May 28th, Wednesday

OS01	Big Data Collection and Analysis I 14:00-15:30, May 28th Room 206
OS01-01	How Can LTE/5G Cellular Data Address Geographic and Sociodemographic Bias in Household Travel Surveys? Jisu Kim, Ajou University, Republic of Korea
OS01-02	Trip Generation in the Philippines: Analysis of Traditional, Geospatial, and Albased Models Kervin Joshua Lucas, Korea Advanced Institute of Science and Technology (KAIST), Republic of Korea
OS01-03	Selection and Analysis of a Route Choice Model for Metro Systems: Investigating Time-Dependent Variations in Factor Influence Junhee Lee, Korea University, Republic of Korea
OS01-04	Analysis of Public Transportation Trips in Seoul Based on Trip Purpose Inference Jeric Taehyung Kim, Seoul National University, Republic of Korea
OS01-05	Two-Level Traffic Condition And Pattern Recognition Using K-Means Clustering Leen Amireh, Korea Advanced Institute of Science and Technology(KAIST), Republic of Korea

OS02	Automated Driving System I
	14:00-15:30, May 28th Room 103
OS02-01	The Value of Scenario Databases for the Development And Validation of
	Automated Driving Systems
	Olaf Op den Camp, TNO, Netherlands
OS02-02	Imitation Learning-Based Traffic Signal Optimization Using Expert Control Data
	Joonho Park, Ajou University, Republic of Korea
OS02-03	Developing a Risk Recognition System Based on a Large Language Model for Autonomous Driving
	Donggyu Min, Seoul National University, Republic of Korea
OS02-04	Simulation of autonomous vehicle disruption in various road conditions and its impact on traffic efficiency
	Boram Woo, korea transport institute, Republic of Korea
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OS03	Big Data Collection and Analysis II 16:00-17:30, May 28th Room 206
OS03-01	Investigation of Lane-Change Maneuvers in Highway Merging Sections Using Wavelet Transform and Empirical Trajectory Data Seungmin Oh, Korea Advanced Institute of Science and Technology(KAIST),
OS03-02	Republic of Korea Prediction Models for Travel Mode and Trip Purpose Using Operator Networks Kervin Joshua Lucas, Korea Advanced Institute of Science and
OS03-03	Technology(KAIST), Republic of Korea Pedestrian Model Development and Optimization for Subway Station Users Geon Hee Kim, Kyonggi University, Republic of Korea
OS03-04	A Hybrid Calibration Framework for Microscopic Traffic Flow Models Using K-means Clustering and Quantum Optimization Hyeokju Nam, University of Seoul, Republic of Korea

OS04	Automated Driving System II 14:00-15:30, May 28th Room 104
OS04-01	Comparing Dynamic Traffic Flow to Human-Driven Vehicles with Cautious and Aggressive Autonomous Vehicles Behaviour Maftuh Ahnan, University of Science & Technology, KICT School, Indonesia
OS04-02	Study on the Impact of Autonomous Driving Levels and Vehicle Penetration on Traffic Flow and Network Efficiency Minji Cho, Kongju National University, Republic of Korea
OS04-03	Development of Driving Safety Evaluation Framework for Automated Vehicles Based on Urban Roads Youngtaek Lee, Ajou University, Republic of Korea
OS04-04	LiDAR Vs. Stereo Camera in Autonomous Driving: Accuracy and Periodicity in Dynamic Scenarios Junyoung Kim, Korea Advanced Institute of Science and Technology(KAIST), Republic of Korea
OS04-05	Xai-Informed Comparative Safety Performance Assessment of Human Driver Crashes and Automated Vehicle Failures Hyeonseo Kim, korea transport institute, Republic of Korea

May 29th, Thursday

OS05	Smart Transport Infrastructure I
	11:00-12:30, May 29th Room 206
OS05-01	Evaluation of Pedestrian Future Conflict at Non-Signalized Intersections Based on Probabilistic Trajectory Prediction Tengfeng LIN, Korea Advanced Institute Of Science And Technology (KAIST), Republic of Korea
OS05-02	Predicting Downstream Vehicle Movement at Smart Intersections Euijin Lee, Seoul National University, Republic of Korea
OS05-03	Beyond the Red and Green: Exploring the Capabilities of Smart Traffic Lights in Malaysia. Ir. Mohd Fairuz Muhamad Mamat, Government, Malaysia
OS05-04	A Luminance-Based Lane Infrastructure Quality Assessment System for Smart Cities Pathum Rathnayaka, U1 Geographic Information System, Republic of Korea
OS05-05	Optimizing Dynamic Allocation of Dedicated Lanes for Crowd Movements in Urban Transportation Networks Soyeon Lee, University of Seoul, Republic of Korea
OS06	Sustainable Urban Transport I
OS06	Sustainable Urban Transport I 11:00-12:30. May 29th Room 205
OS06	Sustainable Urban Transport I 11:00-12:30, May 29th Room 205
OS06 OS06-01	·
	11:00-12:30, May 29th Room 205 Developing Machine Learning Models for Predicting Microscopic Emissions From On-Road Vehicles: A Preliminary Study
OS06-01	11:00-12:30, May 29th Room 205 Developing Machine Learning Models for Predicting Microscopic Emissions From On-Road Vehicles: A Preliminary Study Sungmin Kim, Inha University, Republic of Korea Optimizing Highway EV Charging Stations: Hierarchical Approach for Locating and Allocating Fast Chargers
OS06-01 OS06-02	Developing Machine Learning Models for Predicting Microscopic Emissions From On-Road Vehicles: A Preliminary Study Sungmin Kim, Inha University, Republic of Korea Optimizing Highway EV Charging Stations: Hierarchical Approach for Locating and Allocating Fast Chargers Gimin Roh, Hongik University, Republic of Korea Riding in the Dark: How Built Environment Features Shape Nighttime Cycling Routes in South Korea Raihan Pasha Isheka, Korea Advanced Institute of Science & Technology

Wenxuan Ou, Korea Advanced Institute Of Science And Technology (KAIST), Republic of Korea

OS07	Smart City Solution
	11:00-12:30, May 29th Room 104
OS07-01	A Study on the Calculation and Operation of Signal Systems According to Traffic Congestion Situations Using Digital Twin
	Jiyeong Seo, TOMMs (coporation company), Republic of Korea
OS07-02	The Role of Lidar in the Vehicle-to-Everything (V2X)
	Steven Sheffield, Seyond, United States of America
OS07-03	Development of a Battery Simulator for Electric Vehicle Lifecycle Testing Considering Road and Traffic Conditions
	Dongmin Kim, Korea Advanced Institute of Science and Technology(KAIST), Republic of Korea
OS07-04	Green Mobility Mileage Tracking and Recording Platform in Taiwan Ya-Wen CHEN, University of Taipei, Chinese Taipei

OS08	Automated Driving System III 11:00-12:30, May 29th Room 103
OS08-01	A Study on High-Precision Vehicle Navigation for Autonomous Driving in Ultra- Long Underground Expressway Kyoungsoo Choi, Korea Automotive Technology Institute, Republic of Korea
OS08-02	Optimizing Highway Merging: A Comparative Study of Cooperative and Competitive Automated Vehicle Strategies Joonho Park, Ajou University, Republic of Korea
OS08-03	Operational Design Domain on Autonomous Vehicle Accident Analysis: Machine Learning Using Field Data Boram Woo, korea transport institute, Republic of Korea
OS08-04	Analyzing Crash Clusters in Vehicles Equipped with Advanced Driving Technologies Mahdi Khorasani, Korea Advanced Institute of Science and Technology(KAIST), Republic of Korea

OS09	Smart Transport Infrastructure II
	14:00-15:30, May 29th Room 206
OS09-01	Essential Role of RF Scanning and Tunnel Planning in GPS-Link Installation Wonwoo Lee, Korea Express Way Research Institute, Republic of Korea
OS09-02	Artificial Intelligence in Transport Systems(AITS): Architecture, Design, and Analysis Jihong Bae, Straffic Co., Ltd., Republic of Korea
OS09-03	Development of a Multi-Directional BLE Beacon-Based Radio-Positioning System for Vehicle Navigation in GNSS-Shadow Roads Taekyung Sung, Chungnal National University, Republic of Korea
OS09-04	Development of ADAS Support System Based on Microwave Signal Conversion for Improving Radar Recognition Errors Hojae Kim, Hanyang University, Republic of Korea

OS10	Sustainable Urban Transport II 14:00-15:30, May 29th Room 205
OS10-01	Development of the Resilience Indicators of Metro Systems for Flood Disaster under Climate Change Pei-Yu TSAI, National Cheng Kung University, Chinese Taipei
OS10-02	Standardization Activities for Green ITS Responding to Climate Changes Jeongeun Joo, ITS Korea, Republic of Korea
OS10-03	Travel Characteristics of Public and Private Bicycle Using Big Data Minsong Kim, Hanbat National University, Republic of Korea
OS10-04	Mitigating Transport CO2 Emissions: The Role of Electric Vehicles and Policy Measures Junwook Chi, University of Hawaii at Manoa, United States of America

OS11	New Mobility and Transit Accessibility 14:00-15:30, May 29th Room 104
OS11-01	Vulnerability Assessment of Origin-Destination Pairs for Elderly Subway Users Using Smartcard Data Eunjung Kim, Seoul National University, Republic of Korea
OS11-02	Behavioral Comparisons of Route Choice for Travel Time Attributes on the Metro Network Shinhyung Cho, University of Seoul, Republic of Korea
OS11-03	Understanding Dockless Shared E-Scooter Trip Behavior: A Data-Driven Apporach to Trip Purpose Classification Songmi Paek, Korea Advanced Institute of Science and Technology(KAIST), Republic of Korea
OS11-04	Investigating the Urban Disparities of Air Pollution Exposure During Transit Access by Adopting Spatiotemporal Nonparametric Approaches Youngwoong Kim, University of Seoul, Republic of Korea

OS12	Cooperative and Connected Vehicles 14:00-15:30, May 29th Room 103
OS12-01	Integrating V2X in the Automotive E/E Architecture — A Comparison Between Different Approaches Jan-Karl Ries, Vector Informatik GmbH, Germany
OS12-02	Testing An Autonomous Vehicle On Public Roads – The Turin Case In The Frame Of IN2CCAM European Project Lorenzo Valletta, TTS Italia, Italy
OS12-03	Speed Harmonization Based on Multi-agent Reinforcement Learning under Urban Mixed Traffic Environment Seunghyeon Lee, Seoul National University, Republic of Korea
OS12-04	Augmented Safety Margin: a Metric for Evaluating Perception and Safety in Cooperative Perception Saeyan Eom, Korea Advanced Institute of Science and Technology(KAIST), Republic of Korea
OS12-05	Integrating an Actuated Signal Control Policy with Queue-based Green Light Optimal Speed Advisory (Q-GLOSA) Systems Dohyeon Kim, University of Seoul, Republic of Korea

0513-01	Sihyeon Moon, Ajou University, Republic of Korea
OS13-02	Data Interconnection System for the Development of a Web-Based Standard Compliance Validation Platform Haejong Lee, ITS Korea, Republic of Korea
OS13-03	Application of AI Technology on Expressway Road Surface Monitoring for Automated HPMS Construction Ki Hoon Moon, korea expressway corporation research division, Republic of Korea
OS13-04	Transformer Based Anomaly Detection for Traffic Sensor Malfunctions Sewon Choi, Seoul National University, Republic of Korea
OS14	Sustainable Urban Transport III 16:00-17:30, May 29th Room 205
OS14-01	Exploring Factors Affecting Intercity Travel Mode Choice: Focused on Bus Rapid Transit (BRT) Yumi Jeong, Hanbat National University, Republic of Korea
OS14-02	Modeling the Impact of Smart and Sustainable Transport Strategies in Jakarta, Indonesia: A Focus on Urban Heat Islands and Air Quality Frida Caturima Darojati, Ministry of National Development Planning, Indonesia
OS14-03	A Data-Driven and Simulation Approach for the Safe Integration of Active Mobility Modes Into Singapore's Transport Ecosystem Guangqu Yu, Aimsun Pte Ltd, Singapore
OS14-04	Comparative Analysis of Route Choice Behavior Between Electric and

Big Data Analytics and Platform 16:00-17:30, May 29th | Room 206

OS13

OS15	CAV and Digital Infrastructure
	16:00-17:30, May 29th Room 103
OS15-01	Evaluation of Parking Management Strategies at Expressway Rest Areas in Mixed Traffic Environments Using Multiple Criteria Decision-Making Process Songha Lee, Hanyang University, Republic of Korea
OS15-02	Assessing the Post-Event Congestion Mitigation in a 24-Hour Traffic Scenario Using Simulation of Urban Mobility (SUMO) Junhee Choi, Seoul National University, Republic of Korea
OS15-03	Study of Enhancing Safety Using Intelligent Driver Model with RSS under Incident Situation of Mixed Traffic Flow of AVs and HDVs Sangmin Park, Korea Transport Institute, Republic of Korea
OS15-04	A Comparative Analysis of Mapping-Based Traffic Signal Disambiguation for Autonomous Vehicles Sari Kim, NZERO, Republic of Korea

OS16	Shared Mobility
	16:00-17:30, May 29th Room 101+102
	10.00 17.50, May 25th Nooth 101/102
OS16-01	Analysis of the Relationship Between Slope and Shared PM Travel Distance
	Youngkook Kim, Korea Transport Institute, Republic of Korea
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OS16-02	Empirical Analysis Of Temporary Taxi Business Zone Integration In The Seoul
	Metropolitan Area: Implications For Smart Mobility Policy
	Kunwoo Kim, Kakao Mobility Corp., Republic of Korea
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OS16-03	Modelling Commuter Behaviours with Carpooling Facilities as a Solution for
0310-03	
	Public Transport Connectivity
	Yijia Wen, University of Canterbury, New Zealand
OS16-04	Designing Shared Service Attributes for Maas Monthly Subscription Package
	Sandar Win, Chulalongkorn University, Thailand
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May 30th, Friday

OS17	Future Transport Systems I
	09:00-10:30, May 30th Room 206
OS17-01	Improving Emergency Medical Services in Medically Underserved Areas: RTC Location Selection and UAM-Based Service Area Analysis Seyoung Noh, Hanbat National University, Republic of Korea
OS17-02	A Study on the Solution of Traffic Problems through the Establishment of Innovative New Highway Taejin Park, AICT, Republic of Korea
OS17-03	Simulation Study on the Impact of the E-scooter Assisting Alarm Sensor Hui Zhi Ng, Korea Advanced Institute of Science and Technology(KAIST), Republic of Korea
OS17-04	Development Of Vertiport Location Selection Models For Highway Emergency Patient Transport Changyeob Lee, Korea Aerospace University, Republic of Korea
OS17-05	Development of a Generalized Cost-based Urban Air Mobility Demand Estimation Methodology: Focusing on the Daegu-Gyeongbuk Airport Taewon Bang, Keimyung University, Republic of Korea
OS18	Standardization and Policy 09:00-10:30, May 30th Room 205
OS18 OS18-01	•
	09:00-10:30, May 30th Room 205 A Study on the Analysis of Standards for Supporting Overseas Its Projects And Export
OS18-01	O9:00-10:30, May 30th Room 205 A Study on the Analysis of Standards for Supporting Overseas Its Projects And Export Jieun Choi, ITS KOREA, Republic of Korea Analysis on ITS Standards in Korea
OS18-01 OS18-02	O9:00-10:30, May 30th Room 205 A Study on the Analysis of Standards for Supporting Overseas Its Projects And Export Jieun Choi, ITS KOREA, Republic of Korea Analysis on ITS Standards in Korea Jeongeun Joo, ITS Korea, Republic of Korea Designing Safer Roads for AVs: The Role of Flex Zones, Information Systems, and Dedicated Lanes

OS19	New Safety and Security I 09:00-10:30, May 30th Room 104
OS19-01	Identification of Hazardous Road Spots in Mixed Traffic Based on Integrated Analysis of Driving and Traffic Simulations Hyeonseok JIN, Hanyang University, Republic of Korea
OS19-02	Identification of Traffic Accident Hotspot Based on Raster Data Yongjin Park, University of Seoul, Republic of Korea
OS19-03	Network-Based DUI Risk Assessment: Integrating Route Analysis and Optimized Hotspot Detection Jaeyeong Lee, Korean National Police Agency, Republic of Korea
OS19-04	A Data-Driven Approach for Identifying Pedestrian Accident Hotspots Jooyoung Lee, Hannam University, Republic of Korea
OS20	Emergency Response and Management 09:00-10:30, May 30th Room 103
OS20-01	Influence of Selective Security Check on Heterogeneous Passengers at Metro Stations Lounell Gueta, Hitachi Asia Ltd., Singapore
OS20-02	Development of Proactive Road Management Policy by Means of Advanced Sensing Technology Kihoon Moon, korea expressway corporation research division, Republic of Korea
OS20-03	Streamlining Public Transport Information Management During Service Disruptions Using Integrated Digital Solutions Lauren Strpko, Somar Digital, New Zealand
OS20-04	Group-based Hierarchical Adaptive Traffic Control Systems for an Emergency Vehicle Priority Signal Seulbin Hong, University of seoul, Republic of Korea

	09:00-10:30, May 30th Room 101+102
OS21-01	Enhancing Micromobility Safety: Investigating Drivers' Overtaking Behaviors of Bicycles and E-Scooters under Varying Road Conditions and Cross-Modal Experience Hyunchul Park, Korea Advanced Institute of Science and Technology(KAIST), Republic of Korea
OS21-02	Deciphering Fatal/Severe Pedestrian Injury Crash Frequency at School Zone Crash Hotspots by Integrating Street Perception with Interpretable Machine Learning Kaihan Zhang, Korea Advanced Institute of Science & Technology(KAIST), Republic of Korea
OS21-03	Change in Compliance Rate Before And After Speed Limit Reduction on Urban And Non-Urban Roads Wonbang Song, Korea Expressway Corporation, Republic of Korea
OS21-04	Bi-level Recursive Calibration Approach for Pedestrian Microsopic Behavioral Models with Crowd Density Dynamics Soyeon Lee, University of Seoul, Republic of Korea
OS21-05	Test Level 5 (TI5) Precast Greenguard New Jersey Barriers (Njb): A Sustainable Safety Enhancement for Plus Expressway Ir. Ts. Izman Khairi Ismail, GLC - PLUS Berhad, Malaysia
OS22	Future Transport Systems II
	11:00-12:30, May 30th Room 206
OS22-01	Sustainable Urban Mobility in Smart Cities: Key Factors for Adopting Fuel Cell Electric Buses in Taiwan Yen-Ning Wang, National Cheng Kung University, Chinese Taipei
OS22-02	Traffic Congestion Measurement And Management With Floating Car Data (FCD) Ralf-Peter Schäfer, TomTom Germany GMbH, Germany
OS22-03	Dynamic Route Optimization of Demand-Response Transit Using Real Data with
	Commit Horizons Jeongsik Yun, Konkuk University, Republic of Korea
OS22-04	Commit Horizons

Protection for Pedestrians and Vulnerable Road Users

OS21

Addressing Demand Imbalance

Hyun Su Park, University of Seoul, Republic of Korea

OS23	Policy and Governance 11:00-12:30, May 30th Room 205
OS23-01	Analyzing Regional Extinction Risk Factors and Build Dynamic Simulations Jungyoun Kim, Hanbat National University, Republic of Korea
OS23-02	Barriers And Opportunities for Ev Adoption In New Zealand: Infrastructure, Policy, And Public Perception Narayan Nepal, Yoobee College of Creative Innovation, New Zealand
OS23-03	Millennials and Gen Z's Preferences for Airport Characteristics in Transfer Hubs: A Pilot Study Junyuk Lee, Korea Advanced Institute of Science and Technology(KAIST), Republic of Korea
OS23-04	Identifying the Impacts of New Transit on Commercial Gentrification Using Survival Analysis Geonmin Kim, University of Seoul, Republic of Korea
OS23-05	Unveiling Commuter Satisfaction Patterns Using Clustering Algorithms Eunmo Gu, University of Seoul, Republic of Korea
OS24	New Safety and Security II 11:00-12:30, May 30th Room 104
OS24-01	A Policy Framework for C-ITS: Managing Long-Term and Short-Term Certificates Seung-hwan JU, Autocrypt, Republic of Korea
OS24-02	A Study on Safety Path Search Method Considering Traffic Accident Impedance and ADAS Factors JiHun Han, Kongju University, Republic of Korea
OS24-03	Investigating the Influencing Factors for Accident Duration on Full-Lane-Closure in Freeway Min-Ji Kang, University of Seoul, Republic of Korea
OS24-04	Suicide Attempt Alert System PLUS Berhad Initiative To Save Lives
	Noor Ezwani Binti Nor kamal Nor kamal, GLC - PLUS Berhad, Malaysia

OS25	Al in Mobility 11:00-12:30, May 30th Room 103
OS25-01	Imputing Missing Non-Transit Trips From Incomplete Trip-Chains in Smart Card Data Huichang Lee, Seoul National University, Republic of Korea
OS25-02	Revolutionizing Traffic Management with Ai Technology Karen Cheung, Yunex Pte. Ltd., Singapore
OS25-03	The Potential of Large-Language Models as Regularizers in Deep Generative Models for Population Synthesis Hyunsoo Yun, Seoul National University, Republic of Korea
OS25-04	Deep Kalman Filter-based Dynamic Calibration of Stochastic Multi-lane Cell Transmission Models for Predicting Non-recurrent Congestion Impacts Seungha Lee, University of Seoul, Republic of Korea
OS25-05	Applying Transformer-Based Dynamic-Sequence Techniques to Transit Data Analysis
	Bumjun Choo, Seoul National University, Republic of Korea