Discussion 15
Ken Nah	UI/UX-P-192
Ken Nakatsuka	Macro-P-146
Ken Potts	Resil 1-O-2
Ken Sagawa	Visual 1-S-4, Visual 2-S-2, SYM 29-S-4
Keng-Wen Hu	Product 2-O-3
Kenneth Ritchey	SYM 1-S-1
Kentaro Inaba	Macro-P-145, Macro-P-151, Macro-P-152
Kentaro Kotani	Potpourri 4-S-4, SYM 21-S-5, JES-P-213
Kento Mera	Product 1-S-6
Keran Wang	CES-HMI-S-2
Kerstin Nilsson	Agi-P-125
Kevin Guelle	Transport-PO-33

Author	Session
Kevin Milne	Gender-P-17
Kexin Cheng	CES-COG1-S-5
Keyong Zhu	Space 1-S-5
Khoirul Muslim	Product 3-S-3, Build 1-S-5
Kholeen Claire Santos	Safety 6-S-5
Kicheol Pak	Mus 5-S-3, UI/UX 9-S-5, UI/UX-P-192, UI/UX 6-S-6, WWCS 1-S-4
Kiechan Namkung	UI/UX 6-S-3, UI/UX 10-S-2
Kihun Lee	SYM 31-S-1
Kijung Park	SYM 19-S-1, SYM 20-S-2
Kikwang Lee	JES-P-218, JES-P-219
Kim Gokmi	SYM 4-S-5
Kimi Ueda	Gender 1-S-4, Kansei 2-S-3, Kansei 3-S-3, DHM-P-144
Kimin Kwon	Kansei-P-40, Kansei 2-S-2
Kine Reegård	Potpourri 1-S-4, INCOSE 5B
Kira Hansen	Agr 1-S-3
Kiruthika Appavu	Kansei-P-42
Kitae Hwang	DHM 2-S-6, VR 1-S-4, VR 2-S-6
Kiwon Park	SYM 19-S-1, SYM 19-S-3, SYM 19-S-4
Kiyoko Yokoyama	Safety-P-74
Klaus Bengler	Robot-P-65, Robot-P-96, Safety-P-71, SYM 26-S-7, Transport-P-170, Transport-P-171
Klerisson Lucas Freitas Martins	Potpourri-PO-27
Klint Allen Mariñas	Gender 1-S-3, Safety 6-S-5
Kohei Nonose	DHM 3-S-3, Resil 3-S-6
Koichi Murata	SYM 21-O-6
Konstantin Wechsler	SYM 8-S-1
Koon Ho Rha	Keynote 3.2
Kosuke Morinaga	Mus 2-S-6
Kotaro Ryu	SYM 21-O-6
Krishna N Dewangan	Safety 5-S-3
Krishna Sahithi Karur	UI/UX 3-S-6
Krishna Shai Azurin	Safety 2-S-3
Kristel Ann Catiis	CTE 1-O-2
Kristian Stanceski	SYM 25-S-1
Kristin Falk	INCOSE 15A
Krittapas Boonpasart	Robot 1-O-2
Krsmanovic Bozica	Sustain 1-S-6
Kuan Zhang	UI/UX 2-S-4
Kuo-Wei Su	UI/UX 1-S-3
Kurtis Gurley	Agr 1-S-3

Author	Session
Kushal Dave	AI 3-O-1
Ku-Yuan Lee	JES-P-221
Kwan S. Lee	ESK-JES Joint Symposium
Kwang Tae Jung	Health-P-29, Kansei-P-41
Kwangwon Lee	SYM 31-S-5
Kwanmyung Kim	Product 1-S-2, Potpourri 5-S-4
Kyeong-Hee Choi	Safety-P-83, Mus 7-S-2, Mus 8-S-2
Kyeongju Kwon	Safety 7-S-3
Kylen Lawless	Space-P-87
Kyoungyong Lee	Kansei 1-O-2
Kyu Hyoung Cho	Mus 5-S-3, VR 3-S-4, UI/UX 9-S-5
Kyu Wang Kim	SYM 14-S-6
Kyudong Park	Design-P-15, Health-P-33, AI-P-123, Transport-P-188
Kyung Hoon Kim	UI/UX-P-198
Kyung Min Seo	AI 2-S-3
Kyungsik Choi	SYM 12-S-2
Kyungsu Kim	SYM 16-S-2
Kyung-Sun Lee	Safety-P-69
Kyungwoo Kwon	UI/UX 6-S-3
Kyutae Park	SYM 13-S-3

L

Lahcene Bouabdellah	Agi 1-S-2, Health 1-S-6
Laís Bubach Carvalho Simao	ATWAD 5-S-4
Lamberto Vázquez	Manu 2-S-5
Landry Aurélie	SYM 23-S-2
Lan-Ling Huang	UI/UX-P-100
Larissa Maksi	INCOSE 15B
Larissa Umbelino	Design 1-O-1
Lars Hanson	DHM-P-140, Manu 2-O-3
Lars Kooijman	VR 3-O-1
Laura Elis Aguero Reis	Gender-PO-11, Health-PO-14, Safety-PO-30
Lauren Reining	SYM 10-S-1, Health 5-S-3
Lauren Simmons	Health 6-S-4
Laurent Claudon	Robot 2-S-3
Laurent Dehouck	ATWAD 1-S-4
Laurent Forestier	DHM 1-O-2
Laurent Guillet	ATWAD 5-O-1
Lauriane Roger	SYM 22-S-3

Author	Session
Laurie-Anna Dubois	SYM 3-S-5
Lea Saad	SYM 5-O-2
Leah Thomas-Olson	Health 3-O-3
Leanne Jessica Co	SYM 2-S-2, Kansei 1-S-6
Lee Taehee	VR 2-S-2
Leehee Kim	Workshop 6
Lefay Galaad	Macro-P-97
Lehan Chen	Transport-P-179
Lei Luo	UI/UX 5-S-1, UI/UX-P-195, UI/UX-P-196
Lei Wang	INCOSE 7A
Leif Oppermann	AI 5-O-3
Leïla Boudra	ATWAD 4-O-1
Lena Nguyen	Agr 1-S-3
Leon Lindner	Manu 2-S-2
Lequn Chen	SYM 20-S-1
Letícia Mattos	ATWAD 2-S-6, ATWAD 6-S-2, ATWAD 6-S-4
Leyan Xing	CES-COMM&SM-S-4
Leyi Hong	CES-HMI-S-2
Li Ding	Safety-P-72, Safety 2-S-6, CES-Physical-S-1, CES-Physical-S-2, CES-Biophysical-S-1, CES-Biophysical-S-3, CES-Biophysical-S-4, CES-Biophysical-S-5, Space 1-S-6
Li Jiaying	Agi-P-128
Lian Liu	CES-Aging-S-6, CES-Transport-S-5
Liang Ma	Kansei 3-S-4
Liang Zhang	ATWAD-P-4, INCOSE 4
Libin Yuan	VR 4-O-1, Design 4-O-3
Lichen Wang	AI 5-S-5
Liesbet Vranken	Potpourri 5-S-6
Lihao Xue	Safety-P-72, Safety 2-S-6, CES-Physical-S-2
Lihua He	CES-Health-S-2, CES-Health-S-7
Lihui Zhang	CES-Health-S-3, CES-Health-S-4
Lijing Wang	Space-P-86, Space 1-S-3, Space 1-S-5
Lijun Jiang	CES-Aging-O-1, CES-Aging-O-2
Lileth Narváez	Health 3-O-1
Lili Dong	UI/UX 4-S-3
Lilian Anabel Becerra de Oliveira	Mus-PO-24, Potpourri-PO-27
Liliana Cunha	Trans 2-O-2, ATWAD 4-O-2, Gender 1-O-1, SYM 22-S-4
Lilis Surienty	Safety 6-S-4
Lin Ding	CES-COG2-S-4

Author	Session
Lin Jiang	Design 3-S-2
Lin Wang	CES-AI-S-2, CES-COG2-O-5, CES-COMM&SM-O-3
Lin Yi-Cheng	Product 3-S-6
Lina Fakih	SYM 5-O-2
Linda Desimone	SYM 1-S-2
Linda Hirsch	AI 5-O-3
Lindsey Evenson	Resil 1-O-2
Ling Li	SYM 25-S-1
Lingda Ron	CES-Smart Device-S-3
Linghua Ran	CES-HMI-S-1
Lingli Hu	CES-Health-S-4
Linh Vu	SYM 6-S-1
Linhao Fang	SYM 18-S-5
Linhui Sun	AI 5-O-1
Linsey Griffin	Product 1-O-1, Ant 1-O-1, Ant 1-S-4
Li-Ping Tseng	Health-P-23
Lisa Brooks	Informal 1-S-4
Lisa Denninger	Trans 5-S-1
Lisa Lim	Resil 1-O-2
Liu Chang	CES-COG2-O-5
Liwen Bi	CES-Physical-S-1
Liwen Gu	Mus 8-O-1
Liwen Liu	Health-P-34, Health-P-35, Mus-P-55, Mus-P-57
Liyuan Liu	CES-Biophysical-S-2
Liyun Yang	Manu 2-O-3
Liz Ashby	CTE 3-S-6
Lizhi Lyu	Potpourri-PO-28
Loïc Caroux	Trans 3-S-6, UI/UX 7-S-4
Long Liu	CES-Design-S-2, CES-Design-S-6, Mus 8-O-1
Longao Yang	CES-Health-S-2, CES-Health-S-7
Lorelie Grepo	CTE 2-S-3
Lorenz Müller	UI/UX 1-S-6, Health 2-S-4, UI/UX 8-S-2, UI/UX-P-193, Health 5-S-4
Lorenzo Fiori	Mus 3-O-1
Lorenzo Grazi	Robot 1-S-3
Lorenzo Rapetti	Potpourri-P-158
Lori Basham	SYM 1-S-1
Lorrys Berthon	Aero 1-S-4
Lotta Löfqvist	SYM 8-O-5
Lotte Hallez	Potpourri 5-S-6

Author	Session
Louis Galey	Sustain 1-O-5, SYM 30-O-1
Lu Peng	VR 6-S-3
Lu Wang	Kansei-P-37
Luca Boccadutri	CTE 3-O-2
Luca Gualtieri	Potpourri 2-S-3, Potpourri 5-S-1
Luca Kling	Sustain 1-O-3
Luca Pietrantoni	Space-P-85, Potpourri 5-S-1
Lucas Alves Silva	Potpourri-PO-27
Lucas Farah	ATWAD-P-5, ATWAD 3-S-5
Lucas Schöffer	VR 6-S-1
Lucia Vigoroso	CTE 3-O-2
Luciana Contrera	Gender-PO-11, Health-PO-14, Safety-PO-30
Luciana Triani Dewi	Potpourri 2-S-5
Luciano Do Valle Garotti	Mus 1-O-1, Product 4-O-1, ATWAD 5-S-3
Lucy Mara Baú	CTE 2-S-6, Potpourri 2-S-6
Ludovic Tuduri	ATWAD 6-O-1
Luisa Vervier	SYM 26-O-4, Manu 3-S-4
Luiz Bueno da Silva	Visual-PO-34
Luiz da Silva	Build-PO-7
Luiza dos Santos	Resil 2-S-4
Lukas Grabietz	DHM 1-S-3
Luke Anthony Fiorini	Mus 4-S-6
Lulu Wang	CES-COG2-S-3
Lusha Zhu	VR 4-S-6, Agi-P-128
Lutz Fischer	Trans 3-O-4
Lynda Enos	Health-P-19
Lyu Honghua	SYM 11-S-5

M

M. Fehmi Capanoglu	Mus-P-47, Mus-P-48, Mus-P-49
M. Susan Hallbeck	Mus-P-44
Ma Janice Gumasing	Mus 5-O-1, Mus 5-O-2, Safety 5-S-2
Ma. Jessica Patalud	Visual 2-S-4
Maaliyah Bowden	Space 1-S-4
Macario Cordel	UI/UX 8-S-6
Maciej Zdrodowski	Manu 2-O-3
Macky Kato	Slips-P-166
Madison Dave	SYM 3-S-5
Magali Prost	CTE 2-S-4

Author	Session
Maggie Graf	EC 1, Panel Discussion 11
Maida Dela Cueva	Product-P-160
Majid Afshar	Macro 2-S-4
Mako Ono	Resil 2-S-2
Makoto Takahashi	Panel Discussion 2, Panel Discussion 10
Malin Eklund	DHM 1-S-4
Manabu Nakata	Macro-P-148
Manida Swangnetr Neubert	Mus 6-S-1, Manu 2-S-4
Manjunath Vhatkar	DHM 1-O-1
Manoela Lahoz	IEA/ISO 3
Manon Pierdet	ATWAD 6-O-1
Manseo Kim	UI/UX 4-S-4
Manu Sathyarajan Joseph	DHM-P-140
Manuel Martorell-González	AI-PO-1
Manuela Quaresma	AI 1-O-1, AI 1-O-2, Trans 1-O-1, UI/UX 1-O-1, UI/UX 1-O-2, Gender 2-O-2
Mao-Jiun J. Wang	Macro 2-S-2, Product-P-163
Maral Babapour Chafi	VR 4-S-4, Potpourri 4-S-5
Marc Lassagne	ATWAD 1-S-4
Marcela Silva	Informal 1-O-1
Marcelo Costa	Safety 1-O-4
Marcelo Igor Lourenço de Souza	ATWAD 5-S-4
Marc-Eric Bobillier Chaumon	ATWAD 1-S-2
Marcia Fajer	Safety-P-68, Space-P-84
Marco De Angelis	Potpourri 2-S-3
Marco Peña Jimenez	Sustain 1-O-5
Marco Pizzio	SYM 29-S-3
Marcos Vinícius Do Espírito Santo	Mus 1-O-1, Product 4-O-1
Marcus Vinicius de Paula	Mus 1-O-1, Product 4-O-1
Marcus Yung	Ant-PO-5
Margaret Graf	EC 4
Margaret Graham	Safety-P-67
Margaret M Cook	Potpourri 1-S-5
Maria Antónia Cadilhe	SYM 22-S-4
Maria Camila Velásquez Manco	Manu-PO-16
Maria Cecilia Bruzi	Sustain 1-O-3
Maria Cecilia Leite de Moraes	Mus-PO-24
Maria do Carmo Baracho Alencar	Mus 8-S-4
Maria Hirvonen	SYM 18-O-4
Maria Luiza Fonseca	ATWAD 6-S-4

Author	Session
Maria Mikaela Arriola	UI/UX 1-S-5
Maria Moran	SYM 25-S-1
María Ramos	Informal 1-O-3
Maria Sol Perez Toralla	ATWAD 4-O-3
Maria Spampinato	Health 6-S-4
Maria Stahl	Health 5-S-5
Mariagrazia Lourdes Monaco	Health 2-O-2
Mariana M. Pasa	CTE-PO-8
Mariana Martins	ATWAD-P-5, ATWAD 3-S-5
Mariana Menezes O. Sousa	UI/UX 1-O-2
Marianne Lobederio	Sustain 1-O-1
Maribel Garzón Mejía	Macro 1-O-1
Marie A Hayden	Mus-P-54
Marie Chizallet	Sustain 1-O-5
Marie Hanna	Health 4-S-1
Marie Laberg	SYM 9-S-3, SYM 9-S-1, SYM 9-S-2, SYM 9-S-4, SYM 22-S-2
Marie Stracke	SYM 18-S-1
Marie Ward	Panel Discussion 14
Marie-Pierre Poulossier	ATWAD 1-S-6
Marijke Melles	UI/UX 6-S-4, Resil 3-S-3
Marina Heiden	Visual 1-S-2
Marino Menozzi	Safety 3-O-2
Mario Cesar Vidal	CTE 1-O-4
Mário Sobral	Mus-P-50
Mario Sobral Júnior	AI 3-S-5
Mario Vidal	Resil 2-S-4
Marion Albert	Agr 1-O-1
Marion Karppi	CTE-P-137
Mark A. Johnson	UI/UX 8-S-5
Mark Boocock	Mus 3-O-2
Mark C. Schall	Mus-P-47, Mus-P-48, Mus-P-49
Mark Chattington	Potpourri 5-S-5
Mark Griffin	INCOSE 12
Mark Hall	Space-P-85
Mark Schall	Panel Discussion 6
Marta Santos	Macro 1-O-2, SYM 22-S-4
Martha Patricia Caro Gutierrez	CTE 4-S-2
Martina Ziefle	SYM 26-O-4
Mary Bian	Health 6-S-4

Author	Session
Mary Gale Soan	Block-P-132
Maryam Alhefeiti	Safety 3-S-6
Masaaki Mochimaru	IEA/ISO 1
Masafumi Furuta	SYM 21-O-6
Masahiro Tanaka	Potpourri 3-S-5
Masaki Tomosada	Slips 2-S-3, Slips 2-S-4
Masako Toriya	Kansei-P-38
Masanari Asano	Slips-P-167
Masashi Naoe	Robot 2-S-1
Masataka Ohashi	Safety 7-S-6
Masato Takanokura	UI/UX 5-S-1, UI/UX-P-195, UI/UX-P-196
Masfarita Mustaffa	Macro 2-S-1, Safety 4-S-6
Massimo Di Nicolantonio	Design 4-O-4
Mateus Abraçado	ATWAD-P-5, ATWAD 3-S-2, ATWAD 3-S-4
Mathias Siebenbürger	Safety-P-71
Mathilde Brossard	Sustain 1-O-5
Matic Breznik	Potpourri 2-O-1
Matteo Manzardo	Potpourri 5-S-1
Matthew Davis	SYM 18-S-5
Matthew J. Harris	Workshop 2
Matthew Reed	DHM 1-S-5, SYM 1-S-5
Matthias Wolf	Manu 2-S-1
Mattia Pistolesi	Agi 1-O-1, UI/UX 4-O-1, Health 2-S-3, Health 2-S-5, Agi-PO-2
Mauro Matias	Safety-P-68
Max Gallinat	VR 5-S-1
Max Nijhuis	Product 4-S-5
Maxence Denu	DHM 2-O-1
Maxie Lutze	SYM 23-O-4
Maximilian Janus Pätzold	Manu 3-S-2
Maximilian Kehmann	CTE 4-S-3, Health 5-S-1
May Jorella Lazaro	SYM 14-S-3
Mayank Tiwari	AI 3-O-1
Mayuko Takagi	ATWAD 1-S-3
Mayumi Nishikubo	Health-P-36, Mus-P-45
Megan E. Salwei	Panel Discussion 16
Megumi Kondo	Kansei-P-39
Mei-Chen Yang	Health 6-S-5
Mei-Hsiang Chen	UI/UX-P-100
Mélanie Lefrançois	SYM 30-S-2, SYM 30-S-4

Author	Session
Melina Forooraghi	Potpourri 4-S-5
Melissa Baysari	UI/UX 5-S-5, Panel Discussion 14, Workshop 5, Health 2-S-6, SYM 25-S-1, Panel Discussion 16
Melissa Graham	Agi 1-S-3
Menekse Barim	Panel Discussion 7, Workshop 1
Menekse Salar Barim	Mus-P-47, Mus-P-48, Mus-P-49, Mus-P-54
Meng Fai Ying	Safety 7-O-1
Meng Li	JES-P-216
Meng Zhang	CTE-P-138
Meng Zhou	CES-GEN-P-6, CES-Transport-S-6
Mengchen Tang	CES-Physical-S-1
Mengcheng Wang	Product 1-S-5, Robot-P-66, Safety-P-79, Ant 1-S-6, Mus 5-S-4, UI/UX 10-S-1
Mengfan Wang	CES-HMI-S-4
Mengli Yu	CES-Interact-S-4, CES-COMM&SM-S-2
Mengqi Ding	ATWAD 5-O-2
Mengxin Yin	CES-Biophysical-S-1
Merlin Teodosia Suarez	UI/UX 8-S-6
Merve Mamaci	Safety 7-S-5
Meshach Phillips	Resil 1-O-2, Health 3-O-5
Mestanza Tuesta Mirtha	Potpourri 1-S-6
Mi Hong Lim	JES-P-220
Mia Bäcklin	Panel Discussion 9
Miao Lu	DHM 3-S-2
Mica Endsley	INCOSE 13B
Michael Baker	SYM 24-S-1, WWCS 1-S-5
Michael Jonathan Silva de Vasconcelos	Visual-PO-34
Michael McCormick	Space 1-S-4
Michael W.R. Holmes	Mus 3-S-5
Michael Watterworth	Panel Discussion 1, Mus-P-63, Mus 3-S-6
Michael Young	Gender 1-S-3, Safety 6-S-5
Michelle Cariño-Adiwang	Mus-PO-20
Michelle Drouin	SYM 10-S-1, Health 5-S-3
Michelle M. Robertson	INCOSE 13B
Michelle Robertson	Design-P-14, INCOSE 1, INCOSE 18
Mieko Ohsuga	SYM 21-S-1, SYM 21-S-2
Mika Morishima	Visual-PO-35
Mikael Forsman	DHM-P-140, Manu 2-O-3, Mus-PO-22
Mike Fray	Health-P-22, Panel Discussion 15
Milena Espoz	Mus-P-46

Author	Session
Min Chul Cha	AI 3-S-3, Workshop 7
Min Joo Kim	VR 4-S-2, Safety 3-S-5
Min K. Chung	ESK-JES Joint Symposium
Min Li	CES-Design-S-7
Min Zhang	Sustain 1-S-4, Macro 3-S-2
Mina Mounir Abdelmessih Shehata	Potpourri 5-S-6
Mina Salehi Sedeh	Mus 1-S-4
Mindy Flanagan	SYM 10-S-1, Health 5-S-3
Ming-I Lin	Transport-P-174
Mingi Shim	VR-P-207
Ming-Lun Lu	Panel Discussion 7, Workshop 1, Mus-P-54, Mus 3-S-3
Mingqian Gao	INCOSE 7A
Mingxi Shi	Kansei 1-O-2
Mingyang Guo	CES-Transport-S-2
Mingyu Jeong	SYM 26-S-2
Minh Dang Trinh	SYM 12-S-2
Minhui Yuan	CES-COG2-S-4
Minjae Kim	VR 3-S-3, Mus 7-S-5
Minji Lee	SYM 16-S-2
Min-Ji Seong	VR-P-91
Minji Yu	Product 1-O-1, Ant 1-O-1
Minjoon Sohn	Visual 2-S-1, Visual 2-S-3, VR 2-S-6
Minjun Kim	UI/UX 3-S-6
Minkyu Ahn	SYM 7-S-3
Minna Lahti	CTE-P-137
Minra Choi	UI/UX-P-191
Min-Rong Xu	UI/UX 1-S-3
Min-seong Gwon	Robot 1-S-6
Min-Sun Kim	VR-P-90
Mintae Seo	SYM 16-S-2
Min-Tae Seo	Agr-P-1, SYM 16-S-3, Mus 4-S-5
Mintak han	Workshop 6
Minwoo Cho	Transport-P-185
Mira Gruber	CTE-P-135
Miriam Stuckert	UI/UX-P-193
Misako Yamagishi	Transport-P-173
Misol Kim	UI/UX 7-S-5
Mitchell Burger	Health 2-S-6
Miwa Nakanishi	Product 1-S-6, Health-P-28, ATWAD 1-S-3, Resil 2-S-2, Resil 2-S-3, Health 6-S-2

Author	Session
Mizuki Nakajima	Design-P-12, Slips-P-166
Moacyr Cardoso-júnior	VR 1-O-2
Moacyr M. Cardoso Jr.	Space-PO-31
Moacyr Machado Cardoso Júnior	Aero 1-O-1
Moe Tanaka	Macro-P-148
Mohamed Afifi	Safety 3-S-6
Mohamed Mokdad	Agi 1-S-2, Agi 2-S-3, CTE 3-S-5, Health 1-S-6, Mus 1-S-3, Mus 1-S-6, Trans 5-S-2, Build 1-S-1
Mohammad Faizan Sohail Lnu	CTE-PO-38
Mohammad Muzammil	SYM 15-O-4
Mohammad Shah Faizan	Product 4-S-3
Mohammed Hamzaoui	DHM 1-O-2
Mohammed Viqer	Space 1-S-4
Mohd. Sahil Khan	Design 2-S-4
Moisés Andrade Coelho	ATWAD 2-O-4
Mojtaba Keshavarz	Macro 3-S-1
Mónica Gabriela Gutiérrez Hernández	UI/UX 3-O-3
Monica Jones	DHM 1-S-5
Morgan Blankenship	UI/UX 8-S-5
Morgane Pujol	UI/UX 7-S-4
Moritz Lennartz	SYM 26-O-4
Moriyasu Takada	Safety-P-75
Motoharu Takao	UI/UX 9-S-3
Motoki Mizuno	Macro-P-145, Macro-P-146, Macro-P-147, Macro-P-148, Macro-P-149, Macro-P-151, Macro-P-152, Visual-PO-35
Motoko Ohira	Safety-P-74, Safety-P-78
Motonori Ishibashi	Transport-P-175
Motoyuki Akamatsu	IEA/ISO 2
Mourad Semmani	Mus 1-S-3, Mus 1-S-6, Trans 5-S-2
Moustafa Zouinar	SYM 23-S-1, SYM 23-S-6
Mowei Shen	Transport-P-179
Muhammad Uba Abdulazeez	Safety 3-S-6
Muhammad Umar	JES-P-220
Muhua Xu	Safety 6-S-1
Mukesh Kumar Kamti	Trans 1-S-6
Munindar Singh	Trans 3-S-3
Mustafa Demir	Space 1-S-1
Myoung-Hwan Ko	VR-P-90, VR-P-91, Health 1-S-5
Myriam Bérubé	SYM 9-S-2, SYM 22-S-2

Author	Session
Myung Bin Choi	UI/UX-P-198
Myung Hwan Yun	AI 2-S-6, SYM 2-S-5, Safety-P-82, SYM 11-S-4, SYM 11-S-5, SYM 14-S-1, SYM 14-S-3, SYM 14-S-4, Workshop 6, VR-P-211, SYM 31-S-2, Opening Ceremony
Myung-Chul Jung	Mus 6-S-4
Myungjoon Lim	Health-P-30

N

Na Liu	CES-Smart Device-S-2
Nadia Aabidah Nur Hafizha	Safety 4-S-2
Nadia Heddad	ATWAD 3-S-1, ATWAD 4-S-5
Nadielda Pastor-Bédard	SYM 9-S-1, SYM 9-S-3
Nakyeong Kim	Mus-P-61, Potpourri 3-S-2
Namhee Kim	Visual 2-S-1, Visual 2-S-3
Nana Ito	Visual 1-S-4, Visual 2-S-2, IEA/ISO 1, SYM 29-S-4
Nancy Black	Gender-P-17, CTE 2-S-5, EC 2, EC 4, EC 5
Nanda Aryal	SYM 25-S-1
Naohito Yoshioka	SYM 21-S-2
Naoki Furuhata	Visual 1-S-4, Visual 2-S-2
Naoki Okabe	DHM 3-S-3
Naoko Kawano	Agi-P-126
Naoko Masuda	Agi-P-126
Naomi Kamoise	DHM 1-O-2
Naomi Maruta	Ant-P-131
Naoto Izumi	Slips 1-O-2
Naoto Shoji	Macro-P-145
Naoya Kanda	Transport-P-181
Naris Charoenporn	Mus 6-S-1
Narucha Komolsuradej	Agi 2-S-1
Natacha Métayer	Transport-PO-33
Natália Ransolin	Resil 1-O-1
Natasa Vujica Herzog	Potpourri 2-O-1
Nathalie Julien	DHM 1-O-2
Nathan Lau	Health 4-S-4
Nathan Vieira	VR-P-209
Nathaniel Newby	SYM 6-S-1, SYM 6-S-2, SYM 6-S-3, SYM 6-S-4
Natsuki Miyata	DHM-P-142
Neelakandan Subramani	Kansei-P-42, Potpourri-P-155
Neelam Verma	Health 3-S-6

Author	Session
Neelesh Sharma	AI 3-O-1
Neville Stanton	AI 1-S-4
Ng Yee Guan	Trans 3-S-1, Macro 2-S-1, CTE 4-S-1
Nicholas Cartocci	Mus-P-60, Slips 1-S-3
Nicholas J. La Delfa	Mus 3-S-5, Mus 3-S-6, DHM 2-S-5, Panel Discussion 6, Mus-P-63
Nicki Newton	Panel Discussion 16
Nicola Saywell	Mus 3-O-2
Nicola Vitiello	Robot 1-S-3
Nicolas Erdinger	Transport-PO-33
Nicolas Niessen	SYM 26-S-7
Nicole Ann Angkaw	CTE 1-O-2
Nicole Vézina	Gender 2-O-1
Nidanuch Jaikham	Safety-P-81
Niels Hinricher	UI/UX 1-S-6, Health 2-S-4, UI/UX 8-S-2, UI/UX-P-193, Health 5-S-2, Health 5-S-4, Health 5-S-5
Nikitha Koradala	CTE-PO-38
Nikka Ella Caneda	Safety 2-S-4
Niklas Grabbe	Transport-P-170
Nina Ferreri	Agi 2-S-2
Nina Theobald	Design 2-S-5
Nina Van Oost	Trans 2-S-3
Ning Xie	CES-Smart Device-S-5
Nirit Gavish	VR 2-S-3, INCOSE 17B
Nobuhiko Yamaguchi	Robot 1-S-4
Nobuyuki Araki	SYM 21-S-2
Noémie Chaniaud	Health 1-O-2
Noemie Morvan	ATWAD 1-S-2
Nohyeon Kim	VR-P-92, VR-PO-36
Nolwenn Lherisson	ATWAD 1-S-4
Noor Fitrihana	Product 2-O-2
Noora Abdullah	Safety 3-S-6
Nor Haslina Mohd	CTE 4-S-1
Nor Wahiza Abdul Wahat	Macro 2-S-1
Nora Oufi	Resil 2-S-1
Norashiken Othman	Potpourri 2-S-4
Norbert Lechner	VR 6-S-1
Norikazu Ohnishi	Safety-P-78
Norimasa Yoshida	Kansei 1-S-3, Transport-P-175
Nova Suparmanto	Product 2-O-2
Numan Khan	Safety 1-O-2

Author	Session
Nuo Cheng	CES-AI-S-4
Nur Gundogdu	Resil 3-O-2
Nurgrahaning Sani Dewi	Build 1-S-5
Nuri Park	Kansei 3-S-2, Safety 7-S-3
Nutsuda Suksanga	Mus 6-S-1
O	
Occhipinti Enrico	Workshop 4
Ole Hans	Trans 3-S-5
Olga Kombeiz	SYM 18-S-1
Olga Puccioni	Health 2-S-3
Oliver Brunner	Mus 7-S-4
Olivia Herzog	Robot-P-65
Olivia Lin	Macro 2-S-4
Omar El Adjimi	Safety 3-O-4
Onésime Sirois	CTE 2-S-5
Ornwipa Thamsuwan	Slips 2-S-5, Ant-PO-5
P	
P. John Clarkson	CES-Design-S-2
Paige DeBaylo	Informal 1-S-4
Pakeeza Abid	UI/UX 2-S-6
Pamela Astudillo	Informal 1-O-3, Gender 2-O-1, Gender 2-O-3, Health 3-O-4
Pan Younghwan	Agi-P-128
Panasit Chaiyanan	Kansei 1-O-1, Kansei 2-O-1
Paola Manfredi	Safety 3-O-3
Paolo Antonio Barros Oliveira	Panel Discussion 11
Park Juneyoung	Safety 6-O-3
Pascal Béguin	ATWAD 3-S-1, ATWAD 4-O-4, ATWAD 4-S-5, SYM 24-O-3, WWCS 1-O-2
Pascal Girardot	Build 2-S-3
Pascal Simonet	SYM 3-S-1, SYM 3-S-3
Patricia Eugenia Sortillón González	Mus 4-O-1
Patricia H. Rosen	Panel Discussion 5, Panel Discussion 12
Patrick Dallasega	Potpourri 2-S-3
Patrick Seebold	SYM 26-O-6
Patrick Steck	DHM 1-S-3
Patrick Waterson	Resil 3-S-5
Paul Arauz	Mus-P-46
Paul Green	Panel Discussion 17

Author	Session
Paul Lambertson	INCOSE 9A
Paul Mathes	Manu 2-S-1
Paul Murray	Ant 1-O-2
Paul Salmon	AI 1-S-4
Paul Ssemakula	VR 6-S-4
Paula Andrea Velasquez Trujillo	Macro 1-O-1
Pauline Roos	Sustain 1-S-6
Paulo Antonio Barros Oliveira	CTE 2-S-6, Potpourri 2-S-6
Paulo Carvalho	Resil 2-S-6
Paulo Eduardo Tonin	Kansei 1-S-4
Paulo Henrique Giusti	Mus 1-O-1, Product 4-O-1
Paulo Victor de Carvalho	Sustain 1-O-3, Resil 2-S-4
Paulo Victor Rodrigues Carvalho	Resil 1-O-4
Pedro A. O. Amarilha	Health-PO-14
Pedro Augusto de Oliveira Amarilha	Safety-PO-30
Pedro Cabral Junior	CTE 1-O-5
Pedro Laires	Mus 8-S-4
Peggy Wang	CES-Transport-S-1
Pei-Chun Tu	Health-P-34, Health-P-35, Mus-P-55, Mus-P-57
Peihan Wen	CES-COMM&SM-S-1
Pei-Hsuan Wu	Trans 5-S-5
Pei-Jung Wu	JES-P-221
Pei-Luen Patrick Rau	UI/UX 4-S-3, Health-P-21, Kansei-P-37, UI/UX 6-S-5, Kansei 3-S-4, Macro 3-S-4, CES-COG2-S-1
Pei-Shan Lin	Mus 1-S-5
Peiyan Duan	CES-Transport-S-2
Pellier Damien	SYM 23-S-2
Peng Li	SYM 1-O-4, SYM 6-S-3, SYM 6-S-4, SYM 6-S-5
Peng Liu	Trans 2-S-5
Pengcheng Li	Macro 1-S-5
Pengfei Zhang	CES-GEN-P-6, CES-Transport-S-6
Pengjie Shi	CES-Interact-S-1
Pengyu Luo	Space-P-86, Space 1-S-3, Space 1-S-5
Pengyu Qu	CES-Biophysical-S-2
Per Magnusson	Manu 2-O-3
Per Nylén	Visual 1-S-2
Peregrin Spielholz	Resil-P-64, Sus-P-88
Peter Burns	Trans 4-S-6, Transport-P-180
Peter Kennedy	SYM 25-S-1

Author	Session
Peter Lundqvist	SYM 16-S-4
Peter Nickel	Safety 3-O-2, VR 6-S-5, IEA/ISO 3, Safety 7-S-4
Peter Schmid	Design 2-S-2
Peter Schumacher	Ant 1-O-2
Peter Vink	Product 4-S-5
Philip Joisten	Design 2-S-5
Philipp Brauner	SYM 26-O-4
Philippe Senecal	SYM 9-S-4
Philjun Moon	VR 1-S-4, VR 2-S-6
Pierre David	DHM 2-O-1
Pierre Falzon	ATWAD 3-S-3
Pierre Royon	ATWAD 4-O-4
Pietro Cosentino	Robot 1-S-3
Pilhyun Yoon	UI/UX 7-S-5
Ping Yeap Loh	Mus 2-S-6, Robot 2-S-1, Robot 2-S-2, Slips-P-167
Pin-Ling Liu	Mus-P-57, CTE 3-S-3, Mus 1-S-5
Po-Chun Nien	Trans 5-S-5
Po-Hsiang Liu	Agi-P-129, Ant-P-130
Po-Hung Lin	Visual-P-200
Pornpimon Prachaphani	Safety-P-81
Pornpun Watcharavitoon	Safety-P-81
Pouyan Sabahi	SYM 6-S-1
Prakash Ranjan Mishra	Health 6-S-6
Pralle Kriengwatana	Potpourri 5-S-6
Pramod Khadilkar	Health 6-S-6
Pranet Shedge	Space 1-S-4
Priscila Wachs	Resil 1-O-1
Prosper Ameh Kwei-Narh	Potpourri 1-S-4
Pryscila Vitória de Souza Guimarães	Visual-PO-34
Psalmantha Galotera	Sustain 1-O-1
Punyisa Arjhansiri	Manu 2-S-4
Putra A. R. Yamin	Trans 2-S-4

Q

Qi Gao	Transport-P-179
Qi Liu	Space 1-S-3
Qian Jue	CES-COG2-O-5
Qian Li	CES-COG1-S-3
Qianqian Luo	Sustain 1-S-4

Author	Session
Qianxi Xiao	CES-POS-P-8, CES-AI-S-5
Qianxiang Zhou	Health-P-18, Safety 6-S-1, Transport-P-168, Health 4-S-5
Qifang Yu	CES-POS-P-8, CES-Smart Device-S-1
Qihan Guo	CES-Aging-S-6, Kansei 1-O-2, CES-Transport-S-5
Qing Zhang	Safety-P-72, Safety 2-S-6, CES-Physical-S-2, CES-Biophysical-S-3, Space 1-S-6
Qingchuan Li	SYM 27-S-4
Qinghua Piao	VR 1-S-4
Qingyang Huang	CES-Transport-S-2
Quan Yuan	SYM 14-O-2

R

Ra Youn Kim	Health 1-S-5
Rachel Goh	Potpourri 3-S-6
Rachel Pfafman	SYM 10-S-1, Health 5-S-3
Rachele Sessa	Mus 8-S-5
Rachma Widaningtyas	UI/UX 2-S-5
Rafaël Weissbrodt	Sustain 1-S-6
Rafaella Yañez	Mus-P-46
Rahul Narasimhan Raghuraman	EC 0 - Student Award, Mus 8-S-3
Raissa Costa	AI 3-S-5, Mus-P-50
Rajan Maroju	Space 1-S-4
Ralph Baier	SYM 26-O-4
Raluca Maria Iordache	Safety 2-S-1, Macro-P-150
Ram Maikala	Panel Discussion 1, Panel Discussion 6, Panel Discussion 9, Informal 1-S-4
Rammohan V. Maikala	HFE-x-S-2
Ran Duan	JES-P-218
Ran Zhao	CES-Interact-S-3
Randi Hovden Borge	SYM 18-O-3
Ranzhi Wei	Health 1-O-1
Raoni Rocha	ATWAD 1-O-1, ATWAD 2-O-1, ATWAD 3-S-2, ATWAD 3-S-4, ATWAD 6-S-4
Raoni Simões	ATWAD-P-5, Informal 1-O-1
Rapeh Jahaziel Galao	UI/UX 1-S-4
Raphael Paquin	Aero 1-S-4
Raquel Cançado	Resil 1-O-3, Resil 2-S-4
Raquel Hoffmann	INCOSE 11B
Rauf Iqbal	DHM 1-O-1, Trans 1-S-6, Potpourri 1-O-3
Ray F. Lin	Potpourri 2-S-5
Ra-Yeon Kim	VR-P-91
Raymond Christian Coronel III	UI/UX 6-S-2

Author	Session
Rebecca Ebert-Allen	Health 3-S-6
Reginald Jeremiah Martua	UI/UX 2-S-5
Reika Abe	Gender 1-S-4
Reiko Mitsuya	Product 4-S-2
Reiko Sakata	Visual 1-S-4, Visual 2-S-2
Reinabelle Angelique Gonzales	UI/UX 1-S-5
Renaldo Blocker	Resil 1-O-2, Health 3-O-5
Renato Vidoni	Potpourri 5-S-1
Renee Quirk	SYM 25-S-1
Renjie Wei	CES-GEN-P-6, CES-Transport-S-6
Renming Zhang	Health 4-S-2
Rensheng Deng	Safety 7-O-1
Renuka Singh	Design 2-S-3
Reynaldo Bautista	SYM 2-S-1
Reza Kazemi	Macro 3-S-1
Ricardo Jn dos Reis	INCOSE 4
Ricardo P. Arciniega-Rocha	Product 3-O-2
Ricardo Reis	INCOSE 15A
Ricardo Silveira	ATWAD 2-O-4
Richard Bowman	Slips 2-S-2
Richard Day	SYM 25-S-1
Richard F. Sesek	Mus-P-47, Mus-P-48, Mus-P-49
Richard Gardner	Resil-P-64
Richard Goossens	Product 3-S-5, UI/UX 6-S-4
Richard Michaud Langis	Gender-P-17
Richard Olawoyin	Kansei-P-99
Richir Simon	Health 1-O-2
Rikke Hansen	SYM 4-O-2
Riku Adachi	Product 1-S-6
Rima R. Habib	SYM 5-O-2
Rina Morohashi	Kansei-P-38
Rix-Lièvre Géraldine	ATWAD 1-S-6
Robbert Boudewijns	Potpourri 5-S-6
Robert Arndt	Health 5-S-5
Robert Fox	Panel Discussion 7, Panel Discussion 17
Robert M. Sesek	Mus-P-48
Robert McDonald	Potpourri 1-S-4
Robert R. Fox	Workshop 1
Roberta Cordeiro	UI/UX 1-O-1

Author	Session
Roberto Bartholo	Potpourri 1-O-1
Roberto Francesco Pitzalis	Mus-P-60
Roberto Gil Annes da Silva	Space-PO-31
Robin Carufel	SYM 1-S-1, SYM 1-O-4
Robin Cuypers	Potpourri 5-S-6
Rochelle Potdar	Space 1-S-4
Rodolfo Vilela	ATWAD 1-S-5
Rodrigo Arcuri	Sustain 1-O-3, ATWAD 3-S-5, Resil 1-O-3, Resil 2-S-4
Rodrigo Calhau	INCOSE 11B
Rodrigo Caride Gomes	Agr 1-O-2
Rodrigo Gheller	Mus 4-S-3
Rohit Negi	INCOSE 9A
Rolf Ellegas	SYM 8-S-1, SYM 8-S-2, SYM 8-S-3, SYM 8-S-4, Panel Discussion 5
Romain Pinquié	INCOSE 11A
Romy Alm	VR 4-S-3
Ronaldo Polancos	UI/UX 1-S-5, Block-P-132
Ronen Shechter	Health 4-S-1
Rong Yin	AI 2-S-5, AI 5-S-5, AI-P-124
Ronggang Zhou	AI 2-S-1, Trans 4-S-5, CES-Physical-S-4, IEA/ISO 2, UI/UX 7-S-1
Rosanna Cousins	Macro 3-S-1
Rose Figueroa	Panel Discussion 11, Panel Discussion 13
Rosemary Seva	SYM 2-S-2, SYM 2-S-3, SYM 2-S-4, EC 4, Kansei 1-S-6, EC 5
Rosemonde Mathieu	Health 1-O-2
Rosimeire Sedrez Bitencourt	CTE 2-S-6, Potpourri 2-S-6
Rossella Onofrio	Health 2-S-3
Rua Williams	Kansei 1-S-5
Ruennusan Metta	Product 2-S-5
Rufina Lau	Mus 7-S-6
Ruifeng Yu	Panel Discussion 3, CES-AI-S-4, CES-COG1-S-6, CES-COG2-S-2, CES-COG2-S-3, CES-COG2-S-4
Ruipeng Zhang	UI/UX-P-196
Ruiqi Chen	UI/UX 10-S-1
Ruisi Shi	CES-POS-P-133
Ruitong Che	SYM 27-S-5
Ruiyuan Hong	INCOSE 7A
Runhao Li	Space-P-86, Space 1-S-3
Rwth Stuckey	Agi 1-S-3
Ryan C. A. Foley	Mus 3-S-5
Ryan Foley	DHM 2-S-5

Author	Session
Ryan Porto	Mus-P-63, Mus 3-S-6
Ryota Murano	Design-P-12, Slips-P-166
Ryota Sakurai	Slips 2-S-4
Ryu Kitabatake	Macro-P-147
Ryul Kim	SYM 19-S-1, SYM 19-S-3, SYM 19-S-4
Ryunosuke Fukada	Kansei 3-S-3
Ryunosuke Kiyota	Product 1-S-6
Ryuta Dharmaputra	Mus 3-S-6
S	
Sabine De Paris	CTE-PO-8
Sabrina Adelaine	Macro 2-S-4
Sabrina Gravel	SYM 9-S-1
Sabyasachi Paldas	Design 1-S-5, Design 2-S-4
Sadao Horino	ESK-JES Joint Symposium
Sadeem Qureshi	Health 3-O-2
Saeedeh Mosaferchi	Trans 4-O-2
Saengrawee Noipli	Safety-P-81
Saerona Choi	AI 2-S-2
Saeyeon Kim	UI/UX 7-S-6
Saki Hosoi	Visual-PO-35
Saki Matsui	Visual 1-S-4
Sakiko Saito	Kansei-P-39
Sakol Teeravaranyo	Kansei 1-O-1, Kansei 2-O-1, UI/UX 10-O-5
Sakshi Taori	SYM 26-S-5
Sakura Nemoto	Macro-P-149
Salim Mouloua	Potpourri 2-S-2, Potpourri 4-S-1
Salma Shaikhoun	Safety 3-S-6
Salman Nazir	Safety 4-S-5
Salvo Andrea Denaro	Product 2-O-1
Samaneh Norouzi	EC 0 - Student Award
Samantha Vila Masse	ATWAD 6-O-1
Samgyu Yang	Safety 7-S-3
Sami Fettah	SYM 9-S-1, SYM 9-S-4
Samikshya Acharya	SYM 1-S-1
Samira Mahlaoui	SYM 3-S-6
Samsiya Khaday	VR 6-S-3
Samuel Dallain	Slips 2-O-1
Samuel Kim	Health 4-S-1

Author	Session
San Hong	Visual 2-S-1, Visual 2-S-3
Sananda Das	DHM 1-O-1, Potpourri 1-O-3
Sandra Béltran	CTE-PO-10
Sandra Gemma	CTE-PO-10
Sandra Milena Muñoz Nunez	ATWAD 4-S-6, Agr-P-101, Agr-P-2
Sandrine Caroly	SYM 5-O-1, ATWAD 3-S-3, Robot 2-S-3
Sandrine Corbaz-Kurth	Sustain 1-S-6
Sandro Wartzack	DHM 1-S-3, Design 1-S-3
Sang Hyeon Kang	Mus 2-S-1, Mus 2-S-3
Sang Jun Park	VR-P-207
Sang Woo Song	SYM 17-S-1
Sangeun Jin	Mus 2-S-2
Sang-Ho Kim	UI/UX 3-S-5, UI/UX 3-S-6, Robot 1-S-6, ESK-JES Joint Symposium, Opening Ceremony
Sanghun Lee	JES-P-220
Sanghyun Choo	UI/UX 3-S-5
Sangmin Lee	Health-P-33
Sangwon Lee	UI/UX 3-S-4, UI/UX 4-S-5, UI/UX 4-S-6
Sangwoo Bahn	SYM 2-S-5
Sang-Wook Lee	SYM 12-S-3
Sangyeon Kim	SYM 7-S-1, SYM 26-O-6
Sanja Hulec	Slips 1-S-4
Sanjay Shukla	Agr 1-S-3
Sanjeev Appicharla	INCOSE 11A
Sanjram Premjit Khanganba	VR 5-S-4
Sanket Naik	Design 2-S-4
Sanket Subhash Naik	Design 1-S-5
Santiago Quintana-Amate	Space-P-85
Sânzia Bezerra Ribeiro	Mus-PO-24, Potpourri-PO-27
SARA ALBOLINO	Workshop 5
Sara Viviani	SYM 29-O-5
Sarah Correa	ATWAD 2-O-3
Sarah Gouveia	Trans 2-O-2
Sarah Grace Emmanuelle Cabanacan	CTE 1-O-2
Sarah Hilmer	SYM 25-S-1
Sarah Jane Cipressi	Design 4-O-1, Design 4-O-2, Design 4-O-4
Sarah Maggioli	Gender 1-O-1
Sarah Rudder	INCOSE 11A
Sarah Schwindt-Drews	Trans 3-S-5

Author	Session
Sarah Williams Ischer	Informal 1-S-4
Sarah-Ann Le Grange	CTE 4-S-6
Saram Lee	Health 6-S-3
Saravana Kumarasamy	Safety 7-O-1
Sascha Wischniewski	Panel Discussion 5, Workshop 8
Saskia Nagel	SYM 26-O-4
Satheesh Gangadharan	AI 3-S-4
Satori Hachisuka	SYM 21-S-4
Satoru Inoue	DHM 3-S-3, Resil 3-S-6
Satoru Umeno	Potpourri 3-S-5
Satoshi Asahina	Slips 1-S-6
Satoshi Muraki	Mus 2-S-6, Robot 1-S-4, Robot 2-S-1, Robot 2-S-2, Ant-P-131, Health 6-S-1
Satoshi Suzuki	Potpourri 4-S-4, SYM 21-S-5, JES-P-213
Sauvik Das Gupta	Agi-P-127
Savanah Laurence	SYM 9-S-4
Scott McLean	AI 1-S-4
Sean Gallagher	Mus-P-47, Mus-P-48, Mus-P-49
Sean Thayer	AI-P-122, CTE-P-135
Sebastian Bernhard	SYM 26-O-4
Sebastian La Rosa	Product 2-S-4
Sebastian Pütz	Visual 1-S-3, SYM 26-O-4
Se-Eun Kim	JES-P-217
Seeung Oh	UI/UX 9-S-2
Seishi Takagi	Product 1-S-6
Sejong Byun	JES-P-218
Selvana Awad	UI/UX 5-S-5, Panel Discussion 16
Sen Li	CES-Transport-S-4
Seng Wee Yap	Safety-P-80
Seokjae Kim	Trans 1-S-3
Seolhee Lee	SYM 31-S-5
Seon-Deok Eun	UI/UX-P-194
Seong Je Park	SYM 20-S-4
Seong Ju Kang	SYM 11-S-3
Seong Kyu Kang	Opening Ceremony
Seong Woo Park	UI/UX 6-S-1
Seongbo Hwang	SYM 12-S-2
Seonghyeok Park	VR 2-S-5, VR 6-S-4
Seonghyeon Kim	SYM 2-S-5
Seongil Lee	IEA/ISO 1

Author	Session
Seongjun Kwag	SYM 4-S-4
Seong-Taek Kim	UI/UX 3-S-6
Seong-Yun Choi	VR-P-90
Seon-Yeong Yeom	Safety 5-S-6
Seon-Young Hwang	SYM 13-S-1
Seoung-Yeon Kim	Agr-P-1, SYM 16-S-3, Mus 4-S-5
Seoyeon Bae	SYM 31-S-3
Seoyoung Kim	Sustain 2-S-1, Potpourri 4-S-3, Workshop 7
Sepideh Ghodrat	Product 4-S-5
Sérgio Pedro Duarte	Trans 2-O-2
Serpil Aytaç	Safety 7-S-5
Seul Chan Lee	AI 3-S-3, Kansei-P-42, Mus 6-S-2, Space 1-S-2, Potpourri-P-155
Seung Hyeon Kang	Trans 1-S-4
Seung Jae Kim	UI/UX-P-198
Seung Ki Moon	SYM 20-S-1, SYM 20-S-4
Seunghwan Kim	Kansei 3-S-2, Safety 6-O-3
Seunghwan Ko	Potpourri 3-S-3, Potpourri 3-S-4
Seungjae Son	SYM 16-S-3, Mus 4-S-5
Seung-Kweon Hong	UI/UX-P-197, Visual-P-202
Seung-Min Mo	Mus 6-S-4, Potpourri-PO-25
Seungmoon Choi	Kansei-P-40
Seung-Rok Kang	VR-P-90, VR-P-91, Health 1-S-5
Seungseon Baek	WWCS 1-S-4
Shabahang Shayegan	Trans 5-S-1
Shady Mohamed	VR 3-O-1
Shahad Alhammadi	Safety 3-S-6
Shahram Sarkani	INCOSE 15B
Shahriman Abu Bakar	Safety 2-S-5
Shama Al Jasmi	CES-COMM&SM-O-3
Shamay Ng	Mus 5-S-6
Shamsul Bahri Md Tamrin	Trans 3-S-1
Shamsul Tamrin	CTE 4-S-1
Shan Gao	INCOSE 7A
Shan Hu	CES-Smart Device-S-3
Shane McFarland	SYM 6-S-2
Shanqing Yin	HFE-x-S-3, Panel Discussion 15
Shanshan Feng	Trans 5-S-4
Sharad Shetty	Mus 6-S-2
Sharon Newnam	Macro 3-S-3

Author	Session
Sharon Todd	Panel Discussion 9
Sharon Tsang	Mus 7-S-6
Sharron O'Neill	Safety 1-S-5
Shasha Wang	CES-COG1-S-4
Sheau-Farn Max Liang	Health 4-S-2
Sheila Ebert	DHM 1-S-5
Sheila Mae Carungay	UI/UX 8-O-1, Product-P-160
Shellen Natasya Suman Ho	Safety 1-S-6
Shelly Salim	Safety 5-S-6
Sheng Su	CES-Interact-S-6
Shengli Niu	Keynote 4.1
Shengyuan Liu	CES-Interact-S-5
Shin Saito	Safety-P-74, Safety-P-75, Safety-P-78
Shin'ichi Fukuzumi	IEA/ISO 1, IEA/ISO 2, Panel Discussion 17
Shin'ichi Uehara	IEA/ISO 2
Shinich Warisawa	SYM 21-S-4
Shino Izutsu	Health-P-36
Shinobu Nakagawa	Potpourri-P-157
Shiva Pooladvand	SYM 26-S-1, Mus 6-S-6
Shi-You Qiu	JES-P-221
Shiyu Deng	Health 4-S-4
Shoko Kimura	SYM 21-S-3
Shreya Anand	Slips 1-O-1
Shreya Vithala	SYM 10-S-1
Shrirang Shriram Joshi	Health 6-S-6
Shruti Chakravarthy	Health 3-S-6
Shuaixin Qi	Safety 3-O-2
Shuang Wang	Agi-PO-3
Shubham Agrawal	Health 6-S-4
Shugo Kasuya	VR 5-S-2
Shun-Ching Chang	Transport-P-182
Shuo Peng	CES-COG2-S-2
Shuping Xiong	VR 2-S-5, Robot 1-S-5, VR 6-S-4, Panel Discussion 4, Slips 1-S-5, Slips 3-S-3, JES-P-215, JES-P-216
Shutong Zhao	CES-Aging-O-1
Shuwu Zhang	CES-Smart Device-S-6
Shuya Kubota	UI/UX 9-S-3
Shu-Yin Wang	Trans 4-S-4
Shuyue Li	JES-P-219

Author	Session
Shu-Zon Lou	Mus-P-59, Safety-P-76
Sia Moon	Kansei 3-S-5
Sicco Santema	Resil 3-S-3
Siddhartha Bikram Panday	JES-P-218, JES-P-219
Sidharth Sonowal	Design 2-S-4
Sienna Pollock	SYM 1-S-1
Silas Schlenk	Health 2-O-1
Silvana Salerno	Gender 1-O-2
Silvia Imbesi	Design 3-S-3, Design 3-S-4
Silvia Lúcia Ferreira	Potpourri-PO-27
Simon Flandin	SYM 22-O-1
Simon Gill	Resil 1-O-2
Simon Hall	Slips 3-S-1
Simon König	VR 1-S-5, VR 4-S-3, CTE 4-S-3, VR-P-208
Simon Layton	Safety 4-S-6
Simon Siebers	VR-P-208
Simona Crea	Robot 1-S-3
Siti Nur Syazwani Sairan	Safety 2-S-5
Siu Shing Man	Mus 5-S-6, ATWAD 5-O-2
Siyu Chen	CES-COG2-O-5
Siyu Zhu	CES-HMI-S-4
So Rim Han	SYM 17-S-2
So Young Kim	INCOSE 1, INCOSE 12, INCOSE 13B, INCOSE 18
So Yun Jeon	SYM 31-S-5
Sofia Morandini	Space-P-85, Potpourri 5-S-1
Sofia Scataglini	DHM 2-O-2
Sogand Hasanzadeh	Mus 6-S-6, SYM 26-S-1
Sohyun Jeong	SYM 12-S-3
Sohyung Cho	VR 3-S-2
Sojeong Yoon	VR 1-S-4
Sojung Gwak	Design-P-15
Sol Hee Yoon	AI 3-S-3, UI/UX 7-S-3
Sol Lim	SYM 26-S-5
Somnath Gangopadhyay	SYM 15-O-3
Sonal Atreya	Visual 2-S-5
Song Ding	CES-AI-S-1
Sonia Tello	Workshop 4
Soo Jin Peck	UI/UX-P-198
Soomin Hyun	EC 0 - Student Award

Author	Session
Soon-Kyo Lee	Mus 4-S-5
Soonkyu Kwon	SYM 13-S-3
Sophia Li	SYM 29-S-1
Sophia Yue Li	Slips 1-S-4
Sophie Hart	Potpourri 5-S-5
Sophie Prunier-Poulmaire	Sustain 1-O-5, SYM 30-O-1
Sophie Ziegler	SYM 26-S-7
Sora Watabe	Visual-PO-35
Sowon Hahn	SYM 31-S-2, SYM 31-S-3
Soyoun Moon	Workshop 3
Soyoung Lee	SYM 13-S-1
Soyoung Lim	VR-P-209
Soyun Jung	VR 3-S-3, Mus 7-S-5
Sri Wening	Product 2-O-2
Srikanth Nouduri	Robot 1-O-2
Stefan Brunner	Safety-P-71
Stefan Schiffer	AI 5-O-3
Stefanie Tänzler	Health 5-S-2
Stefano Porru	Safety 3-O-3, Health 2-O-2
Stefano Signorini	Safety-P-73
Steffen Jansing	Manu 2-S-2
Steffen Kuklinski	CTE 4-S-3
Stéphane Safin	SYM 24-S-5, WWCS 1-S-3
Stéphanie Hannart	Sustain 1-S-6
Stephen Bao	Design-P-14
Stephen Legg	CTE 3-S-6
Stephen Rugg	Product 4-S-4
Stephen Thorpe	Slips 3-S-1, Slips 3-S-2
Stephven Kolose	Build 1-S-2
Steven Fischer	AI 4-S-2, Panel Discussion 1, Mus-P-56
Steven McPhail	Health 2-S-6
Steven Posluszny	Mus-P-13
Steven Rawden	Slips 3-S-2
Steven Truijen	DHM 2-O-2
Sudeep Hegde	Health 6-S-4
Sue Bookey-Bassett	Health 3-O-2
Sue Brouwers	CTE 1-O-6
Su'E Yuan	CES-Health-S-3, CES-Health-S-4
Suhan Hsu	Health 4-S-2

Author	Session
Suhwan Jo	UI/UX 4-S-4
Suhwan Jung	Safety-P-77
Suin Park	SYM 16-S-2
Sujeong Park	Safety-P-77
Sujin Kim	Health 1-S-5
Sujin Seong	UI/UX 2-S-6, Kansei 3-S-5
Suk Lee	Mus 4-S-5
Sukesha Ghosh	Agi 1-S-4
Sukhwan Jung	INCOSE 7B
Sumin Ko	UI/UX 6-S-6
Sunah Kim	VR-P-92, VR-PO-36
Sung Chan Jun	SYM 7-S-1, SYM 7-S-2
Sung H. Han	Kansei-P-40, Kansei 2-S-2
Sung Hee Ahn	SYM 20-S-3
Sung Park	UI/UX 4-S-4
Sung Yong Cho	Health 6-S-3
Sungbum Jun	SYM 12-S-1
Sungchul Lee	CTE-PO-38
Sung-Hee Kim	AI 1-S-5, AI-P-121
Sungho Kim	SYM 14-S-1, SYM 14-S-3, SYM 14-S-5
Sung-Hsin Liu	Macro 2-S-2
Sunghyon Jang	Panel Discussion 10
Sung-Hyun Lim	Workshop 3
Sungjoo Lee	Workshop 6
Sungju Kim	UI/UX 9-S-2
Sungmin Kim	Trans 1-S-2
Sungpil Choi	Mus 8-S-2
Sungwoo Jeong	DHM 2-S-6, Visual 2-S-1, Visual 2-S-3
Sunhong Park	Transport-P-177, Transport-P-186, Transport-P-187
Sun-Hye Shin	VR-P-91
Sunkyeung Yoo	SYM 31-S-1
Sunwook Kim	SYM 26-S-5
Suryeon Kim	Potpourri 3-S-2
Suvi Hirvonen	SYM 18-O-4
Suzanne Hiemstra-van Mastrigt	Resil 3-S-3
Suzanne Young	Resil 1-O-2
Svettlana Marie Vera	SYM 2-S-2, Kansei 1-S-6
Swagatam Dey	Health 6-S-6
Swantje Wells	Transport-P-189, Aero 1-S-5

Author	Session
Swasti Wulanyani	Potpourri 5-S-2
Swati Pal	Agi 1-S-4, Product 4-S-3
Sylvain Fleury	VR 5-S-3, VR 5-S-5
Sylvain Letscher	SYM 9-S-1
Sylvie Nadeau	Safety 1-O-2, Manu 1-O-2
Sylvie Vandestrate	SYM 3-S-5
Syndey Mosser	Informal 1-S-4
Szu-Wen Wang	Visual-P-201
T	
Tadashi Uno	Slips-P-167
Tae Hun Kim	UI/UX-P-198
Tae Hyoung Kim	SYM 11-S-2
Tae Jin Kim	UI/UX-P-198
Taebeum Ryu	Kansei-P-99
Taehyub Lee	SYM 20-S-5
Taehyun Kim	VR 2-S-6
Taekyu Kim	Transport-P-177
Ta-En Hung	CTE 2-S-2
Taeu Kim	Mus 6-S-4
Tae-woong Lee	Robot 1-S-6
Taeyoung Park	Workshop 6
Taezoon Park	Trans 1-S-3
Tahar Hakim Benchekroun	Panel Discussion 2, Panel Discussion 10, Macro 1-O-1
Taiga Yamagiwa	Safety 1-O-1
Taihei Matsuo	Slips-P-167
Taiki Matsunaga	Kansei 3-S-3
Taisei Inoue	Kansei 1-S-3, Transport-P-175
Takafumi Asao	Potpourri 4-S-4, SYM 21-S-5, JES-P-213
Takahiko Kimura	Agi-P-126
Takao Shinkawa	Safety 7-S-6
Takashi Kawai	AI 2-S-4, Product 4-S-2
Takashi Miura	Transport-P-181
Takashi Shibata	VR 5-S-2
Takashi Toriizuka	Panel Discussion 10, Kansei 1-S-3, Panel Discussion 11, ESK-JES Joint Symposium
Takashi Yoshida	Slips 1-O-2
Takeo Kato	DHM-P-89, Kansei-P-38, Kansei 2-O-5
Takeshi Ebara	Panel Discussion 2, Visual-PO-35

Author	Session
Takeshi Sato	Design-P-12, Slips-P-166
Takeshi Yamaguchi	Slips 1-O-2, Slips 1-S-6, Slips 2-S-3, Slips 2-S-4
Takumi Iwaasa	Macro-P-151, Macro-P-152
Tammy Toscos	SYM 10-S-1, Health 5-S-3
Tanja Zigart	VR 6-S-1
Tao Yu	AI 4-S-4, AI 4-S-5
Taoufik Khalfallah	Safety 3-O-4, Mus-PO-21, Mus-PO-23
Taro Kanno	DHM 3-S-2, DHM 3-S-3, Resil 3-O-2, Resil 3-S-6
Taro Okamatsu	SYM 21-S-2
Tasha Flicek	Health 3-O-5
Taylor Shockey	Mus 3-S-3
TBD	Panel Discussion 5
Teerapapa Luecha	Robot 2-S-2
Teeraphun Kaewdok	Mus 6-S-1, Mus 6-S-5
Te-Hung Chen	Macro 2-S-2, Product-P-163
Teresia Nyman	Manu 2-O-3
Tero Sotamaa	INCOSE 5B
Teruchika Ikeda	SYM 21-S-5
Tetsuo Misawa	Safety-P-75
Thaís Viana	UI/UX 1-O-1
Thamyres Abreu	Product 3-O-1
Thea Andrea Abner	Sustain 1-O-1
Theresa Prinz	Robot-P-96
Therriault Pierre-Yves	Macro-P-97
Thiago Medeiros Fonseca	Agr 1-O-2
Thibault Chiron	SYM 3-S-3
Thibault Kerivel	CTE 2-S-4
Thierry Meyer	Sustain 1-O-5
Thomas Agyekum	SYM 15-S-5
Thomas Alexander	Workshop 8
Thomas Chan	INCOSE 12
Thomas Gries	SYM 26-O-4
Thomas Jun	Panel Discussion 14
Thomas Maier	Trans 3-O-4, Health 2-O-1, Design 2-S-2
Thomas Mazzuchi	INCOSE 15B
Thomas Schnieders	Product 2-S-4
Thomas Tegerstrand	Manu 2-O-3
Tiago Almudi	Mus-P-50, Mus 4-S-3
Tianchen Sun	Panel Discussion 4, DHM-P-141

Author	Session
Tianjian Cui	Product 1-S-5
Tianlun Yang	CES-Interact-S-5
Tianyu Tang	Transport-P-171
Tien-Hsueh Chen	Visual-P-201
Tien-Sheng Lin	CTE-P-139
Tiju Baby	Space 1-S-2
Tilak Dutta	Slips 1-O-1
Tim Merkel	Robot-P-65
Tim Schacht	Design 1-S-3
Ting Shi	CES-AI-S-6
Ting-Chen Chou	UI/UX 2-S-2
Ting-Hsuan Wang	Trans 5-S-5
Tingru Zhang	CES-AI-S-3
Tingting Lu	INCOSE 5A
Tingting Wang	Health 1-O-1, UI/UX 6-S-4
Tingting Zhu	Health-P-21
Titah Yudhistira	Build 1-S-5
Titouan Le Pelley Fonteny	Resil 3-O-1
Tiwana Varrecchia	Mus 3-O-1
Toby Garner	Safety 4-S-6
Todd Garlie	SYM 1-S-1, SYM 6-S-3, SYM 6-S-4
Todd McGeorge	Health 6-S-4
Tom Hermen	Trans 3-S-6
Tomas Pinho Ferreira	ATWAD 5-S-4
Tommaso Bellandi	Health 1-S-4, Robot 1-S-3, Panel Discussion 15
Tommy Langen	INCOSE 15A
Tomoki Yokota	JES-P-213
Tomoyuki Hasegawa	Safety-P-78
Tongil Jang	Transport-P-98
Toni Alterman	Mus 3-S-3
Tony Carden	AI 1-S-4
Toshiaki Nishi	Slips 1-O-2, Slips 2-S-3, Slips 2-S-4
Toshio Murayama	Safety 1-O-1
Traci Speed	Health 4-S-1
Tse-Hsun Kuo	Ant 1-S-4
Tsu-Wei Liao	JES-P-221
Tu Sheng Lee	Health 4-S-2
Tuo Liu	Sustain 1-S-4
Twin Yoshua R. Destyanto	Safety 1-S-6, CTE 4-S-5

Author	Session
Tyler Houston	Macro 2-S-4
Tyler Shaw	Potpourri 2-S-2, Potpourri 4-S-1
U	
Udo-Ernst Haner	Macro 1-O-3
Udomboonyanupap Sumalee	Product 2-S-5
Ui-Jung Kwon	Potpourri 5-S-4, Product 1-S-2
Ulugbek Vahobjon Ugli Ismatullaev	Product 1-S-2, Potpourri 5-S-4
Ummi Noor Nazahiah Abdullah	Potpourri 2-S-4
Ummi Rashidah Mahamud	Safety 6-S-2
U-Ri Chae	Mus 4-S-5
V	
Valentin Strahm	Trans 3-S-6
Valentino Piana	Sustain 1-S-6
Valérie Duvivier	CTE-P-134
Valerie O'Keefe	Panel Discussion 11
Valérie Pueyo	SYM 24-O-4
VALERIO CAPRARO	Workshop 5
Vanessa C. Erazo-Chamorro	Product 3-O-2
Vanessa Goulart Dorneles	CTE-PO-8
Vanessa Huron	Design 3-S-1
Vanessa Pulsara	Health 3-O-1
Vanessa Remery	SYM 9-S-4
Vanessa Santillan	UI/UX 1-S-4
Vanessa Segura-Duque	Ant 1-S-4
Vanessa Weßkamp	Manu 2-S-2
Varshin Vala	Mus 6-S-2
Varun Sai Koruprolu	Design 2-O-1
Veeresh Elango	DHM-P-140
Veerle Ross	Trans 2-S-3
Vera B. Rick	Safety 4-S-4
Verena Nitsch	Visual 1-S-3, Robot 1-O-2, Panel Discussion 12, Mus 7-S-4, Safety 4-S-4, SYM 26-O-4
Vesna Marija Potočić Matković	Product-P-95
Vézina Nicole	Potpourri 3-O-1
Vicente Nepomuceno	Agr 1-O-2
Victor Cornet	SYM 10-S-1, HFE-x-S-4, UI/UX 7-S-2, Health 5-S-3
Victor Eiwen Lo	Mus-P-55
Victoria P Weale	Agi 1-S-3

Author	Session
Victoria Steane	Potpourri 5-S-5
Victoria Villalobos	Panel Discussion 9
Victoria Weale	Mus 2-S-4, Macro 3-S-3
Vigneshkumar Chellappa	SYM 27-S-3
Vijay Santikari	Agr 1-S-3
Vincent Boccara	Safety 3-O-1
Vineet Kant	INCOSE 15A
Vink Peter	Product 2-S-5
Viorica Petreanu	Safety 2-S-1
Virgil Rousseaux	SYM 23-S-1
Virginia Piombino	UI/UX 4-O-2
Virpi Ruohomäki	SYM 18-O-4
Vitor Fernando Pereira	ATWAD 3-S-2, ATWAD 3-S-5
Vitor Pereira	ATWAD 3-S-4
Vitor Rodrigues	ATWAD 1-O-1
Vivek Kant	INCOSE 7B, INCOSE 9A
Vivian Mininel	ATWAD 1-S-5
Vladimiro Lourenço	Trans 2-O-2

W

W. Patrick Neumann	CTE 2-S-5, Health 3-O-2
Waddah S. Ghanem Al Hashmi	Safety 4-S-5
Walter Martinez	Mus-PO-17
Wan Nor Fatihah W Mahmod	Potpourri 2-S-4
Wanjing Jia	CES-Biophysical-S-5
Wanki Moon	Kansei 3-S-1, Build 1-S-4, Build 2-S-1
Wansoo Kim	Panel Discussion 12
Wasim Akram	DHM 1-O-1, Trans 1-S-6, Potpourri 1-O-3
Wattasit Sriwong	Mus 6-S-5
Weerawit Wijitpanyachot	Manu 2-S-4
Wei Li	CES-HMI-S-1
Wei Lin Ng	SYM 27-S-1
Wei Tan	INCOSE 11B
Wei Zhang	Panel Discussion 3, AI 5-O-1, ESK-JES Joint Symposium, EC 3, CES-COG2-S-6, Transport-P-172, Transport-P-176, Keynote 5.1
Wei Zhou	Ant 1-S-6
Weijia Sheng	CES-Biophysical-S-3, Space 1-S-6
Wei-Ru Chen	Safety-P-70, Transport-P-94, VR-P-206
Weisheng Jiang	Transport-P-168

Author	Session
Weitao Jiang	CES-Smart Device-S-3
Wen Liang Yeoh	Mus 2-S-6, Robot 1-S-4, Robot 2-S-1, Robot 2-S-2
Wen-Chin Li	INCOSE 3
Wenchu Huang	CES-Health-S-2, CES-Health-S-7
Wendi Van Buskirk	AI-P-122, CTE-P-135
Wendy A Macdonald	Mus 3-S-4
Wendy Joung	CTE 1-O-6
Wendy Tiara Larasati	UI/UX 3-O-2
Wenjun Hou	CES-COG1-O-1, CES-HMI-S-2
Wen-Jun Wong	Health-P-23
Wen-Kui Yang	Trans 4-S-4
Wenqi Fang	Design 1-S-4
Wenshan Yang	Safety 2-S-6, CES-Physical-S-2
Wen-Shin Chiu	Potpourri-P-154
Wenxin Shi	CTE 4-S-4
Wenxing Ding	CES-HMI-S-1
Wenyi Liao	CES-HMI-S-3
Wenyu Wu	Product 1-S-5, Slips 3-S-3
Will Green	SYM 6-S-4
William Azalim Do Valle	ATWAD 2-O-4
William F. Bond	Health 3-S-6
William Green	SYM 6-S-3
William Zhao	Mus-P-56
Willy Buchmann	Macro 2-S-3
Wira Madria	Product-P-165
Wolfgang Merx	AI 5-O-3
Wolfram Remlinger	Trans 3-O-4
Wonchul Cha	VR-P-209
Wongeon Jung	Agr-P-1, SYM 16-S-2
Wonhee Lee	SYM 20-S-5, Opening Ceremony
Wonjae Youn	WWCS 1-S-4
Wonjin Ko	VR-P-207
Wonsup Lee	DHM 2-S-4, SYM 6-S-6, UI/UX 6-S-1
Woo Seong Joo	UI/UX 2-S-1
Woo Su Choi	JES-P-220
Woojin Park	DHM 2-S-6, Trans 1-S-2, Visual 2-S-1, Visual 2-S-3, VR 1-S-4, VR 2-S-6
Woojin Wie	SYM 26-S-2
Woojoo Kim	UI/UX 7-S-6
Woosung Jung	UI/UX 4-S-4

Author	Session
Wu Yi Zheng	SYM 25-S-1
Wyke Kusmasari	Build 1-S-5

X

Xavier Robert-Lachaine	SYM 8-S-6
Xi Qian	CTE 1-O-1
Xiandi Wang	AI 2-S-5
Xianliang Ge	CES-POS-P-7
Xianwen You	CES-Interact-S-6
Xiaohan He	Trans 4-S-5, UI/UX 7-S-1
Xiaohan Xiang	Potpourri 3-S-5
Xiaojuan Bai	CES-Biophysical-S-4
Xiaojun Lai	Health-P-21, Kansei-P-37
Xiaolei Song	CES-POS-P-7, CES-HMI-S-4
Xiaoli Liu	Robot-P-66
Xiaoli Wu	CES-Aging-S-4, CES-Aging-S-5, CES-Design-S-5, CES-COG1-S-3, Manu 3-S-1
Xiaoling Li	Safety-P-79
Xiaolong Wang	Space-P-86
Xiaoman Jiang	CES-Aging-S-5, CES-Design-S-5, Manu 3-S-1
Xiaomei Tan	AI 2-S-5
Xiaomeng Sun	CES-Interact-S-1
Xiaonan Yang	CES-Physical-S-3
Xiaoping Jin	CES-HMI-S-5, CES-Transport-S-2
Xiaoqun Yu	Slips 3-S-3
Xiaoshan Wang	CES-Design-S-6
Xiaoyan Shen	CES-COG1-S-4
Xiaoyu Li	ATWAD 5-O-2
Xiaoyu Wang	ATWAD-P-4
Xiaozhou Zhou	Slips 3-S-3
Xilu Tang	CES-Aging-S-4, CES-Aging-S-5
Xin Cui	AI 4-S-1, DHM 2-S-4, VR 3-S-3, VR 3-S-5, DHM-P-143
Xin Zhou	Robot-P-66, Safety-P-79
Xing Fang	CES-Aging-S-6, CES-Transport-S-5
Xing Kailin	JES-P-219
Xing Pan	CES-AI-S-1, CES-Transport-S-3
Xingcan Yang	CES-COG1-S-3
Xinli Yu	CES-Biophysical-S-5
Xintong Wu	JES-P-216
Xinyu Sui	CES-COG1-S-4

Author	Session
Xinyue Cao	CES-Aging-O-1
Xinyue Kang	UI/UX 6-S-5
Xinyue Liu	CES-GEN-P-6, CES-GEN-P-6, CES-Transport-S-6
Xiranai Dai	Safety-P-73
Xiucheng Xu	CES-Transport-S-2
Xiuying Hu	Robot 1-O-1
Xiyuan Zhang	Product 1-S-5
Xu Jin	CES-Health-S-2, CES-Health-S-7
Xuan-Tan Pham	Safety 1-O-2
Xuanzhi Wang	CES-AI-S-4
Xuanzhu Wan	CES-Physical-S-3
Xudong Zhang	Keynote 6.2
Xue Wu	Health-P-20
Xueshuang Wang	CES-Health-S-5
Xuguang Wang	DHM 3-S-1, Trans 5-S-1
Xuxin Wang	CES-Health-S-3, CES-Health-S-4
Y	
Yafeng Niu	Slips 3-S-3
Yakir Yaniv	INCOSE 15A, INCOSE 17B
Yan Ge	Transport-PO-32
Yan Luximon	Panel Discussion 3, SYM 27-S-1, SYM 27-S-3
Yan Shi	CES-Smart Device-S-2
Yang Chen Hsieh	VR-P-206
Yang Liu	Robot-P-66, Safety-P-79
Yang Lu	Sustain 1-S-4
Yang Sun	INCOSE 5B
Yang Yang	CES-HMI-S-3
Yanghee Kim	CTE-PO-38
Yang-Kun Ou	VR-P-206
Yangyang Liu	CES-Health-S-3, CES-Health-S-4
Yanhui Wu	CES-Interact-S-5
Yaniel Torres	CTE 1-O-3, Health 3-O-1, Manu 1-O-1, Manu 1-O-3, Health-PO-12, Mus-PO-17
Yaning Li	CTE 1-O-1
Yanjie Zhang	Trans 5-S-4
Yankuan Liu	UI/UX 4-S-3
Yanling Zuo	CES-Design-S-1, CES-Transport-S-1
Yanmin Xue	Safety-P-79, Agi-PO-3
Yann Poley	Safety 3-O-1

Author	Session
Yannick Metzler	Panel Discussion 5
Yanqin Dong	CES-POS-P-10, CES-POS-P-11, CES-Design-S-3
Yan-Teng Lian	Transport-P-182
Yanto Naude	Mus 3-O-2
Yanzeng Zhao	Space-P-86, Space 1-S-3, Space 1-S-5
Yao Song	SYM 27-S-4
Yao Wang	CES-Smart Device-S-5
Yaping Zhang	CES-Physical-S-4
Yaritza Hernandez	SYM 6-S-1, SYM 6-S-3, SYM 6-S-4
Yaroslav Menshenin	INCOSE 11A
Yasmine Gherbi	Slips 2-S-5
Yasser León-Montes de Oca	AI-PO-1
Yassierli Yassierli	Build 1-S-5
Yasuhiro Hatori	Mus 4-S-4
Yasuyuki Hochi	Macro-P-145, Macro-P-149, Macro-P-151, Macro-P-152
Yasuyuki Yamada	Macro-P-151, Macro-P-152, Visual-PO-35
Yazmin Diaz	CTE-P-135
Ye Eun Kim	Product-P-159
Yea Rim Cho	UI/UX 2-S-1
Yeahna Ryu	Health 6-S-3
Yeahyoung Jeon	VR 6-S-4
Yea-Jen Hsu	Health 4-S-1
Yee Guan Ng	Safety 6-S-2
Yein Song	SYM 2-S-5, DOCQ-S-1
Yeji Sung	AI 2-S-2, Kansei 3-S-2
Yejin Lee	AI 4-S-1, DHM 2-S-4, VR 3-S-3, Kansei-P-41, DHM-P-143
Yen-Chen Chien	UI/UX 1-S-3
Yen-Chen Tseng	Potpourri-P-154
Yen-Ting Lin	Trans 4-S-4
Yeojin Kil	Safety-P-67
Yeonghwan Shin	Health-P-32
Yeongju Seo	UI/UX 10-S-2
Yeonji Kim	UI/UX 7-S-6
Yeonjin Joo	VR 2-S-4
Yesenia M. Paz-Cerón	Product 3-O-2
Yewon Seol	UI/UX 5-S-4
Yi Qi	CES-Health-S-6
Yi Rong Tan	SYM 10-S-1, Health 5-S-3
Yi Wang	Transport-P-176

Author	Session
Yibo Zhao	CTE 1-O-1
Yichen Guo	CES-Interact-S-4, CES-COMM&SM-S-2
Yidan Dong	CES-Health-S-2, CES-Health-S-7
Yidan Qiao	CES-HMI-S-3
Yifan Chen	AI-P-124
Yifan Zhu	CES-Design-S-1
Yige Fan	CES-COMM&SM-S-4
Yihang Lv	CES-POS-P-9, CES-AI-S-5
Yihui Chen	AI 4-S-4, AI 4-S-5
Yihui Ren	Product 1-S-5, UI/UX 10-S-1
Yi-Jing Wu	Potpourri-P-154
Yilena Cuello Cuello	Potpourri-PO-26
Yili Yin	Transport-P-179
Yilin Wang	Robot 1-O-1
Yilizati Abulaiti	SYM 21-S-3
Yiming Huang	Sustain 1-S-4
Ying Gao	CES-Physical-S-1
Ying Han	AI 2-S-5
Ying Zhou	Transport-PO-32
Yingchun Xu	CES-Design-S-4
Yi-Ning Chen	Gender-P-16
Yiran Chen	CES-Biophysical-S-3, Space 1-S-6
Yi-Ting Wang	Health-P-23
Yi-Ting Wu	Health 4-S-2
Yiwei Sun	CES-Smart Device-S-5
Yiwei Xiong	CES-Smart Device-S-2
Yixuanzi Cao	CES-COMM&SM-S-2
Yixun Liu	CES-COMM&SM-S-4
Yiyang Zhao	CES-Biophysical-S-4
Yoann Lafon	DHM 3-S-1
Yohan Tak	UI/UX 6-S-1
Yoko Aiba	Safety-P-75
Yoko Ichikawa	Safety-P-74, Safety-P-78
Yolanda Hyde	CTE-P-137
Yong Gu Ji	Safety-P-77, Potpourri 3-S-2
Yong Min Kim	VR 4-S-2
Yonghao Huang	CES-COG2-S-6
Yonghyeon Kim	SYM 26-S-3
Yong-Jin Yoon	SYM 20-S-5

Author	Session
Yong-Ku Kong	SYM 16-S-3, Mus 4-S-5, Mus 7-S-2
Yongyan Fu	CES-Design-S-4, CES-Health-S-1
Yoo Suk Hong	Workshop 6
Yoon Kyoo Kang	Keynote 6.1
Yoon Kyung Lee	SYM 31-S-2
Yoon Ping Chui	CTE 3-S-4
Yoonjea Jeong	SYM 17-S-1
Yoonjin Lee	VR 1-S-4, Workshop 3
Yoonkyeong Kim	Transport-P-177, Transport-P-187
Yordán Rodríguez	Manu 1-O-4, Agr-PO-4, AI-PO-1, Health-PO-12, Health-PO-13, Macro-PO-15, Manu-PO-16, Mus-PO-18, Mus-PO-19
Yoshihiro Banchi	AI 2-S-4, Product 4-S-2
Yoshihiro Hoshikawa	Health-P-36
Yoshihiro Sasaki	Slips 2-S-3, Slips 2-S-4
Yoshihito Masuoka	VR-P-210
Yoshiki Kurata	CTE 1-O-2, Sustain 1-O-1
Yoshiki Tominaga	Resil 2-S-3
Yoshitomo Takahashi	Safety 7-S-6
Yoshiyuki Kamakura	SYM 21-S-2
Yoshiyuki Kobayashi	Kansei-P-39, Agi-P-127
Yoshiyuki Tsuda	Safety 7-S-6
Young Chun	UI/UX 5-S-2
Young Dae Ko	SYM 17-S-3
Young Kwan Ko	SYM 17-S-3
Young Woo Kim	AI 3-S-3, UI/UX 7-S-3, Potpourri 3-S-2, Workshop 7
Younggeun Choi	AI 4-S-1, Health 1-S-5
Younghwan Pan	AI 4-S-4, AI 4-S-5, UI/UX 2-S-4, VR 4-S-6, UI/UX 10-S-3
Young-Hwee Lee	Safety-P-83
Youngjae Im	Product 1-S-4, UI/UX 9-S-2, Product-P-161, UI/UX 10-S-4
Youngjung Geum	Workshop 6
Youngki Kim	UI/UX 9-S-5
Youngseo Kim	UI/UX 5-S-4
Youngsik Shin	SYM 12-S-2
Yow-Tyng Lin	Health 6-S-5
Yu Bai	INCOSE 7A
Yu Gyeong Son	VR 4-S-2, Safety 3-S-5
Yu Hsuan Yang	Visual-P-200
Yu Tian	INCOSE 7A
Yu Zhang	CTE 1-O-1

Author	Session
Yu Zhu	Trans 4-S-5, UI/UX 7-S-1
Yuan Bai	Health-P-32
Yuan Fang	Health 4-S-5
Yuan Xing Xu	Safety 7-O-1
Yuan Yang	Robot 2-S-2
Yuanjia Zheng	CES-AI-S-3
Yuanyuan Xian	INCOSE 7A
Yubin Ahn	UI/UX 2-S-6
Yubin Xie	AI 2-S-1
Yu-Cen Kuo	Transport-P-94
Yuchang Kim	Mus-P-61
Yuchang Zhang	CES-Interact-S-5
Yuchen Liu	Transport-P-170
Yu-Cheng Lin	UI/UX 1-S-3, Ant 1-S-5
Yu-Chi Chen	Safety-P-76
Yu-Chi Lee	Design 1-S-4
Yu-Chun Liao	Agi-P-129
Yue Jiang	CES-Design-S-2
Yuexin Huang	Product 1-S-5
Yueying Chu	Trans 2-S-5
Yufan Wu	CES-COMM&SM-S-1
Yuhan Chen	Design 3-S-2
Yuhan Jin	CES-COG1-O-1
Yuhan Wu	CES-Aging-S-4
Yuh-Chuan Shih	Gender-P-16, Mus-P-58, Mus-P-59
Yu-Hsing Huang	Panel Discussion 3
Yui Endo	IEA/ISO 1
Yuito Nishida	Safety 1-O-1
Yujeong Ha	Visual-P-202
Yujin Chae	Health-P-32
Yujin Hong	Product-P-159
Yuki Kobayashi	UI/UX 9-S-3
Yuki Mekata	Health-P-28, Health 6-S-2
Yuki Mizuno	Health-P-36, Macro-P-151, Macro-P-152
Yu-Lin Hsiao	Transport-P-182, Transport-P-183
Yulin Tan	CES-Aging-O-2
Yumi Arai	Macro-P-151, Macro-P-152
Yuming Wang	UI/UX 2-S-4
Yun Seong Kim	AI 2-S-3

Author	Session
Yun Wang	CES-Health-S-2, CES-Health-S-7, Potpourri-PO-28
Yunah Kang	UI/UX 10-S-4
Yung-Ching Liu	Trans 5-S-5
Yuning Wei	CES-Transport-S-2
Yunjeong Song	UI/UX 6-S-6
Yun-Ju Jo	VR-P-91, Health 1-S-5
Yun-Ju Lee	Mus-P-58, Potpourri-P-153, Potpourri-P-154, Visual-P-201
Yunlu Ding	SYM 27-S-2
Yunsheng Guan	CES-Health-S-5
Yura Kim	UI/UX 7-S-6
Yuran Huang	CES-Biophysical-S-1
Yuri Kokubun	Design-P-12
Yuri Nishizawa	Panel Discussion 10
Yu-Sen Wu	Potpourri-P-153
Yushi Fujita	IEA/ISO 3
Yushin Lee	VR-P-207
Yusuke Maeda	DHM-P-142
Yusuke Ohira	AI 2-S-4, Product 4-S-2
Yuta Matsushita	Resil 2-S-3
Yutaka Kikuchi	Potpourri 3-S-5
Yuting Bai	CES-Aging-O-1, CES-Aging-O-2
Yu-Ting Lin	Ant-P-130
Yuting Tang	Macro 3-S-2, Sustain 1-S-4
Yu-Ting Wu	VR 6-S-2
Yuto Miyake	Resil 3-S-6
Yuuka Kurihara	Safety 1-O-1
Yuval Bitan	Safety 4-S-1, SYM 25-S-3, INCOSE 17B
Yuxing Dong	CES-COMM&SM-S-2
Yu-Yin Lin	Health-P-23
Yuying Fan	INCOSE 11B
Yuzhen Wang	CES-COG1-S-6
Yuzhuo Shu	SYM 21-S-2
Yves Roquelaure	Build 2-S-3

Z

Zaifeng Gao	Transport-P-179
Zenggen Ren	CES-Transport-S-4
Zequan Lin	Ant 1-S-6
Zequn Liu	AI 4-S-6

Author	Session
Zexi Fang	Manu 3-S-1, CES-Design-S-5
Zeyu Zhao	CES-Smart Device-S-6
Zhao Xu	SYM 27-S-4
Zhaoning Zhang	INCOSE 7A, INCOSE 11B
Zhe Chen	AI 4-S-6, CES-POS-P-10, CES-POS-P-11, CES-POS-P-8, CES-POS-P-9, CES-Design-S-3, CES-AI-S-5, CES-Smart Device-S-1, CES-Interact-S-2, CES-Interact-S-3
Zhecheng Wang	CES-COG2-S-3
Zhelin Li	CES-Aging-O-1, CES-Aging-O-2
Zhenfeng Ren	Health-P-18
Zhenkun Zhou	CES-Interact-S-4
Zhenyu Hu	CES-Interact-S-5
Zhi Guo	CES-COG2-S-1
Zhi Zeng	CES-Smart Device-S-6
Zhibin Xiao	CES-Design-S-4
Zhigang Xu	Trans 2-S-5
Zhiliang Zhu	CES-Health-S-2, CES-Health-S-7
Zhiming Gou	CES-HMI-S-3
Zhi-Xuan Chen	Health-P-34, Health-P-35, CTE-P-139
Zhongqi Liu	Safety 6-S-1, Transport-P-168, Health 4-S-5
Zhuoman Liu	SYM 27-S-1
Ziang Li	SYM 14-O-2
Zijian Cao	CES-Health-S-1
Ziqi Ban	AI-P-124
Ziyao Li	CES-Transport-S-3
Zoltán Kutasi	Build 1-S-6
Zongqi Liu	Health-P-18
Zongxu Cheng	INCOSE 11B
Zuhua Jiang	CES-COG1-S-5
Zushi Liu	CTE 1-O-1
Zuyao Wang	CES-Interact-S-5
Zuyuan Wang	Trans 5-S-3, CTE 4-S-4

2024 산업안전 대진단

"안전보건관리체계" 진단하고 개선해 보세요!

산업안전 대진단, 무엇인가요?

- **중대재해 예방** 및 **중대재해처벌법 대비**를 위해 중소 사업장(5~50인 미만) 83만개소의 **안전보건관리체계 구축·이행**을 **자가진단**하고, 정부의 맞춤형 지원사업과 연계하여 **안전수준**을 **개선**하는 것입니다.

산업안전 대진단, 왜 해야하나요?

- 「**산업안전 대진단**」을 통해 중소 사업장에서 **중대재해처벌법에 대비**하고 **안전보건관리체계를 구축·이행**하는데 도움을 받을 수 있습니다.
- 궁극적으로는 사업장의 **안전보건관리체계 구축** 등 **안전 및 보건 확보 의무를 이행**함으로써 **중대재해를 예방**할 수 있습니다.

산업안전 대진단, 어떻게 참여할 수 있나요?

- **(온라인)** PC·모바일로 접속하며, 접속 방법은 아래의 절차를 따라하세요.

1단계	2단계	QR Code
(PC) 안전보건공단 홈페이지 접속 ☞ http://www.kosha.or.kr (모바일) 우측의 QR Code 스캔	누리집에 표출된 **"산업안전 대진단" 팝업**을 **클릭** 후, 절차에 따라 진행	

- **(오프라인)** 우편·방문을 통해 안내받은 자가진단표를 작성하고, 산업안전 대진단 상담·지원센터를 통해 상담·지원 받을 수 있습니다.
- **(산업안전 대진단 상담·지원 문의)** ☎1544-1133

산업안전 대진단, 어떻게 진행 되나요?

대진단 실시	대진단 결과	안전개선 노력	대진단 상담·지원
▪ 자가진단표 (10개 항목) ▪ 온·오프라인 진단	▪ 안전보건관리체계 수준 확인 ▪ 대진단 결과 확인	▪ 정부 지원 신청 (컨설팅/기술지도/재정지원 등) ▪ 자체개선	▪ 대진단 상담·지원 센터 운영 ▪ 맞춤형 지원

산업안전 대진단, 어떤 혜택이 있나요?

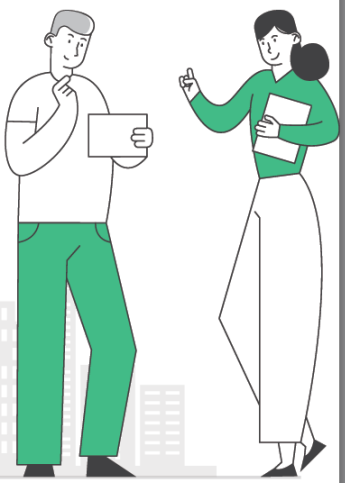
- 첫째, 대진단 실시 후 **지원신청 사업장**은 신속한 상담·지원을 받을 수 있습니다.
- 둘째, **상담·지원센터**에서 **사업장 맞춤형 지원**을 받을 수 있습니다.
- 셋째, **중대재해를 예방**하고, **중대재해처벌법에 대비**할 수 있습니다.

고용노동부 산업재해예방 안전보건공단

2024-산업안전실-43

산업재해예방
안전보건공단
산업안전보건연구원

OSHRI :View



연구전문지 소식을 간편하게
메일로 받아보세요!

OSHRI:View란?

산업안전보건의 최근 연구동향 및 전년도 연구과제를 소개하는 뉴스레터 형식의 연구전문지 입니다.

내용

- 산업안전보건 이슈에 대한 연구과제 소개
- 현재 OSHRI연구진이 수행하는 전문활동 안내

신청방법

뉴스레터 이제 메일로 간편하게 신청하세요!

연구원 홈페이지 > | 연구원 소식 > | 메일링 신청 >

*신청한 다음달 호 부터 발송예정

문의 :052-703-0817

VICON

LEGENDARY PERFORMANCE

V A L K Y R I E

Bleeding edge speeds
- 최대 500FPS(VK8 기준)
- Windowing 적용시 최대 2000FPS

A precision-engineered lens
- 새롭게 설계된 전용 Varifocal lens

Intuitive operation
- 30FPS full video preview 지원

A camera for any environment
- IP65 방진/방수 적용

VK8(8MP) / VK16(16MP) / VK26(26MP)

Powerful analysis and modeling of data

Enhanced video support

THEIA Markerless, Tobii Pro Glasses 3 호환

NEXUS 2

TRACK.ANALYZE.DISCOVER.

MANUS™

QUANTUM METAGLOVES

Hand & Finger Data for Ergonomics & Robotics
- Finger Absolute Position, 3 axis Rotation 데이터 취득
- Tesla Optimus Bot 등 Machine Learning 학습

Stream hands move in Real-Time
- C++ SDK, OpenXR 등 핸드 데이터 실시간 스트리밍

VISOL

주식회사 비솔
경기도 광명시 안양천로502번길 15, 601호
Tel. 02-2612-2111 / Fax. 02-2612-0660 / utar@visol.co.kr
www.visolmocap.com

ANYFIVE
Hub of IP/Technology from Korea

www.anyfive.com

Korea's Leading Company in IP/Technology Commercialization Platforms

ANYFIVE is Korea's leading company specializing in R&D and intellectual property (IP) management solutions. We provide integrated database, solutions, and services for the discovery, management and commercialization of technology. And we offer global IP services through an IP platform and cloud services that connect with the global market. These services include intellectual property management, technology commercialization, brokerage/distribution, patent investigation and analysis, and patent annuity fee management.

Our Business

We provides global IP solutions and total services required by a variety of industires.

- A Global Leading Platform for The Commercialization of K-IP/Technology
- Integrated IP Management Solution
- IP Outsourcing Cloud Service
- Annual Fee Payment Services for Domestic & International Registrations
- AI & Big Data-Driven Technology & Competitive Analysis Tool
- AI-based company valuation and transaction support services

Headquarters(Seoul): 1603, Daeryung Post Tower1, 288, Digital-ro, Guro-gu, Seoul, Korea
Branch(Daejeon): 593, Daedeok-daero, Yuseong-gu, Daejeon, Korea
For Products: T.(+82)1544-2878 / E. sales@anyfive.com **For Service:** T.(+82)1533-6880 / E. thinkcat@anyfive.com

Tmoney

Must-Have Item for Korea Travel

Mobile KOREA TOUR CARD

Mobile Korea Tour Card provides
better user experience with a number of tourist benefits.

Transportation and travel card exclusively for foreign visitors, KOREA TOUR CARD enables more convenient access to
the means of the Korean transportation such as subways, buses, and taxies.
A must-have item for travel, offering discounts for various travel content such as shopping, food and beverages, performances, and so on.
So don't miss out!

Express Bus | Bus | Taxi | Subway | KTX

Special Benefit

Discount | Exchange | Shopping

How to use

1. Just run the App on boarding!
2. Charge and refund with your credit/debit card
3. Check balance anywhere, anytime!

For more information
www.koreatourcard.kr
한국어, ENGLISH
简体中文, 繁體中文, 日本語

Tmoney

Simple BE-IN BE-OUT Solution that will ease your travel

Tmoney TAGLESS

Future of mobility ticketing has already come in Seoul, South Korea.
Tmoney Tagless presents a barrier-free & seamless journey of everyone's everyday life.

The Benefits

· Improved accessibility/usability of public transportation for the mobility handicapped

Easy Access
Barrier Free

Convenient for Pax handful
Hands Free

Safety as No.1priority
Danger Free

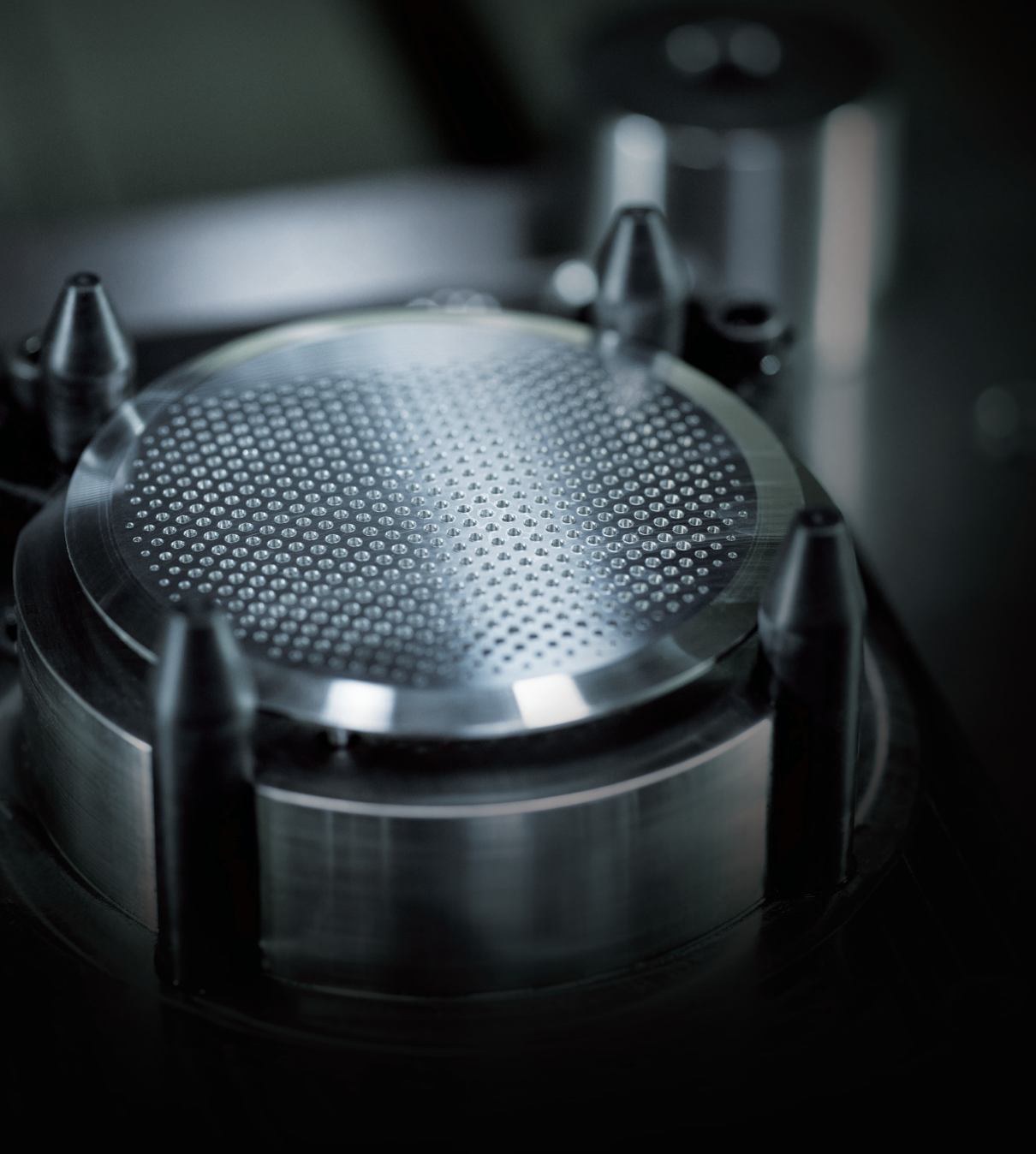
Borderless on and mobile platfroms
Exception Free

· Congestion relief by improved flow within unit time
· Integration with existing infrastructure minimizing additional investment cost

The Results

· The world's first commercialized Tagless transportation ticketing system(2023)
· Confirmed Expansion to major cities such as Seoul, Incheon and Daejeon
· Recognized technology by both users and operators (Patented)
· Awarded by UITP and Transport Ticketing Global in the last two consecutive years (2023, 2024)

Tmoney Tagless
YouTube



BANG & OLUFSEN

최상의 소재로 만들어진 제네시스 GV60 뱅앤올룹슨 사운드 시스템의 알루미늄 스피커 그릴은
하만의 디자인 그룹 휴멘(Huemen)에서 디자인하고 덴마크의 뱅앤올룹슨 팩토리 5에서 생산됩니다.

Next Driving Style,

SOCAR

A contactless car-sharing service that makes a car available to you at any time, for as long as you want.

QR코드를 스캔하고,
대여료 할인 혜택 받으세요!

Governance Realtime Intelligence Platform

정형·반정형·수기 데이터의 다양한 형태의 데이터
통합 기술 적용 실시간 모니터링과 **시각화**를 통한
선제적 대응 콘텐츠 제공 **인터랙티브하고 직관적인**
UI/UX 구축 및 ICT융복합 접목 기술 공급

YD&S
(주)와이디엔에스

YD&S GRIP의 핵심 가치
데이터 그 이상의 가치, GRIP으로 잡으십시오.

ABOUT GRIP

우리 주위에는
다양한 형태의 수많은 데이터들이 존재합니다.

이러한 데이터들은 하나 하나가 소중하며
우리에게 다양한 시그널들을 보내고 있습니다.
전 세계의 수많은 정부기관과 기업들은
데이터를 분석하고,
보다 빠르게 데이터의 의미를 해석하고,
누구보다 빨리 데이터에 기반하여 의사 결정을
하기 위해 노력하고 있습니다.
㈜ **와이디엔에스**는 데이터의 다양한 유형,
분석 시스템의 품질과 속도, 사용자의 요구에 맞는
인사이트 도출을 위해,
데이터를 새롭게 바라보고, 잠재되어 있던 데이터의 힘을 활용하는
새로운 방법. GRIP과 함께 합니다.

Hankyong National University
Universal Design Center

Hankyong National University Universal Design Center serves to promote universal design and promote its importance to many people.
We are preparing laws and systems for universal design to create a “design world for everyone” suitable for a super-aged society in the future.

한경국립대학교
Hankyong National University

Starting with the first Universal Design Contest in 2006, the 19th contest will be sponsored in 2024.

2019 Jeju International Universal Design Expo Promotion and Operation.

2022 Jeju International Universal Design Expo Promotion and Operation.

Design of the Jeju Fire Safety Experience Center Universal Design Experience Center in 2022.

2023 World Congress for the Disabled Holds Universal Design Seminar.

Universal Design Idea Works Exhibit at the 2023 Fall Conference of the Korean Society of Human Engineering.

Joint Award for Universal Design at the 2023 Fall Conference of the Korean Society of Human Engineering.

Consultation on the Design of Universal Design Facilities in the Showroom of Gwacheon City Corporation in 2023.

In 2023, a seminar on the necessity and role of universal design legislation and preparation for universal design and future society will be held.

2024 Preparation for the 2024 Universal Design Legislation A National Assembly Debate will be held.

IEA 2024 22nd Triennial Congress of the International Ergonomics Association, Universal Design Session.

Hankyong National University Universal Design Center is In the future, we will play a role in creating a design world for everyone through universal design-related legislation and systems, education, certification, advice, and product development.

Director, Universal Design Center
Hankyong National University
Kwag, seong-jun
Professor
e-mail : kwaksj2003@naver.com

The author index is provided in the PDF version of this program book.
We apologize for any inconvenience.