May 28th, Wednesday

PS01	**Big Data Collection and Analysis** 13:00-14:30, May 28th | 3F Lobby

PS01-01	Toll Collection System Management Using D.N.A Technology *Jiyeon Lee, Korea Expressway Corporation, Republic of Korea*
PS01-02	Spatiotemporal Nearest-Neighbor Method for Real-Time Travel Speed Prediction *Woojin Kang, Korea Transport Institute, Republic of Korea*
PS01-03	Establishment of Transport Performance Using Toll Collection System Data on Korean Expressway *Yoonhyuk Choi, Korea Expressway Corporation Research Institute, Republic of Korea*
PS01-04	A Study of Highway Performance Evaluation Methodology Using Individual Vehicle Trajectory Data *Donghee Han, Korea Expressway Corporation Research Institute, Republic of Korea*
PS01-05	Generalizable Semantic-aware Road Network Representation Learning *Yonghui Liu, Korea Advanced Institute of Science and Technology(KAIST), Republic of Korea*
PS01-06	Clustering-Based Aggressive Driving Analysis and LLM-Driven Trajectory Generation *Chiwoo Roh, Ajou University, Republic of Korea*
PS01-07	Analysis of Personal Mobility Accidents And App Users: A Data-Driven Study *Jung kim, Korea Advanced Institute of Science and Technology(KAIST), Republic of Korea*

PS02	**Smart Transport Infrastructure** 14:30-16:00, May 28th | 3F Lobby

PS02-01	Design and Build a Simulation Model for Intersection Coordination Based on Wireless Controlling *Putu Diva Ariesthana Sadri, Bali Land Transportation Polytechnic, Indonesia*
PS02-02	Development of GFRP Reinforced Sound Barrier Foundation to Prevent Noise and Deterioration *Moon S. Nam, Korea Expressway Corp., Republic of Korea*

PS02-03   Coception Of Support Measures For The Traffic Of ADAS Vehicles On Expressway
Soohee Kim, Korea Expressway Corporation, Republic of Korea

PS02-04   LiDAR Data-Driven Traffic Metrics Analysis: Density Estimation and Vehicle Trajectory Extraction
Sungeun Cho, Ajou University, Republic of Korea

PS02-05   Active Traffic Demand Management with Real-time Traffic Prediction: A Case Study of Hanyang City Wall
Jaehwan Yang, The Seoul Institute, Republic of Korea

PS02-06   Investigating Latent Heterogeneity in Preferences for Underground Rapid Shared Autonomous Vehicle Service
Sehyun Park, Korea Institute of Civil Engineering and Technology, Republic of Korea

PS02-07   Analyzing the Impact of Network Latency When Integrating Real-Time Vehicle Information in a Virtual Environment
Min Kim, Korea Advanced Institute of Science and Technology(KAIST), Republic of Korea

PS03	Connected and Automated Vehicles
	16:00-17:30, May 28th | 3F Lobby

PS03-01   Analysis of Research Trends in Autonomous Driving Systems Using Network Analysis Methodology
Yongwon Kim, Korea Expressway Corporation, Republic of Korea

PS03-02   Dynamic Assessment of Psychological Burden in Autonomous Vehicle Passengers Using NASA-TLX
Dohyeon Kim, Won Kwang Univ., Republic of Korea

PS03-03   Driving Parameter Optimization for Autonomous Vehicles: Considering Urban Traffic Efficiency and Safety
Gyungtaek Oh, Ajou University, Republic of Korea

PS03-04   Strategic Prioritization of Connected Vehicle Infrastructure Services in Mixed Autonomy Traffic: A Comprehensive Scenario-Based Evaluation
Junhyeong Moon, Advanced Institute of Convergence Technology, Republic of Korea

PS03-05   The Challenging Task of Cooperative Driving Infrastructure Cameras: An Analysis From the Perspective of Functional Safety
Ikhyeon jo, Signtelecom Co., Ltd., Republic of Korea

PS03-06   Enhancing Vehicle Safety at Signalized Intersections Using Offline
            Reinforcement Learning
            *Xiaoyu Shi, Korea Advanced Institute of Science and Technology(KAIST),
            Republic of Korea*

PS03-07   ProSafeAV: Enhancing Proactive Safety Performance of AVs Using World
            Model-Based Reinforcement Learning and Extreme Value Theory
            *Yukai Wang, Korea Advanced Institute of Science and Technology, Republic of
            Korea*

May 29th, Thursday

S04	**Mobility Service Innovation I**
	09:00-10:30, May 29th | 3F Lobby

PS04-01   Real-Time Delay Analysis System for Signalized Intersections Using Video Detectors - Based on the KHCM 2013
Bongil Ko, R&D Center, EasyTraffic Technologies, Republic of Korea

PS04-02   Development of Optimal Traffic Signal Transition Technology After Event Occurrence
Youngung Yu, EasyTraffic Technologies, Republic of Korea

PS04-03   Identifying and Analyzing Factors of Imbalance Zones Based on Spatial Characteristics of Seoul Public Bike-Sharing System
Jihye You, Ajou University, Republic of Korea

PS04-04   Understanding Access Mode Choice Behavior in Mobility Hubs with High-speed Services
Sehyun Park, Korea Institute of Civil Engineering and Technology, Republic of Korea

PS04-05   Efficiency Evaluation of Metropolitan Subway Transfer Stations Focus on Integrated Transfers Between Public Transportation Modes
Eunseo Han, The Seoul Institute, Republic of Korea

PS04-06   Generating Realistic GTFS Data and Public Transit Network Using Smart Card and Bus Information
Jiho Yeo, Gachon University, Republic of Korea

PS04-07   Virtual Capacity Expansion of Stations in Bikesharing System: Potential Role of Single Station-Based Trips
Gyugeun Yoon, Seoul National University, Republic of Korea

PS05 — Mobility Service Innovation II
10:30-12:00, May 29th | 3F Lobby

PS05 01   The Impact of Anthropomorphized Ai Agents' Voice Guidance on User Experience in Autonomous Drt Buses
Yeonbi Jeung, Yonsei university, Republic of Korea

PS05-02   Understanding Mode Choice in Metropolitan Demand-Responsive Transit
Hanghun Jo, Hanyang University, Republic of Korea

PS05-03   Sequential Generation Procedure of Population Synthesis Using Conditional Generative Adversarial Network to Overcome Re-sampling Stage
Donghyun Kwon, Korea Advanced Institute of Science and Technology(KAIST), Republic of Korea

PS05-04   Positional Encoding-Free Transformer for Multi-Object Trajectory Prediction in Roundabout Intersections
Soomok Lee, Ajou University, Republic of Korea

PS05-05   Prioritizing Service Attributes to Enhance Social Acceptance of Urban Air Mobility for Airport Shuttle
Yeongmin Kwon, Incheon International Airport Corporation, Republic of Korea

PS05-06   Understanding Commuters' Willingness to Shift to Transfer-Type Buses Using a Latent Class Model
Hwanseung Lee, Myongji University, Republic of Korea

PS06 — Smart Infrastructure & Mobility Innovation
12:00-13:30, May 29th | 3F Lobby

PS06-01   Stability of Factors Associated with the Efficiency of Integrated Urban Transit Stations Before and During the COVID19 Pandemic
Reuben Tamakloe, KAIST, Republic of Korea

PS06-02   Development of High-Speed Rail Demand Forecasting Incorporating Multi-Station Access Probabilities
Seoyoung Hong, Myongji University, Republic of Korea

PS06-03   A Study on Real-Time Traffic Optimization Using Kalman Filter-Based Active Lane Control System
Chunkeun Cheon, TOMMs, Republic of Korea

PS06-04   Multi-Camera Pedestrian Full Trajectory Perception Using YOLO, DeepSORT, and Homography Transform
Myeonghyeon Kim, Korea Advanced Institute of Science and Technology(KAIST), Republic of Korea

PS06-05   Compassion in Motion: Cultivating Empathy Among Taxi Drivers - A Travel

Equity Initiative
Shi Ye, Korea Advanced Institute of Science and Technology(KAIST), Republic of Korea

PS06-06   Impacts of High-Speed Commuter Rail on Seoul Metropolitan Mobility: Insights From Smart Card Data Analysis
Suji Kim, Korea Research Institute for Human Settlements, Republic of Korea

PS06-07   Dilemma Zone Behavior Modeling: A Vision-Driven, Probabilistic and Deep Learning Framework for Simulation
Junseok Kim, Korea Advanced Institute of Science and Technology(KAIST), Republic of Korea

PS07	**Traffic Safety Systems** 13:30-15:00, May 29th | 3F Lobby

PS07-01   An Analysis of Factors Affecting the Resue of Smart Safety Services for Intercity Buses in Suwon Using A SEM
Sukhee Kim, Suwon Research Institute, Republic of Korea

PS07-02   Deep Learning-Driven Prediction of Child Pedestrian Trajectories Using TUTR Models
Sungmin Yoo, Ajou University, Republic of Korea

PS07-03   Integrating SUMO and Unity for Realistic Virtual Reality Traffic Simulations
Peter Y Park, Lassonde School of Engineering, York University, Canada

PS07-04   An Analysis of Factors Affecting the Drowsy Driving Behavior
Heyjin Kim, Ajou Univeristy, Republic of Korea

PS07-05   The Impact of Head-Up Display Warnings on Aggressive Driving: Visual and Behavior Insights
Jaehyuck Lim, Korea Advanced Institute of Science and Technology*(KAIST)*, Republic of Korea

PS07-06   AI-Driven Traffic Crash Countermeasure Recommendation Using Deep Neural Networks: A Decision Support Framework for Traffic Safety Engineers
Eunho Lee, Ajou University, Republic of Korea

PS07-07   Development and Effectiveness Analysis of a Secondary Accident Prevention System on Expressway in Korea
Ducknyung Kim, Korea expressway corporation, Republic of Korea

PS08	Safety and Security I
	15:00-16:30, May 29th | 3F Lobby

PS08-01   An Effectiveness Analysis of Traffic Information Guidance System in Tunnel Using Driving Simulator Experiment
Dongju Ka, Korea Expressway Corporation Research Institute, Republic of Korea

PS08-02   Dynamic Analysis of Crash Intervals with Time-Varying Covariates and Road Segment Heterogeneity
Fangzhou Wang, Korea Advanced Institute of Science and Technology(KAIST), China

PS08-03   Design of Rainfall Detection And Response System to Enhance Road User Safety
Kyungsuk Kim, Korea Expressway Corporation, Republic of Korea

PS08-04   Development of Security Detecting Technology Against Encrypted Cyber Threats in ITS/C-ITS Environment
Wonjae Yoon, Korea Expressway Corporation, Republic of Korea

PS08-05   Automatic Classification of Incident Events by Urgency Using HDMAP
Yongjoo Song, Korea Expressway Corporation, Republic of Korea

PS08-06   GIS-based Approach for Road Slope Hazard Assessment and Management
Bumsik Hwang, Korea Expressway Corporation Research Institute, Republic of Korea

PS08-07   A Graph-Theoretic Method for Evaluation of Wildfire Evacuation Vulnerability
Dongju Ka, Korea Expressway Corporation Research Institute, Republic of Korea

May 30th, Friday

PS09	**Safety and Security II**
	09:00-10:30, May 30th | 3F Lobby

PS09-01 A Study on Pedestrian Flow Analysis and Congestion Mitigation in Stations
Seunggeun Shin, kongju national university graduate school, Republic of Korea

PS09-02 Pedestrian-Scooter Interaction and Rider Aggressiveness: A Pilot Survey
Kexin Zhu, Student, Republic of Korea

PS09-03 Enhancing the Safety of Child Pedestrians: Mathematical Process for School Zone Designation
Jinmun Kwon, University of Seoul, Republic of Korea

PS09-04 Fire Suppression System in Electric Vehicle Charging Station
Byungyoung song, HDEC, Republic of Korea

PS09-05 Analysis of the Relationship Between Driving Characteristics and Potential Risk Factors for Traffic Accidents among Elderly Drivers
Seongyu Baek, University of Seoul, Republic of Korea

PS09-06 The Analysis of Public Transport Users' Behavior During Natural and Human-made Disasters Based on Pooled Data
Hwanseung Lee, Myongji University, Republic of Korea

PS09-07 Development of Detection and Prediction Response Technology for BlackIce Using Multi-modal Imaging
Seongin Kang, Korea Expressway Coporation Research Institute, Republic of Korea

PS10	**Policy, Regulation and Governance**
	10:30-12:00, May 30th | 3F Lobby

PS10-01 Study On Bounding Box Standardization For Multi-Dataset Integration
Yukyung Park, Mobility System Institute, Republic of Korea

PS10-02 A Study on the Problems and Improvement Direction of the C-ITS Infrastructure Regal System in Korea
Jinwoo Cho, Korea expressway corp. Research Institute, Republic of Korea

PS10-03 Estimation of Road Traffic Accident Costs in 2023
Taeil Sim, Korea Road Traffic Authority, Republic of Korea

PS10-04 Changes in the Expressway Industry and Policy Directions
Jiho Park, Korea Expressway Corporation Research Institute, Republic of Korea

PS10-05 Forecasting the Demand and Supply of Charter Buses in Korea Using Time Series Analysis Methods
Sungjin Hong, Korea Transport Institute, Republic of Korea

PS10-06 A Study on the Improvement of Performance Management of Expressway Construction
Hyeonjoung Kim, Korea Expressway Corporation Research Institute, Republic of Korea

PS11	**Essential Elements for the ITS Adoption**
	12:00-13:30, May 30th | 3F Lobby

PS11-01 A Safety-Based Traffic Network Equilibrium Model Considering Vehicle Coordination in Mixed Traffic Flow
Huimin Tang, Southwest Jiaotong University, China

PS11-02 How Are Increasing Elderly Drivers Impacting Intersection Traffic? A Simulation-Based Analysis
Hyobeen Park, Kyonggi University, Republic of Korea

PS11-03 Implementation of Smart Traffic Management to Optimize Environmentally Friendly Mobility on the Island of Sumatra (Bandar Lampung and Pekanbaru Cities)
IB Ilham Malik, Sumatra Institute of Technology, Indonesia

PS11-04 A Study on Countermeasures for the Korean Green Classification System for Korea Expressway
Jiho Park, Korea Expressway Corporation Research Institute, Republic of Korea

PS11-05 A Study on the Development and Utilization of Expressway Environmental Index
Hyeonjoung Kim, Korea Expressway Corporation Research Institute, Republic of Korea

PS11-06 Analysis of Interregional Public Transit Vulnerability: A Case Study of South
Jeongran Wee, Korea Transport Institute, Republic of Korea