

# July 6th

## Technical Session 1: Autonomous and Connected Vehicles

Chair: *Hongzhuan Zhao, Guilin University of Electronic Technology*

16:10 – 18:00

Meeting Room 1

Xijiao Hotel

西郊宾馆第一会议室

16:10 – 16:23	A Flexible Strategy for Efficient Merging Maneuvers of Connected Automated Vehicles (#448) <i>Na Chen, Delft University of Technology; Meng Wang, Delft University of Technology; Tom Alkim, Rijkswaterstaat; Bart Van Arem, Delft University of Technology</i>
16:23 – 16:36	Automated vehicle's behavior decision making using deep reinforcement learning and high-fidelity simulation environment (#477) <i>Yingjun Ye, Tongji University; Xiaohui Zhang, 同济大学; Jian SUN*, 同济大学</i>
16:36 – 16:49	Vehicle Acceleration Prediction based on Nonlinear Auto Regressive Models with Exogenous Inputs (#604) <i>Yi Zhang, Tongji University; Ping Sun, Tongji University; Mingyue Liu, Tongji University; Kun Xu, Tongji University</i>
16:49 – 17:02	Modeling Heterogeneous Traffic of Autonomous Vehicles and Regular Vehicles (#46) <i>Yangzexi Liu, Tongji University; Jingqiu Guo, Tongji University; Yibing Wang, Zhejiang University; John Taplin, The University of Western Australia</i>
17:02 – 17:15	Adaptive Estimation of Object Vehicle Position Using Dynamically Calibrated Feature Points On-line (#50) <i>Zhong Cao*, Tsinghua University; Kun Jiang, Tsinghua; Sijia Wang, Tsinghua University; Shichao XIE, Tsinghua University; Zhongyang Xiao, Tsinghua University; Diange yang, Tsinghua University</i>
17:15 – 17:28	Eco-Driving at Successive Signalized Intersections under Partially Connected Vehicles Environment (#80) <i>Xiaotong Xu, Beihang University; Yingrong Lu, Beihang University; Chuan Ding, Beihang University; Guangquan Lu, Beihang University</i>
17:28 – 17:41	Take-over of Control in Highly Automated Vehicles: A Literature Review (#109) <i>Wen Shi, Tsinghua University; Bo Wang, Tsinghua University</i>
17:41 – 17:54	Traffic Information Propagation Mechanism Using Seamless Connectivity Procedure for VCPS (#10) <i>Hongzhuan Zhao, Guilin University of Electronic Technology; Hang Yue, Johns Hopkins Healthcare Llc; Tianlong Gu, Guilin University of Electronic Technology; Wenyong Li, Guilin University of Electronic Technology; Dan Zhou, Guilin University of Electronic Technology</i>

**Technical Session 2: Intelligent and Connected Transportation Systems (ITS)**

Chair: *Li Zhibin, Southeast University*

16:10 – 18:00

Meeting Room 2

Xijiao Hotel

西郊宾馆第二会议室

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16:10 – 16:23	Weather Impact on a Bike Sharing System Based on Machine Learning (#743) <i>Kaixin Cao, Southeast University; Tiejun He, Southeast University</i>
16:23 – 16:36	Employ of Long-Run Equilibrium Relationship in Multivariate Short-Term Traffic Speed Forecasting (#752) <i>Qinghui Nie, Yangzhou University; Yang Zhou, University of Wisconsin-Madison; Jingxin Xia, Southeast University; Shejun Deng, Yangzhou University; Xiaoxuan Chen, University of Wisconsin-Madison</i>
16:36 – 16:49	Drivers' Route Choice Behavior under Pre-Trip Information Systems: A Case Study of Nanjing City (#760) <i>Ling Shen, Southeast University; Tiezhu Li, Southeast University; Man Long, Southeast University; Ningning Song, Jinan Urban Transport Research Center</i>
16:49 – 17:02	A Novel Road Traffic Risk Modeling Approach Based on the Traffic Safety Field Concept (#417) <i>Xunjia Zheng, Tsinghua University; Jiawei Wang, Tsinghua University; Jianqiang Wang, Tsinghua University</i>
17:02 – 17:15	A Car Face Parts Detection Algorithm Based on Faster R-CNN (#640) <i>Zhihao Zhou, Sun Yat-Sen University; Xiyang Li, Sun Yat-Sen University; Mingkai Qiu, Sun Yat-Sen University</i>
17:15 – 17:28	Driver Motion Detection using Online Sequential Learning (#682) <i>Qian Wang, Northwestern Polytechnical University; Yan Yang, Northwestern Polytechnical University; Jingdong Chen, Northwestern Polytechnical University; Yan Yang, Northwestern Polytechnical University; Jibo He, Wichita State University; Hengfen Zuo, Tsinghua University; Wei Zhang, Tsinghua University</i>
17:28 – 17:41	The Research on Sampling Frequency and Minimum Coverage of Probe Vehicle Based on Velocity Estimation (#716) <i>Lan Cheng, Beijing University of Technology; Yangzhou Chen, Beijing University of Technology; Qingyang Xia, Beijing University of Technology; Zhuo Yin, Beijing University of Technology</i>
17:41 – 17:54	Landmark-Based Visual Positioning System for Automatic Guided Vehicle (#534) <i>Bijun Li, Tsinghua University; Mingyao Qi, Tsinghua University; Kai Zhang, Tsinghua University; Bokui Chen, Tsinghua University; Yi Zhang, Tsinghua University; Jun Zhou, National University of Singapore; Lixin Miao, Tsinghua University</i>

**Technical Session 3: Public Transit**Chair: *Ma Xiaolei, Beijing Jiaotong University*

16:10 – 18:00

Meeting Room 3

Xijiao Hotel

西郊宾馆第三会议室

16:10 – 16:23	An Optimization Model for Route Choice of Demand Responsive Connector (#145) <i>Jianan Wang, Southeast University; Wenquan Li, Southeast University; Yunxue Lu, Southeast University; Zhiwen Zhu, Southeast University</i>
16:23 – 16:36	Market Segmentation for Customized Bus in China Using Cluster Analysis (#158) <i>Yuxuan Wang, Southeast University; Wei Wang, Southeast University</i>
16:36 – 16:49	Modeling spatial-temporal patterns of bus delays at and between stops using AVL and APC data and semi-Markov techniques (#172) <i>Ying Song, University of Minnesota</i>
16:49 – 17:02	Relationship between Information Quantity of Bicycle Guide Sign and Its Cognition (#186) <i>Hui Peng, Chang'an University; Tingting Shao, Chang'an University; Yan Pei, Chang'an University; Zhanghao Hu, Chang'an University</i>
17:02 – 17:15	The Network Design Model of Customized Buses in Diversified Operation Mode (#819) <i>Zhujie Zhang, South China University of Technology; Yucong Hu, South China University of Technology; Xu Chen, Fuzhou Metro Group Co. Ltd</i>
17:15 – 17:28	Study on Pedestrian Crossing Capacity Models of at Signalized Intersections in Typical Commercial Area (#173) <i>Bing Li, Inner Mongolia University; Jin-Xin Cao, Inner Mongolia University</i>
17:28 – 17:41	Study on Prediction Method of Bicycle Passenger Flow based On Data Information of Mobike (#224) <i>Hui Peng, Chang'an University; Na Zhang, Chang'an University; Jinnan Zheng, Chang'an University; Jingcai Yu, Chang'an University; Tian Ding, Chang'an University</i>
17:41 – 17:54	Study on Railway Passenger Transport Hub and Urban Public Transport Connection-A Case Study of Xi'an North Railway Station (#139) <i>Qi Guo, Chang'an University; Jingshuai Yang, Chang'an University; Qingkai Liu, Chang'an University; Jian Sun, Chang'an University; Pengzi Chu, Chang'an University</i>

<b>Technical Session 4: Rail Operations, Management and Control</b> Chair: Zhanbo Sun*, Southwest Jiaotong University		16:10 – 18:00 Meeting Room 7 Xijiao Hotel 西郊宾馆第七会议室
16:10 – 16:23	Analyzing Capacity Utilization and Travel Patterns of Chinese High-Speed Trains: An Exploratory Data Mining Approach (#208) <i>Fanxiao Liu, Southwest Jiaotong University; Zhanbo Sun*, Southwest Jiaotong University; Peitong Zhang, Southwest Jiaotong University; Qiyuan Peng, Southwest Jiaotong University; Qingjie Qiao, Beijing-Shanghai High Speed Railway Co. Ltd</i>	
16:23 – 16:36	Architecture of Hardware-in-the-Loop Simulation Platform for High-Speed Maglev Operation Control System based on HLA (#250) <i>Yijun Chen, Tongji University; Huahua Zhao, Tongji University; Yi Yu, Tongji University; Wei Nai, Tongji Zhejiang College</i>	
16:36 – 16:49	Battery Charging and Discharging Management Method on High Speed Maglev Train (#522) <i>Zhiming Liao, Tongji University; Jiguang Yue, Tongji University; Huahua Zhao, Tongji University</i>	
16:49 – 17:02	Collaborative Optimization of Stochastic Seat Allocation for Passenger Rail Transportation and Train Formation Scheme (#167) <i>Zhen-Ying Yan, Beijing Jiaotong University; Bao-Ming Han, Beijing Jiaotong University; Xiao-Juan Li, Inner Mongolia University; Ya-Qiong Zhao, Inner Mongolia University</i>	
17:02 – 17:15	Design of the Relative Positioning System for High-Speed Maglev Train Based on the Technology of Electromagnetic Induction and Tooth-slot Counting (#425) <i>Huahua Zhao, Tongji University; Yijun Chen, Tongji University; Zhiming Liao, Tongji University; Yi Yu, Tongji.Edu.Cn</i>	
17:15 – 17:28	Fuzzy Generalized Predictive Control Algorithm of Train Lateral Semi-active Suspension Based on GPC (#447) <i>Guang-Jun Li, Jiangsu University of Technology; Ru-Jia Wang, Jiangsu University of Technology</i>	
17:28 – 17:41	Modeling of Passenger's Time-Space Path Estimation in Urban Rail Transit Network Based on Mobile Signaling (#195) <i>Qin Luo, Shenzhen Technology University; Tao Xu, Shenzhen University; Huazhen Lin, Shenzhen University; Xiongfei Zhang, Shenzhen Technology University;</i>	
17:41 – 17:54	Research on the System Mode Selection of Airport Rail Transit (#283) <i>Yuan Jiang, Tongji University; Xiaohong Chen, Tongji University; Yingyao Qiao, Tongji Architectural Design (Group) Co. Ltd.</i>	

**Technical Session 5: Road Traffic Operations,  
Management, and Control**

Chair: *Yanyan Chen, Beijing University of Technology*

**16:10 – 18:00**

**Meeting Room 8**

**Xijiao Hotel**

**西郊宾馆第八会议室**

16:10 – 16:23	An AHP-based Evaluating Model to Evaluate Intelligent Vehicle Detection Technologies in Street Parking Scenario (#331) <i>Xuejin Wan, Beijing Transportation Information Center; Shangfo Huang, Beihang University; Bowen Du, Beihang University; Rui Sun, Beijing Transportation Information Center; Jiong Wang, Beijing Transportation Information Center; Guangyu Xin, Yunxingyu Technology Ltd</i>
16:23 – 16:36	Analysis of Car Commuter's Travel Time Reliability in Beijing (#368) <i>Jiaxian Li, Beijing University of Technology; Yanyan Chen, Beijing University of Technology; Yang Wang, Beijing University of Technology; Zhixian He, Beijing University of Technology; Zhiling Han, Beijing University of Technology</i>
16:36 – 16:49	How Deterioration and Width of Longitudinal Edgeline Pavement Markings Affect Vehicle Lane Deviation (#52) <i>Kevin Chang*, University of Idaho</i>
16:49 – 17:02	Investigation of Multi-objective Freeway Variable Speed Limit Control Strategies (#285) <i>Huixuan Ye, Fuzhou University; Jie Fang, Fuzhou University; Lili Tu, Fuzhou University; Xiangyu Luo, Fuzhou University</i>
17:02 – 17:15	Method on Arterial Coordination Control of Two Phase Signalized Intersection (#133) <i>Jian Lu, Traffic Management Research Institute of Public Security Ministry; Qiang Fu, Traffic Management Research Institute of Public Security Ministry; Chen Qian, Traffic Management Research Institute of Public Security Ministry; Yong-Chang Zu, Traffic Management Research Institute of Public Security Ministry</i>
17:15 – 17:28	Optimal Parameter Settings for Video Based Real-time Traffic Signal Control (#43) <i>Qiang Fu, Traffic Management Research Institute of The Ministry of Public Security; Jian Lu, Traffic Management Research Institute of The Ministry of Public Security; Jin-Gang Gu, Traffic Management Research Institute of The Ministry of Public Security; Jian-Wei Hu, Traffic Management Research Institute of The Ministry of Public Security; Yong-Chang Zu, Traffic Management Research Institute of The Ministry of Public Security;</i>
17:28 – 17:41	Study on Traffic Demand Management of Urban Freeway based on Dynamic Toll Adjustment (#287) <i>Yinli Jin, Chang'an University; Ming Li, Chang'an University; Li Li, Chang'an University</i>
17:41 – 17:54	Using Long-Short Term Memory Model to Predict the Short-Term Traffic Volume based on Loop Detector Big Data (#69) <i>Xiao-Feng Liu, Tianjin University of Technology and Education; Li-Mei Gao, Tianjin University of Technology and Education; Chen-Fu Liu, Tianjin University of Technology and Education; Hai-Xing Du, Tianjin University of Technology and Education; Xi-Tong Zhang, Tianjin University of Technology and Education;</i>

**Technical Session 6: Traffic Safety, Security and Emergency Responses**

Chair: *Chen Feng, Tongji University*

16:10 – 18:00  
 Meeting Room 11  
 Xijiao Hotel  
 西郊宾馆第十一会议室

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16:10 – 16:25	Analysis of Relationship Between Traffic Crashes and Driving Behavior Factors Using Probe Vehicle Data (#622) <i>Yu Ha Kwon, Keimyung University; Dong Uk Kim, Keimyung University; Oh Hoon Kwon*, Keimyung University; Shin Hyoung Park, Keimyung University</i>
16:25 – 16:40	Estimation of the blocking duration of accidents on highways using the ordered probit model (#553) <i>Se Yeon Kim, Keimyung University; Shin Hyoung Park*, Keimyung University; Oh Hoon Kwon, Keimyung University; Jienki Synn, Keimyung University</i>
16:40 – 16:55	Game Analysis of Pedestrian-vehicle Interactive State on Efficiency at Signalized Intersection (#571) <i>Yu Li*, Chang'an university; guo-hua liang, Chang'an University; Rui Li, Chnag'an University</i>
16:55 – 17:10	Research of Microscopic Traffic Parameters by Fractal Multi-step Prediction Model (#600) <i>Longhai Yang, School of Transportation Science and Engineering Harbin Institute of Technology; Wenchao Ji*, Harbin Institute of Technology; Xiqiao Zhang, Harbin Institute of Technology</i>
17:10 – 17:25	Study on Driver Attention Allocation Under Common Driving Behaviors (#24) <i>Yuan-Yuan Ren, Jilin University; Xian-Sheng Li, Jilin University; Xue-Lian Zheng, Jilin University</i>
17:25 – 17:40	Study on individual driving style based on driving behavior characteristics (#37) <i>Yuan-Yuan Ren, Jilin University; Xian-Sheng Li, Jilin University; Xue-Lian Zheng, Jilin University</i>
17:40 – 17:55	Utilizing Ensemble Learning Methods in Real-time Traffic Crash Prediction (#3) <i>Mengdi Xue, Tongji University; Jie Huang, Tongji University; Zhen Gao, Tongji University; Ping Sun, Tongji University</i>

**Technical Session 7: Traffic Safety, Security and  
Emergency Responses**Chair: *Zeng Qiang, South China University of Technology*

16:10 – 18:00

Meeting Room 12

Xijiao Hotel

西郊宾馆第十二会议室

16:10 – 16:25	Analyzing the Characteristics of Crashes on Freeway Based on Three-phase Traffic Theory (#155) <i>Bo Yang, Southeast University; Pan Liu, Southeast University; Chengcheng Xu, Southeast University</i>
16:25 – 16:40	Driving Risk Evaluation Based on Multi-dimensional Data (#413) <i>Zixuan Gui, Tsinghua University; Hongxin Chen, Tsinghua University; Zi Yang, Tsinghua University; Xin Pei, Tsinghua University; Zuo Zhang, Tsinghua University</i>
16:40 – 16:55	Evaluation of Vehicle-Road Suitability Analysis on Highway by Accident OR Comparison (#526) <i>Shu-Zhan Hou, University of Jinan; Yu-Long He, Beijing University of Technology; Xing-Jian Bao, Xi'an City Planning &amp; Design Institute; Na Cui, University of Jinan</i>
16:55 – 17:10	Latent class analysis of accident risk in telematics-based insurance: Evidence from Beijing (#658) <i>Wen Jin, Tsinghua University; Hai Jiang*, Tsinghua University</i>
17:10 – 17:25	Research on the Effect of Subway Stations Guide Rails on Passenger Emergency Evacuation (#796) <i>Lan Yang, Kunming University of Science and Technology; Min He, Kunming University of Science and Technology; Wenbing Shui, Kunming University of Science and Technology; Yangyang Li, East China Architecture Design and Research Institute Co. Ltd</i>
17:25 – 17:40	The Optimal Location of Advance Guide Signs on Freeway Exits Based on Cellular Automaton (#757) <i>Miao He, Southeast University; Xiangyu Xu, Shanghai Municipal Engineering Design Institute (Group) Co. Ltd; Fei Chen, Southeast University</i>
17:40 – 17:55	Traffic Safety Evaluation Method of Arterial Highway in Suburban Areas based on Traffic Conflicts (#563) <i>Chenxiao Zhang, Southeast University; Yongfeng Ma, Southeast University; Yanan Yu, Southeast University</i>

**Technical Session 8: Traffic Safety, Security and Emergency Responses**

Chair: *Jinshuan Peng\**, *Chongqing Jiaotong University*

16:10 – 18:00  
Meeting Room 15  
Xijiao Hotel  
西郊宾馆第十五会议室

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16:10 – 16:25	Analysis of the Key Factors of Urban Traffic Anomie Behavior (#803) <i>Guo-Hua Liang, Chang'an University; Ge Li, Chang'an University; Xiao-Xia Hu, Chang'an University; Yu-Jie Yin, Chang'an University; Xiao-Hong Liu, Chang'an University</i>
16:25 – 16:40	A Wide-and-Deep Learning Model of Travel Mode Detection (#375) <i>Chenfeng Xiong*, University of Maryland; Di Yang, University of Maryland; Ya Ji, University of Maryland; Liang Tang, University of Maryland; Lei Zhang, University of Maryland</i>
16:40 – 16:55	Adapting the Propensity for Angry Driving Scale for Application in China (#797) <i>Lixin Guo, Southeast University; Wenbing Jing, Southeast University; Yubing Zheng, Southeast University; Yang Ma, Southeast University; Jianchuan Chen, Southeast University</i>
16:55 – 17:10	Experimental Study on Dynamic Visual Search Behavior of Drivers on Mountain Roads (#824) <i>Jinshuan Peng*, Chongqing Jiaotong University; Lei Zhang, CHONGQING JIAOTONG UNIVERSITY; Jin Xu, CHONGQING JIAOTONG UNIVERSITY; Yiming Shao, CHONGQING JIAOTONG UNIVERSITY</i>
17:10 – 17:25	Interactive Effect of Circadian Rhythm and Time on Task on Driver Fatigue Level (#857) <i>Zhe Wang, Wuhan University of Technology; Hui Zhang, Wuhan University of Technology; Qi Zhang, Wuhan University of Technology; Siyao Li, Wuhan University of Technology</i>
17:25 – 17:40	Investigating the Factors influencing Driving Risk Using Driving Experimental Data (#856) <i>Man Yang, Wuhan University of Technology; Chaozhong Wu, Wuhan University of Technology; Wenhui Chu, Wuhan University of Technology; Hui Zhang, Wuhan University of Technology</i>
17:40 – 17:55	Road Marking Crossing Behaviors of Electric Bicycles on Urban Road Sections (#771) <i>Wen-Hui Zhou, Chang'an University; Hui-Ting Cheng, Chang'an University; Yan Li, Chang'an University; Wen-Bin Hu, Ltd of Gansu Road and Bridge Construction Group; Li-Li Wang, Chang'an University</i>



**Technical Session 9: Transportation Energy,  
Environment and Sustainability**

Chair: *Ci Yusheng, Harbin university of Technology*

16:10 – 18:00

Meeting Room 18

Xijiao Hotel

西郊宾馆第十八会议室

16:10 – 16:25	A Predictive Control Method for Automotive Selective Catalytic Reduction Systems (#111) <i>Yao Ma, Ohio State University; Junmin Wang*, Ohio State University</i>
16:25 – 16:40	A Real-time Vehicle Emission Prediction Model for Freeway Segments Based on Trajectory Data (#738) <i>Tu Yu, Southeast University; Wei Wang, Southeast University; Chengcheng Xu, Southeast University</i>
16:40 – 16:55	An Optimization Model of Short Lane at Intersection Based on Vehicle Specific Power (#767) <i>Yalan Hao, Chang'an University; Hong Chen, Chang'an University</i>
16:55 – 17:10	Impacts of Technological Progress, Structural Adjustment on Energy Related Carbon Emissions Intensity in Logistics Industry: Empirical Research on Beijing-Tianjin-Hebei Region (#728) <i>Shi-Qing Zhang, Chang'an University; Wen-Long Zheng, Chang'an University; Jian-Wei Wang, Chang'an University; Jie-Gao, Chang'an University</i>
17:10 – 17:25	Large-Scale Automated Extraction of Built Environment Characteristics Related to Pedestrian Safety at Urban Intersections Based on Internet Open Location-Based Service (#708) <i>Shengxi Luo, Tsinghua University; Yuhuan Zhang, Tsinghua University; Jing Wang, Beijing University of Civil Engineering and Architecture; Huapu Lu, Tsinghua University</i>
17:25 – 17:40	Modeling Industry Compliance and Market Dynamics of the New Energy Vehicle Dual-credit Policy (#469) <i>Shiqi Ou, Oak Ridge National Laboratory; Zhenhong Lin*, Oak Ridge National Laboratory</i>

<b>Technical Session 10: Transportation Policy, Planning and Modeling</b> Chair: LINGXUAN ZHANG*, Southwest Jiaotong University		16:10 – 18:00 Zhongbei Hall Xijiao Hotel 西郊宾馆中北厅
16:10 – 16:23	A Bi-Level Model of Dynamic Lane-Use and Traffic Signal for Intersections (#613) <i>Ying Zeng, Guangzhou Urban Planning &amp; Design Survey Research Institute; Yingying Ma, South China University of Technology</i>	
16:23 – 16:36	Analysis of influence of urban block pattern on traffic performance using simulation techniques (#473) <i>LINGXUAN ZHANG*, Southwest Jiaotong University; Monica Menendez, Swiss Federal Institute of Technology Zurich; Bin Shuai, School of Transportation and Logistics, Southwest Jiaotong University</i>	
16:36 – 16:49	Construction and Application Evaluation of The Highway Intelligent Traffic Management System (#691) <i>Kaifan Dong, Traffic Management Research Institute of Ministry of Public Security; Chunfang Feng, Traffic Management Research Institute of Ministry of Public Security; Xingzhi Qi, Traffic Management Research Institute of Ministry of Public Security; Biao Li, Traffic Management Research Institute of Ministry of Public Security</i>	
16:49 – 17:02	Improving User Equilibrium via Public Service Advertising (#339) <i>Chenlan Wang, Beihang University; Yulan Fu, Beihang University</i>	
17:02 – 17:15	Influence of electronic-docking stations on China's dockless bikesharing programs: Evidence from Beijing (#657) <i>Xiaofang Yang, Tsinghua University; Hai Jiang*, Tsinghua University</i>	
17:15 – 17:28	Multiple Equilibrium Behaviors Considering Human Exposure to Vehicular Emissions (#259) <i>Yu Tan, Southwest Jiaotong University; Zhanbo Sun*, Southwest Jiaotong University; Jie Zhang, Southwest Jiaotong University; Rui Ma, University of California, Davis; Xia Yang, SUNY Polytechnic Institute</i>	
17:28 – 17:41	Research on Thoughts and Countermeasures of Transportation Guide the Development of a New Type of Urbanization (#404) <i>Xianguang Wang, China Academy of Transportation Sciences; Shuo Chen, China Academy of Transportation Sciences</i>	
17:41 – 17:54	Study on the Mode of Lane Changing for Turning in Urban Road (#435) <i>Shiqiang Cheng, Hefei University of Technology; Liyang Wei, Hefei University of Technology; Xuelan Ma, Hefei University of Technology; Jianfeng Shen, Hefei University of Technology; Jian Wang, Hefei University of Technology</i>	

# July 7th

## Technical Session 11: Autonomous and Connected Vehicles

Chair: *Fan Wei, University of North Carolina at Charlotte*

10:10 – 12:00

Meeting Room 1

Xijiao Hotel

西郊宾馆第一会议室

10:10 – 10:23	Autonomous and Connected Vehicles: The capacity of mixed traffic flow at signalized intersection with the ACDA-MTD model (#273) <i>Hanchu Li, Southeast University; Jian Zhang, Southeast University ; Fangfang Zheng, Southwest Jiaotong University; Linchao Li, Southeast University; Bin Ran, Southeast University</i>
10:23 – 10:36	Cellular Automata for Modeling Safety Issues in Mixed Traffic of Conventional and Autonomous Vehicles (#449) <i>Youran Liu, Tsinghua University; Xi Lin, Tsinghua University; Fang He, Tsinghua University; Meng Li, Tsinghua University</i>
10:36 – 10:49	Cooperative Driving Control Algorithm at Non-Signalized Crossings Under Condition of Internet-Connected Vehicles (#855) <i>Wenjuan E, Soochow University; Xiang Wang, Soochow University; Ying Jing, Beihang University; Yanchao Ding, Tsinghua University</i>
10:49 – 11:02	Cooperative Merging in Mixed Traffic Flow (#233) <i>Zhanbo Sun*, Southwest Jiaotong University; Tianyu Huang, Southwest Jiaotong University</i>
11:02 – 11:15	Data Mining and Simulation of Vehicle-pedestrian Crashes for the Evaluation of Collision Avoidance Strategy of Intelligent Vehicle (#197) <i>Quan Yuan*, Tsinghua University; Xunjia Zheng, Tsinghua University; Jianqiang Wang, the State Key Laboratory of Automotive Safety and Energy, Tsinghua University; Yibing Li, Tsinghua University</i>
11:15 – 11:28	Modeling Market Penetration of Fully Automated Vehicles (#629) <i>Zhenhong Lin*, Oak Ridge National Laboratory; Fei Xie, Oak Ridge National Laboratory</i>
11:28 – 11:41	MODELING MERGING BEHAVIOR JOINING A COOPERATIVE ADAPTIVE CRUISE CONTROL PLATOON (#643) <i>jia hu*, Tongji University</i>
11:41 – 11:54	VANETs LTE-V Performance Evaluation Using 3D Geometry-stochastic Channel Model (#430) <i>Yi Gong, Beijing University of Post and Telecommunication; Shengchu Wang, Beijing University of Post and Telecommunication; Yupeng Zhang, Beijing University of Post and Telecommunication; Feng Luo, Beijing University of Post and Telecommunication; Lin Zhang, Beijing University of Post and Telecommunication</i>

**Technical Session 12: Logistics and Freight Transportation**

Chair: *Jingshuai Yang, Chang'an University*

10:10 – 12:00

Meeting Room 2

Xijiao Hotel

西郊宾馆第二会议室

10:10 – 10:25	Forecast and Analysis of Freight Volume in Ningxia Based on GM (1, 1) Model (#264) <i>Wenjie Zheng, Chang'an University; Chaoyue Wen, Chang'an University; Yongmei Xue, Chang'an University; Qichen Wu, Chang'an University;</i>
10:25 – 10:40	Inspection Strategy Design of Toll-Free Logistics Vehicle in China Freeway: Case Study in Shaanxi Province (#225) <i>Yinli Jin, Chang'an University; Wenlei Xiong, Chang 'An University; Li Li, Chang'an University</i>
10:40 – 10:55	Research on Railway Freight Volume Prediction Based on ARIMA Model (#240) <i>Jianyou Zhao, Chang'an University; Jing Cai, Chang'an University; Wenjie Zheng, Chang'an University</i>
10:55 – 11:10	Research on Route Optimization of Pure Electric Vehicle under Joint Distribution Mode in City (#98) <i>Bing-Shan Ma, Chang'an University; Da-Wei Hu, Chang'an University; Qian Sun, Chang'an University</i>
11:10 – 11:25	Simulation Study on Network Stability of Short Cycle Product Supply Chain Based on Netlogo (#170) <i>Jing Nie, Chang'An University; Hui Hu, Chang'An University; Xinying Wang, Chang'An University; Chaoran Xu, Chang'an University</i>
11:25 – 11:40	The Co-integration Analysis of Integrated Freight Transport and Economic Indicators (#545) <i>Ya-Ping Zhang, Harbin Institute of Technology; Yue-E Gao, Harbin Institute of Technology; Jia-Yuan Min, Harbin Institute of Technology; Shou-Ming Qi, Harbin Institute of Technology</i>
11:40 – 11:55	Three-dimensional Packing Problems of Multi-unloading Point based on Hybrid Genetic Simulated Annealing Algorithm (#41) <i>Huifen Cui, Chang'an University; Jiayu Xu, Chang'an University; Teng Ma, Chang'an University; Jingshuai Yang, Chang'an University; Na Liang, Chang'an University;</i>

**Technical Session 13: Public Transit**Chair: *Min Yang, Southeast University*

10:10 – 12:00

Meeting Room 3

Xijiao Hotel

西郊宾馆第三会议室

10:10 – 10:23	A Methodology for Predicting Taxi Development Scale in Small and Medium-sized City (#765) <i>Rui Li, Southeast University; Min Yang, Southeast University; Jiankun Du, Southeast University; Guoqiang Li, Southeast University; Jingxian Wu, Southeast University</i>
10:23 – 10:36	Analysis of Influencing Factors on Satisfaction Degree for Urban Public Transit Service Based on Structural Equation Model (#180) <i>Bing Li, Inner Mongolia University; Jin-Xin Cao, Inner Mongolia University</i>
10:36 – 10:49	Comparing Effective Path Searching Algorithms for Multi-modal Public Transport Super-network (#245) <i>Wei Wang, Southeast University; Lixia Wu, Southeast University; Haoyang Ding, Southeast University; Min Fu, Southeast University</i>
10:49 – 11:02	Examining the Time Use Patterns of Users of Public Bike System in Nanjing based on Smart Card Data (#381) <i>Mingzhuang Hua, Southeast University; Xuewu Chen, Southeast University; Long Cheng, Southeast University; Wendong Chen, Southeast University; Da Lei, Southeast University</i>
11:02 – 11:15	Managing Single-Line Transit Operations with Capacity Constraint and Passenger Arrival Order (#300) <i>Haibo Ma, Tsinghua University; Xi Lin, Tsinghua University; Fang He, Tsinghua University; Meng Li, Tsinghua University</i>
11:15 – 11:28	Route Choice Model for Urban Rail Transit Based on Cumulative Prospect Theory (#228) <i>Jiefei Zhang, Southeast University; Gang Ren, Southeast University; Qi Cao, Southeast University</i>
11:28 – 11:41	Simulation-based Method for Seat Inventory Control Optimization under Heterogeneous Customer Behavior: A Case Study of the China Railway (#319) <i>Wuyang Yuan, Beijing Jiaotong University; Lei Nie, Beijing Jiaotong University; Huiling Fu, Beijing Jiaotong University; Xin Wu, Beijing Jiaotong University; Yu Ke, Beijing Jiaotong University</i>
11:41 – 11:54	Study on Scheduling Model Based on Temporal and Spatial Characteristics of Public Bicycles (#206) <i>Ya Qiong Zhao, Inner Mongolia University; Jin Xin Cao, Inner Mongolia University</i>

**Technical Session 14: Rail Operations, Management and Control**

Chair: *Di Wang, Chang'an University*

10:10 – 12:00

Meeting Room 7

Xijiao Hotel

西郊宾馆第七会议室

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10:10 – 10:22	Analysis of Dynamic Characteristics of Elastic-bending Turnout for Maglev Transportation (#247) <i>Zhiwei Zhu, Tongji University; Feng Ye, Tongji University; Guofeng Zeng, Tongji University; Zhihui Wu, Crc Zhuzhou Locomotive Co. Ltd; Laisheng Tong, Crc Zhuzhou Locomotive Co. Ltd</i>
10:22 – 10:34	Comprehensive Technical Monitoring for Maglev Structure during the Metro Shield Tunnel Undercrossing the Shanghai Maglev Protected Area (#205) <i>Guo-Qiang Wang, Tongji University; Song-Tao Hu, Tongji University; Feng Ye, Tongji University; Guo-Feng Zeng, Tongji University; Qing Lv, Shanghai Maglev Transportation Development Co., Ltd</i>
10:34 – 10:46	Experimental Study and Simulation Analysis of Ultra-Thin Ballastless Track Structure (#187) <i>Ruiying Chen, Shanghai Municipal Engineering Design Institute (Group) Co.Ltd</i>
10:46 – 10:58	Research on Passenger's Characteristics Affecting Subway Station's Security Efficiency (#486) <i>Di Wang, Chang'an University; Jianjun Wang, Chang'an University</i>
10:58 – 11:10	Research on Risk Assessment Model, Method, and Index System of High Speed Maglev System (#555) <i>Guofeng Zeng, Tongji University; Qing Lv, Shanghai Maglev Transportation Development Co., Ltd; Guoqiang Wang, Tongji University</i>
11:10 – 11:22	Study on the Traffic Congestion Index of Urban Rail Transit Stations (#780) <i>Bo Wang, Beijing Transportation Information Center; Chen Li, Beijing University of Technology; Yunyun Bai, Beijing Transportation Information Center; Anan Yang, Beijing University of Technology; Xianglong Liu, China Academy of Transportation Sciences</i>
11:22 – 11:34	The Reliability Analysis of a Metro Network Based on Accessibility (#859) <i>Wei Liu, Shanghai Shentong Metro Group Co. Ltd; Jingjing Chen, Shanghai No.4 Metro Operation Co. Ltd.; Qi Zhang, Technical Center of Shanghai Shentong Metro Group Co. Ltd.</i>
11:34 – 11:46	Trip Path Identification Method of Subway Passengers Based on Phone Signaling Data (#199) <i>Jing Li, Southeast University; Ning Zhang, Intelligent Transportation System Research Center, Southeast University; Zhuangbin Shi, Intelligent Transportation System Research Center, Southeast University; Mengting Lai, Southeast University</i>
11:34 – 11:46	Unplanned "Skip-stop" Decision Support Model for Conventional Routes of Urban Rail Transit (#567) <i>Zhen Niu, Shanghai University of Engineering Science; Zhigang Liu, Shanghai University of Engineering Science; Lin Zhu, Shanghai University of Engineering Science; Jing Guo, Shanghai University of Engineering Science</i>

**Technical Session 15: Road Traffic Operations,  
Management, and Control**Chair: *Hao Wei, Professor, Changsha University of Science & Technology, China*

10:10 – 12:00

Meeting Room 8

Xijiao Hotel

西郊宾馆第八会议室

10:10 – 10:23	Drivers' Adaptability of the Variable Approach-lane at Signalized Intersection (#590) <i>Yanan Yu, Southeast University; Yongfeng Ma, Southeast University; Chenxiao Zhang, Southeast University; Shuyan Chen, Southeast University</i>
10:23 – 10:36	FEASIBILITY ANALYSIS FOR DESIGNING SIGNAL COORDINATION WITHOUT TRAFFIC-COUNT DATA (#671) <i>Aobo Wang*, University of Nevada, Reno; Zong Tian, University of Nevada, Reno</i>
10:36 – 10:49	Requirement Modeling of Simulation Platform for High-Speed Maglev Operation Control System based on Multi-Resolution Modeling (#257) <i>Yijun Chen, Tongji University; Huahua Zhao, Tongji University; Yi Yu, Tongji.Edu.Cn; Wei Nai, Tongji Zhejiang College</i>
10:49 – 11:02	Research on Network Traffic Controller Based on Edge Computing (#258) <i>Xiaoming Liu, North China University of Technology ; Yulin Tian, North China University of Technology ; Shaohu Tang, Beijing Research Center of Urban Systems Engineering; Chunlin Shang, North China University of Technology; Peizhou Yan, North China University of Technology; Lu Wei, North China University of Technology; Wenzhao Chen, North China University of Technology Beijing Key Lab of Urban Road Traffic Intelligent Tech.</i>
11:02 – 11:15	Research on Urban Road Network Operation Characteristics Using Data Fusion among ETC, FCD and DSRC Data (#216) <i>Wenjing Wang, Beijing University of Technology; Yusen Chen, Beijing University of Technology; Yanyan Chen, Beijing University of Technology; Fan Zhang, Rioh</i>
11:15 – 11:28	Study on Pedestrian Crossing Behavior Characteristics at Countdown Signalized Intersections (#487) <i>Mengzhen Wang, Tongji University; Hangfei Lin, Tongji University</i>
11:28 – 11:41	The Optimization Method of Energy Consumption in the Congestion Transportation Network Based on Macroscopic Fundamental Diagram (#161) <i>Heng Ding, Hefei University of Technology; Tao Yang, Hefei University of Technology; Jingwen Zhou, Hefei University of Technology; Xiaoyan Zheng, Hefei University of Technology; and Wenjuan Huang, Hefei University of Technology;</i>
11:41 – 11:54	Traffic Equilibria Considering Travel Time Unreliability Based on Perceived Expected Travel Cost (#457) <i>Junjie Zhang, Beihang University; Yunpeng Wang, Beihang University; Guangquan Lu, Beihang University</i>

**Technical Session 16: Traffic Safety, Security and Emergency Responses**

Chair: *Xu Chengcheng, Associate Professor, Southeast University, China*

10:10 – 12:00  
Meeting Room 11

Xijiao Hotel  
西郊宾馆第十一会议室

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10:10 – 10:23	A Study of Identification Methods of Air Traffic Controllers' Fatigue State Based on Characteristics of Air-ground Communication Speech (#491) <i>Xingjian Zhang, Civil Aviation University of China; Lingling Ma, Civil Aviation Air Traffic Institute, Civil Aviation University of China; Peng Bai, Civil Aviation University of China; Yifei Zhao, Civil Aviation University of China</i>
10:23 – 10:36	Calibration of the Gipps' car-following model using high-altitude video data (#154) <i>Wang Jianjun, Chang'an University; Yongjie Ma*, Chang'an University; Zeng Xun, Chang'an University; Zhang Chenyang, Chang'an University; KAI LUN LI, Chang'an University; Wang Di, Chang'an University</i>
10:36 – 10:49	Hierarchical Control for Ship Navigation under Winds: A Case in the Three Gorges Reservoir Area (#11) <i>Dan Jiang, Chongqing Jiaotong University; Bing Wu, Wuhan University of Technology</i>
10:49 – 11:02	Investigating Severity and Main Weather Factors in Tricycle Crashes in Beijing (#13) <i>Quan Yuan, Tsinghua University; Zihao Liang, Tsinghua University; Wei Hao, Changsha University of Science &amp; Technology; Yibing Li, Tsinghua University</i>
11:02 – 11:15	Investigation of Pedal Operation Characteristics and Drivers' Workload on Sloped Sections of Mountainous Road based on Naturalistic Driving Data (#21) <i>Jin Xu, Chongqing Jiaotong University; Danqi Wang, Chongqing Jiaotong University; Jing Hu, Chongqing Jiaotong University; Yiming Shao, Chongqing Jiaotong University</i>
11:15 – 11:28	Modeling pedestrians red-light running behavior at signalized intersection: Accounting for unobserved heterogeneity (#12) <i>Wu Yao, Southeast University; Yanyong Guo, University of British Columbia; Jian Lu, Southeast University</i>
11:28 – 11:41	Road traffic safety status evaluation model based on matter element extension method (#49) <i>Feng Lu, People's Public Security University of China; Hongliang Wang, People's Public Security University of China</i>
11:41 – 11:54	Traffic Forecast of Multimodal Passenger Transportation Hub Based on Deep Neural Networks (#89) <i>Zi Zhang, Communications Commission of Guangzhou Municipality; Peiqun Lin, South China University of Technology; Chi Wu, Guangzhou Communications Information Construction Investment and Operation Co.Ltd.; Yongwei Lei, South China University of Technology</i>



**Technical Session 17: Transportation Cloud, Data Mining and Applications**Chair: *Xie Kun, University of Canterbury*10:10 – 12:00  
Meeting Room 12Xijiao Hotel  
西郊宾馆第十二会议室

10:10 – 10:25	Floating Population and Resident Population Identification Based on Gaussian Mixture Model Using Origin-Destination Indexes Generated by Cellphone Data (#211) <i>Yang Hong, Southeast University; Bin Ran, Southeast University ; Jian Zhang, Southeast University ; Xinkai Ji, Southeast University; Fan Yang, Southeast University</i>
10:25 – 10:40	A Methodology for Identifying Urban Traffic Corridors Using Big Data of Cell Phone Trajectory (#214) <i>Xinkai Ji, Research Center For Internet of Mobility, School of Transportation, Southeast University; Bin Ran, Research Center For Internet of Mobility, School of Transportation, Southeast University ; Jian Zhang, Research Center For Internet of Mobility, School of Transportation, Southeast University ; Yang Hong, Research Center For Internet of Mobility, School of Transportation, Southeast University; Xiaoli Zhang, Hohai University</i>
10:40 – 10:55	Application of ACA-based Fuzzy C-Means Clustering to Division of Traffic Zones (#190) <i>Yanbin Liu, Cethik Research Institute; Wei Zhi, Cethik Group Corporation Research Institute; Shaodong Wang, Zhejiang University; Xihua Wen, Cethik Research Institute; Hongliang Li, Tsinghua University-Zhiyuan Technology Co.,Ltd Its Joint Randd Center; Weiguo Xu, Tsinghua University-Zhiyuan Technology Co.,Ltd Its Joint Randd Center</i>
10:55 – 11:10	Examining the Reasons for the Low Market Share of Road Passenger Transport Based express using Structural Equation Modeling (#668) <i>Kai Yin, Henan Polytechnic University; Xianghong Li, Henan Polytechnic University; Qiqi Chen, Henan Polytechnic University; Junpeng Lu, Henan Polytechnic University</i>
11:10 – 11:25	Research on Decision-making Factors of Ship's Driving Behavior Based on Grey Relation Entropy Analysis Method (#684) <i>Jie Xue, Wuhan University of Technology; Chaozhong Wu, Wuhan University of Technology; Zhijun Chen, Wuhan University of Technology</i>
11:25 – 11:40	Short-Term Forecasting of Traffic Flow and Speed: A Deep Learning Approach (#123) <i>Lingxiao Zhou, Zhejiang University; Xiqun (Michael) Chen, Zhejiang University</i>
11:40 – 11:55	Study on Residential Travel Behavior based on "Internet +" Information Feedback (#703) <i>Jian Xiong, East China Jiaotong Univerity; Xin Qi, East China Jiaotong Univerity; Mengyu Sun, East China Jiaotong University; Xiaomeng Zhao, East China Jiaotong Univerity; Menglan Jiang, East China Jiaotong Univerity</i>

**Technical Session 18: Transportation Cloud, Data Mining and Applications**

Chair: *Hong Chen, Chang'an University*

10:10 – 12:00  
Meeting Room 15

Xijiao Hotel  
西郊宾馆第十五会议室

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10:10 – 10:25	A Trip Building and Chaining Methodology Using Traffic Surveillance Data (#660) <i>Yun Yue, Tsinghua University; Xin Pei, Tsinghua University; Zi Yang, Tsinghua University; Yongqi Dong, Tsinghua University; Danya Yao, Tsinghua University</i>
10:25 – 10:40	Analysis of the Trip Characteristics of Urban Residents based on Mobile Phone Positioning Data in Nanjing (#826) <i>Qing Wang, Southeast University; Jian Zhang, Southeast University ; Fan Yang, Southeast University ; Shuying Du, Southeast University; Han Zhang, Southeast University</i>
10:40 – 10:55	Can We Use Social Media Data to Predict Trip Purpose? (#704) <i>Yu Cui, University at Buffalo, SUNY; Chuishi Meng, University at Buffalo, SUNY; Qing He*, University at Buffalo, SUNY; Jing Gao, University at Buffalo</i>
10:55 – 11:10	Research on the Adaptive Learning Support System of Air Traffic Control (#479) <i>Peng Bai, Civil Aviation University of China; Xingjian Zhang, Civil Aviation University of China; Fuqing Dai, Civil Aviation University of China; Jie Wang, Civil Aviation University of China; Xi Wang, Civil Aviation University of China</i>
11:10 – 11:25	Strategic 4D Trajectory Deconfliction under Considering of Trajectory Uncertainty (#110) <i>Ying Zhang, Nanjing University of Aeronautics and Astronautics; Mengyu Gao, Nanjing University of Aeronautics and Astronautics; Zhao Yang, Nanjing University of Aeronautics and Astronautics; Wen Tian, Nanjing University of Aeronautics and Astronautics</i>
11:25 – 11:40	The Impact of Energy Consumption, Traffic Emissions and Technological Progress on The SO2 Emissions: A Panel Study of 11 China's Western Provinces (#875) <i>Yan Li, Chang'an University; Hong Chen, Chang'an University</i>
11:40 – 11:55	Traveler Activity Analysis of Typical Buildings Based on Cell Phone Signaling Data (#174) <i>Junyi Ji, Southeast University; Jun Hou, Jiangsu Hongxin System Integration Co. Ltd.; Yang Liu, Southeast University; Zhiyuan Liu, Southeast University</i>

**Technical Session 19: Transportation Policy, Planning and Modeling**Chair: *Peng Chen, Tongji University*10:10 – 12:00  
Meeting Room 18  
Xijiao Hotel  
西郊宾馆第十八会议室

10:10 – 10:23	A Generalized-Random Regret Minimization based Commuters' Mode Choice Model (#23) <i>Lixiao Wang, School of Civil and Architectural Engineering, Xinjiang University ; Wang Xiaoyu, School of Civil and Architectural Engineering, Xinjiang University ; Zhi Zuo, School of Civil and Architectural Engineering, Xinjiang University</i>
10:23 – 10:36	A Lagrangian-based Approach for Reliable User Equilibrium Considering Link Travel Time Variance (#282) <i>Xue Xie, Southeast University; Qixiu Cheng, Southeast University; Aya Selmoune, Southeast University; Bin Lu, Quzhou Highway Authority; Zhiyuan Liu, Southeast University</i>
10:36 – 10:49	Analysis on Parking Characteristics and Sharing Conditions of Appertaining Parking Lot in Urban Typical Combined Land (#104) <i>Jun Chen, School of Transportation, Southeast University ; Yue Liu, School of Transportation, Southeast University; Bin Wang, School of Transportation, Southeast University</i>
10:49 – 11:02	Evaluation of Multimodal Passenger Transportation Hub Service Quality Based on Matter element Analysis Model (#36) <i>Huanhuan Yin, Research Institute of Highway Ministry of Transport; Zhao Zhu, Research Institute of Highway Ministry of Transport; Lu Zhang, Research Institute of Highway Ministry of Transport</i>
11:02 – 11:15	Mixed Traffic Flow Model Considering Curb Parking (#296) <i>Jiezhen Tang, Southeast University; Jian Lu, Southeast University</i>
11:15 – 11:28	Operation Mode Selection Model of PPP Project Construction of Public Parking Lot Based on Analytic Hierarchy Process (#40) <i>Yan Han, Beijing University of Technology; Tiantian Zhang, Beijing University of Technology; Wanying Li, Beijing University of Technology</i>
11:28 – 11:41	Parking Characteristics of Administrative Unit's and Partitioning Method of Berths Shared Space-time Windows (#84) <i>Jun Chen, School of Transportation, Southeast University ; Jun Hao, School of Transportation, Southeast University, Nanjing; Kai Chen, School of Transportation, Southeast University, Nanjing</i>
11:41 – 11:54	The Effect of Transportation Infrastructure on Enterprise's Total Factor Productivity: from the Perspective of Foreign Direct Investment (#302) <i>Dong Yang, China Academy of Transportation Sciences; Yan Wang, University of International Business and Economics</i>

**Technical Session 20: Transportation Policy, Planning and Modeling**

Chair: Kang-Ning Zheng, Beijing Jiaotong University

10:10 – 12:00

Zhongbei Hall

Xijiao Hotel

西郊宾馆中北厅

10:10 – 10:23	An Optimized Artificial Bee Colony Algorithm for the Shortest Path Planning Problem (#689) <i>Jian Zheng, Shenzhen Urban Transport Planning Center; Zhen Zhang, Shenzhen Urban Transport Planning Center</i>
10:23 – 10:36	Analysis of the Dynamic Evolution of Regional Comprehensive Transportation Structure Based on Shift-Share Model (#693) <i>Rui-Fen Sun, Chang'an University; Qun-Qi Wu, Chang'an University; Zhi-Min Peng, Chang'an University</i>
10:36 – 10:49	Analysis of Traffic Characteristics and Comprehensive Transportation Governance in Medium-Sized Cities of Developed Regions (#758) <i>Yaoqing Wang, Southeast University; Xiucheng Guo, Southeast University; Xinyue Lei, Southeast University</i>
10:49 – 11:02	Analysis on the Impact of Floating Parking Fees on Parking Demand (#840) <i>Huanmei Qin, Beijing University of Technology; Yingying Dun, Beijing University of Technology; Jinmeng Zhang, Beijing University of Technology; Xiuhan Yang, Beijing University of Technology</i>
11:02 – 11:15	Countermeasures for the Development of the International Multimodal Transportation under the Construction of The Belt and Road (#759) <i>Hu Zhang, East China University of Political Science and Law</i>
11:15 – 11:28	Exploring Daily Travel Cost Budget Frontier Based on Stochastic Frontier Model (#502) <i>Kang-Ning Zheng, Beijing Jiaotong University; En-Jian Yao, Beijing Jiaotong University; Yong-Sheng Zhang, Beijing Jiaotong University; Long Pan, Beijing Jiaotong University</i>
11:28 – 11:41	Improving Cycling Environment based on Bicyclists' Degree of Satisfaction (#488) <i>Shiyi Zhou, Tongji University; Ying Ni, Tongji University</i>
11:41 – 11:54	Residence-Workplace Spatial Distribution Characteristic Analysis Based on Mobile Phone Data (#869) <i>Shuying Du, Southeast University; Bin Ran, Southeast University; Jian Zhang, Southeast University; Xiao-Kai Shi, Southeast University; Xiao-Li Zhang, Southeast University; Qing Wang, Southeast University</i>

**Technical Session 21: Autonomous and Connected Vehicles**Chair: *Ma Jiaqi, University of Cincinnati*

16:10 – 18:00

Meeting Room 1

Xijiao Hotel

西郊宾馆第一会议室

16:10 – 16:23	A Lane-Changing Trajectory Planning and Assistant Decision-Making Method for Autonomous Vehicle (#540) <i>Zheyu Cui, Beijing University of Posts and Telecommunications; Jianming Hu, Tsinghua University; Hongfei Guan, Chinese Academy of Sciences</i>
16:23 – 16:36	A New Video-based Ego-positioning Method and Its Application on Vehicle Parking Guidance (#685) <i>Xiangmo Zhao, Changan University; haigen MIN, Chang'an University; Zhigang Xu*, Chang'an University; Wei Wang, Inst Commun &amp; Nav</i>
16:36 – 16:49	A Novel Vehicle Platoon Following Controller based on Deep Deterministic Policy Gradient Algorithms (#478) <i>Guan Wang, Tsinghua University; Jianming Hu, Tsinghua University; Yusen Huo, Tsinghua University; Zuo Zhang, Tsinghua University</i>
16:49 – 17:02	Data Alignment Calibration between Camera and LiDAR (#494) <i>Shichao XIE*, Tsinghua University; Kun JIANG, Tsinghua University; Yuanxin ZHONG, Tsinghua University; Diange Yang, Tsinghua University</i>
17:02 – 17:15	Intelligent Connected Vehicle (ICV) Effect Study for Urban Transportation System using Microscopic Simulation (#632) <i>Jingchen Dai, Tsinghua University; Ruimin Li, Tsinghua University</i>
17:15 – 17:28	LEVERAGING SHARED AUTONOMOUS ELECTRIC VEHICLES FOR FIRST/LAST MILE MOBILITY (#619) <i>J Farhan, University of Virginia; T. Donna Chen*, University of Virginia; Zhuoyi Zhang, University of Virginia</i>
17:28 – 17:41	Study on Methods of Traffic Estimation under Connected Vehicles and Manual Vehicles Mixed Environment (#44) <i>Zhiwei Li, Cethik Research Institute; Xihua Wen, Cethik Research Institute; Yanbin Liu, Cethik Research Institute; Yuanhui Cheng, Cethik Research Institute</i>
17:41 – 17:54	Uncertainty Estimation of Location Information under Vehicle-Vehicle Cooperative Control (#456) <i>Junda Zhai, Beihang University; Guangquan Lu, Beihang University</i>

**Technical Session 22: Logistics and Freight Transportation**

Chair: *Jinxian Weng, Shanghai Maritime University*

16:10 – 18:00

Meeting Room 2

Xijiao Hotel

西郊宾馆第二会议室

16:10 – 16:25	An Electric Vehicle Routing Problem with Pickup and Delivery (#96) <i>Qian-Qian Yang, Chang'an University; Dawei Hu, Chang'an University; Hong-Fan Chu, Chang'an University; Chao-Ran Xu, Chang'an University;</i>
16:25 – 16:40	Analysis of Vessel Traffic Characteristics in the Yangtze River Estuary Based on AIS Data (#860) <i>Jinxian Weng, Shanghai Maritime University; Haiyan Zhu, Shanghai Maritime University; Guorong Li, Shanghai Maritime University</i>
16:40 – 16:55	Optimization of Multimodal Transport Route with Mixed Time Windows (#731) <i>Xiaohong Chen, Tongji University; Xiaolong Zhang, Tongji University</i>
16:55 – 17:10	Optimizing the Location-Inventory-Routing Problem for Perishable Products Considering Food Waste and Fuel Consumption (#792) <i>Qian Sun, Chang'an University; Steven Chien, New Jersey Institute of Technology; Da-Wei Hu, Chang'an University; Bing-Shan Ma, Chang'an University</i>
17:10 – 17:25	Research on Logistics Distribution of Urban Public Transport under Intelligent Transportation System (#793) <i>Jinling Huang, Chang'an University; Jingshuai Yang, Chang'an University; Yimeng Wang, Chang'an University; Qingkai Liu, Chang'an University</i>
17:25 – 17:40	The Calculation Model of Freight Quantity Generation from a Survey of Beijing Restaurants (#841) <i>Yuyang Zhou, Beijing University of Technology; Ruxin Xie, Beijing University of Technology; Songtao Tang, Beijing University of Technology; Yanyan Chen, Beijing University of Technology</i>

**Technical Session 23: Public Transit**Chair: *Hongtai Yang, Southwest Jiaotong University*

16:10 – 18:00

Meeting Room 3

Xijiao Hotel

西郊宾馆第三会议室

16:10 – 16:23	A Novel Bus Station Coding Method to Balance the Supply Ability and the Demand Attraction of Public Transit (#451) <i>Yuyang Zhou, Beijing University of Technology; Ruizhi Li, Beijing University of Technology; Jie Xiong, Beijing University of Technology; Lin Yao, Xiamen Transit Research Center; Qianyang Zhao, Beijing University of Technology; Yanyan Chen, Beijing University of Technology</i>
16:23 – 16:36	An Optimized Model of Bus Scheduling Based on Actual Variable Costs (#369) <i>Yinpu Wang, Southeast University; Wei Liu, Southeast University; Chengchuan An, Southeast University; Jingxin Xia, Southeast University</i>
16:36 – 16:49	Effects of Collinear Section Length on Bus Bunching (#834) <i>Xuemei Zhou, Tongji University; Weiwei Fan, Tongji University; Yunlin Shi, Nanjing Institute of City &amp; Transport Planning Co.Ltd.</i>
16:49 – 17:02	Evaluating Public Transit Equity with the Concept of Accessibility (#438) <i>Asif Raza, Wuhan University of Technology; Ming Zhong, Wuhan University of Technology</i>
17:02 – 17:15	Network Optimization of Conventional Public Transit Based on Urban Rail Transit (#298) <i>Mingyang Du, Southeast University; Lin Cheng, Southeast University; Liqiang Huang, Southeast University; Qiang Tu, Southeast University</i>
17:15 – 17:28	Optimization Design of Public Bicycle Rental Point in Qujiang New District of Xi'an (#421) <i>Wei-Jia Dai, Beijing Jiaotong University; En-Jian Yao, Beijing Jiaotong University</i>
17:28 – 17:41	Optimizing Combined Bus service Pattern and Frequencies with Genetic Algorithm (#551) <i>Ziyu Zhou, Southeast University; Zhirui Ye, Southeast University; Yueru Xu, Southeast University</i>
17:41 – 17:54	Passenger Flow Prediction of Urban Public Transport Hubs Based on a Deep Learning Approach: A case study in Changzhou (#291) <i>Te Xu, Southeast University; Min Yang, Southeast University; Jingxian Wu, Southeast University; Da Lei, Southeast University; Yunteng Wu, Southeast University</i>

**Technical Session 24: Rail Operations, Management and Control**

16:10 – 18:00

Meeting Room 7

Xijiao Hotel

Chair: Haozhe Cong, The Ministry of Public Security

西郊宾馆第七会议室

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16:10 – 16:25	A Passenger-Oriented Model for Timetable Rescheduling During the End-of-Service Period: A Case Study of the Beijing Subway Network (#699) <i>Wenkai Xu, Beijing Jiaotong University; Peng Zhao, Beijing Jiaotong University; Liqiao Ning, Beijing Jiaotong University; Heng Wei, University of Cincinnati; Hui Zhang, Shandong Jianzhu University</i>
16:25 – 16:40	An Iterative Adjustment Algorithm for Signal Timing Based on Sampling Trajectory Data (#83) <i>Jiaying Yu, Tsinghua University; Han Jiang, Tsinghua University; Fang He, Tsinghua University; Meng Li, Tsinghua University</i>
16:40 – 16:55	Analysis of Rail Transit Passenger Flow in Nanjing (#791) <i>Xing Zhao, Hohai University; Kang Ji, Hohai University; Ji-Huai Chen, Hohai University; Gang Ren, Southeast University</i>
16:55 – 17:10	Delay Model Revisited Considering Channelized Section Spillover (#92) <i>Hongsheng Qi, Zhejiang University</i>
17:10 – 17:25	Drivers' Perception Towards the Safety of Pedestrians and Cyclists: A Traffic Safety Culture Survey in California (#64) <i>Haozhe Cong, The Ministry of Public Security; Xiaomeng Shi, Southeast University; Julia Griswoldand, University of California Berkeley; Jill Cooper, University of California Berkeley</i>
17:25 – 17:40	Error Analysis of Vehicle Speed Measurement Method Based on Video in Crash Analysis (#78) <i>Tao Chen, Chang'an University; Hongbo Liu, Chang'an University; Biao Gong, 2traffic Management Research Institute of The Ministry of Public Security; Cunyi Yang, The Traffic Science Research Institute of Yunnan Province</i>
17:40 – 17:55	Nonlinear Disturbance Observer based Sliding Mode Controller for Vehicular Traffic Flow (#107) <i>Ruidong Yan, Tsinghua University; Kun Jiang, Tsinghua; Chunlei Yu, Tsinghua University; Diange Yang, Tsinghua University</i>



**Technical Session 25: Road Traffic Operations,  
Management, and Control**Chair: *Yunqiang Xue\**, *East China Jiaotong University*

16:10 – 18:00

Meeting Room 8

Xijiao Hotel

西郊宾馆第八会议室

16:10 – 16:23	A Traffic Signal Control Method Based on Asynchronous Reinforcement Learning (#405) <i>Yusen Huo, Tsinghua University; Jianming Hu, Tsinghua University; Guan Wang, Tsinghua University; Junhan Chen, Tsinghua University</i>
16:23 – 16:36	Improved Fuzzy Clustering Analysis of Urban Road Network (#800) <i>Yunqiang Xue*, East China Jiaotong University; Xue Luowei, East China Jiaotong University</i>
16:36 – 16:49	Influence Factors and Passenger Flow Distribution Characteristics of Lasting Large-Scale Activities: A Case Study of Beijing Garden Expo 2013 (#688) <i>Huimin Qian, Kunming University of Science and Technology; Min He, Kunming University of Science and Technology; Jiancheng Weng, Beijing University of Technology; Chunyan Shuai, Kunming University of Science and Technology</i>
16:49 – 17:02	Optimizing Unit Extension for Fully Actuated Traffic Signal Controls in Intelligent Transportation Systems (#518) <i>Jinchao Wu, Tsinghua University; Kai Zhang, Tsinghua University; Yanqun Jiang, Southwest University of Science and Technology; Bokui Chen, Tsinghua University; Yi Zhang, Tsinghua University; Jun Zhou, National University of Singapore; Jingkai Wang, Kagoshima University; Lixin Miao, Tsinghua University</i>
17:02 – 17:15	Real Time Estimation of Lane-by-Lane Arrival and Departure Profiles at Signalized Intersections with Two Low-angle Cameras (#776) <i>Le Xin, Beijing University of Technology; Yangzhou Chen, Beijing University of Technology; Jiangbi Hu, Beijing University of Technology</i>
17:15 – 17:28	Research and Application on Highway Traffic Index System (#506) <i>Yuan Zheng, Southeast University; Bin Ran, Southeast University; Zhengfeng Lu, Jiangsu Highway Company Limited; Xu Qu, Southeast University; Jian Zhang, Southeast University</i>
17:28 – 17:41	Research on Setting Left-turn Lanes Outside of Straight Lanes (#862) <i>Yan-Li Sun, Shandong University; Ru-Hua Zhang, Shandong University; Xue-Song Gao, Shandong University</i>
17:41 – 17:54	The Time-Space Optimization Dynamic Control of Intersections under the Environment Of Vehicle Infrastructure Integration (#401) <i>Song Yan, Peoples' Public Security University of China; Jun-Li Wang, Peoples' Public Security University of China; Jing-Sheng Wang, People's Public Security University of China; Dan Zhao, Peoples' Public Security University of China</i>

**Technical Session 26: Traffic Safety, Security and  
Emergency Responses**

Chair: *Kun Wang, Hefei University of Technology*

16:10 – 18:00  
Meeting Room 11  
Xijiao Hotel  
西郊宾馆第十一会议室

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16:10 – 16:23	A BPCA Based Missing Value Imputation and Its Impact on Traffic Incident Prediction (#58) <i>Huiping Li, Tsinghua University; Yin Hai Wang, University of Washington; Meng Li, Tsinghua University</i>
16:23 – 16:36	An investigation into driver behavior and driving ability under reduced visibility conditions (#29) <i>Weihua Zhang, Hefei University of Technology; Xuxin Zhang, Hefei University of Technology; Zhongxiang Feng, Hefei University of Technology; Kun Wang, Hefei University of Technology; Zhe Hu, Hefei University of Technology</i>
16:36 – 16:49	Association Rule Analysis of Contributory Factors to Severe Traffic Accidents (#235) <i>Zheng Yao, Southeast University; Wei Deng, Southeast University; Dingxin Wu, Southeast University</i>
16:49 – 17:02	Comprehensive risk discriminant method of regional freeway network and its application (#97) <i>Haifan Cheng, Transportation Planning and Design Institute of Jilin Province; Xiaowei Hu, Harbin Institute of Technology; Wenze Zuo, Harbin Institute of Technology</i>
17:02 – 17:15	Driver's Characteristic of Aggressive Driving Behavior Based on Factor Analysis Method (#372) <i>Jiankun Du, Southeast University; Hao Wang, Southeast University; Rui Li, Southeast University</i>
17:15 – 17:28	Perception and Response Characteristics of Pedestrian-vehicle Traffic Conflict at Unsignalized Intersections under Driving Distraction (#76) <i>Pengyun Zhao, Beihang University; Guangquan Lu, Beihang University; Liming Liang, Beihang University</i>
17:28 – 17:41	Predicting Traffic Hazardous Events based on Naturalistic Driving Data (#196) <i>Ping Sun, Tongji University; Junhao Gao, Tongji University; Hongfei Fan, Tongji University; Xuesong Wang, Tongji University</i>
17:41 – 17:54	The Impacts of Data on Spatial Transferability of Crash Risk Prediction Model (#20) <i>Zhen Gao, Tongji University; Shuyun Yu, Tongji University; Min Wang, Tongji University; Rongjie Yu, Tongji University; Xuesong Wang, Tongji University;</i>

**Technical Session 27: Traffic Safety, Security and  
Emergency Responses**

Chair: *Xuecai Xu, Nanyang Technological University*

16:10 – 18:00  
Meeting Room 12

Xijiao Hotel  
西郊宾馆第十二会议室

16:10 – 16:25	A Vehicle Driving Simulator Based On Virtual Reality (#733) <i>Xiongqing Peng, Southwest Jiaotong University; Hu Su, Southwest Jiaotong University; Zhiqiang Wang, Southwest Jiaotong University; Yang Yu, Southwest Jiaotong University</i>
16:25 – 16:40	Analysis of Urban Metro Accidents Based on Social Media Data (#627) <i>Lei Zhang, Tongji University; Zhengyu Duan, Tongji University; Yu Wang, Tongji University</i>
16:40 – 16:55	Data Fusion of Traffic Flow: a Semiparametric Approach with Density Ration Model (#286) <i>Zheng Zhu*, University of Maryland; Lei Zhang, University of Maryland</i>
16:55 – 17:10	Detection of Safety Features of Drivers based on Image Processing (#755) <i>Haoning Xi, Tsinghua University ; Yi Zhang, Tsinghua - Berkeley Shenzhen Institute ; Yi Zhang, Tsinghua University</i>
17:10 – 17:25	Pedestrian Injury Severity Analysis at Signalized Intersections: A Survival Analysis Based Approach (#717) <i>Xuecai Xu, Nanyang Technological University; Feng Zhu, Nanyang Technological University</i>
17:25 – 17:40	Simulation-based Research on the Comprehensive Indexes for Highway Hypnosis Evaluation (#732) <i>Shu-Yi Wang, Southeast University; Cheng Chen, China Energy Engineering Group Zhejiang Electric Power Design Institute Co. Ltd; Hao Zhou, Southeast University</i>
17:40 – 17:55	Vehicle Trajectory Reconstruction and Home Places Estimation from Monitoring Data (#176) <i>Haiyang Yu, Beihang University; Shuai Yang, Beihang University; Shuai Liu, Beihang University; Yilong Ren, Beihang University</i>

**Technical Session 28: Transportation Energy,  
Environment and Sustainability**

 Chair: *Roopesh Kumar Mehra, Tsinghua University*

16:10 – 18:00

Meeting Room 15

Xijiao Hotel

西郊宾馆第十五会议室

16:10 – 16:25	Analysis on the Logistics Policy Impact of Energy Saving and Emission Reduction: A System Dynamics Approach (#48) <i>Haijun Mao, Southeast University; Changjia Jiang, Southeast University</i>
16:25 – 16:40	Application of Artificial Neural Network (ANN) to Predict the Performance and Emission of Hydrogen Enriched Compressed Natural Gas (HCNG) Engines (#701) <i>Roopesh Kumar Mehra, Tsinghua University; Hao Duan, Tsinghua University; Fanhua Ma, Tsinghua University; Amit Thakur, Dev Bhoomi Group of Institutions</i>
16:40 – 16:55	Comprehensive Evaluation Index System of Urban Green Traffic System (#171) <i>Qiaoming Li, Southwest Jiaotong University</i>
16:55 – 17:10	Dynamic Speed Optimization in the Vicinity of Signalized Intersections during Green Phase (#516) <i>Xia Wu, Changan University; Xiangmo Zhao, Chang'an University; Qi Xin, Chang'an University; Shaowei Yu, Chang'an University; Kang Sun, Chang'an University</i>
17:10 – 17:25	Research on Optimization of Urban Traffic Microcirculation System (#729) <i>Liqiang Huang, Southeast University; Lin Cheng, Southeast University; Mingyang Du, Southeast University</i>
17:25 – 17:40	Study on Energy Demand and CO2 Emission Peak of China's Highway Transport Based on LEAP Model (#120) <i>Yue Chen, Research Institute of Highway Ministry of Transport; Yanchun Yu, Research Institute of Highway Ministry of Transport</i>

**Technical Session 29: Transportation Policy, Planning and Modeling**Chair: *PENGFEEI ZHAO\**, *Beijing University of Technology*

16:10 – 18:00

Meeting Room 18

Xijiao Hotel

西郊宾馆第十八会议室

16:10 – 16:23	A Review of Road Functional Classification Problems (#125) <i>Dongwei Wang, Zhengzhou University; Hui Li, Zhengzhou University; Kai Zhang, Henan Urban Planning Institute &amp; Corporation; Yadan Yan, Zhengzhou University</i>
16:23 – 16:36	Estimation of Social Value of Travel Time Savings Using Willingness-to-pay Method in Nanjing, China (#91) <i>Zhao Yang, Nanjing University of Aeronautics and Astronautics; Ying Zhang, Nanjing University of Aeronautics and Astronautics; Xuelian Bai, Nanjing University of Aeronautics and Astronautics; Di Wu, Nanjing University of Aeronautics and Astronautics</i>
16:36 – 16:49	Illegal Crossing behavior of Pedestrians at signalized intersections in China: A Case Study in Guangzhou (#344) <i>Yingying Ma*, SCUT; Siyuan Lu, SCUT; Chen Wen, SCUT</i>
16:49 – 17:02	Individuals' Activity-Travel Behavior in Travel Demand Models: A Review of Recent Progress (#597) <i>Naznin Sultana Daisy, Dalhousie University; Hugh Millward, Saint Mary's University; Lei Liu, Dalhousie University</i>
17:02 – 17:15	Influence of Built Environment on Simultaneous Decision-making Behavior for School Trips (#234) <i>Jie Yang, Beihang University; Xiaolei Ma, Beihang University; Chuan Ding, Beihang University; Yunpeng Wang, Beihang University</i>
17:15 – 17:28	Link Criticality Analysis Based on Reliable Shortest Path in Network with Correlated Link Travel Times (#254) <i>Dongqin Zhou, Southeast University; Qixiu Cheng, Southeast University; Qinhe An, Southeast University; Bin Lu, Quzhou Highway Authority; Zhiyuan Liu, Southeast University</i>
17:28 – 17:41	Study on Capacity of Bus Lines for Multi-Line Harbor-Style Bus Stop Based on Queuing System (#229) <i>Youbang Dong, Hohai University; Rui Li, Hohai University; Yi Cao, Hohai University; Jingjing Yao, Hohai University</i>
17:41 – 17:54	Study on sharing parking spaces: An agent-based simulation approach (#395) <i>PENGFEEI ZHAO*, Beijing University of Technology; HONGZHI GUAN, Beijing University of Technology; LEI ZHAO, Beijing University of Technology; XIONGBIN WU, Beijing University of Technology; YANG SI, Beijing University of Technology</i>

**Technical Session 30: Transportation Policy, Planning and Modeling**

Chair: *Achim Czerny\**, *Hong Kong Polytechnic University*

16:10 – 18:00

Zhongbei Hall

Xijiao Hotel

西郊宾馆中北厅

16:10 – 16:23	A Congestion Policy Game (#692) <i>Achim Czerny*</i> , <i>Hong Kong Polytechnic University</i> ; <i>Hao Lang</i> , <i>Hong Kong Polytechnic University</i>
16:23 – 16:36	Analysis of Capacity Drop Caused by Transit Lane-Changing Behavior Near Bus Stops (#863) <i>Yi Cao</i> , <i>Hohai University</i> ; <i>Rui Li</i> , <i>Hohai University</i> ; <i>Youbang Dong</i> , <i>Hohai University</i> ; <i>Panpan Ding</i> , <i>Hohai University</i>
16:36 – 16:49	Analysis of Cruising Behavior for Parking: An Agent-based Method (#842) <i>Huanmei Qin</i> , <i>Beijing University of Technology</i> ; <i>Fei Zheng</i> , <i>Beijing University of Technology</i> ; <i>Xiuhan Yang</i> , <i>Beijing University of Technology</i> ; <i>Jianqiang Gao</i> , <i>Beijing New Airport Construction Headquarters</i>
16:49 – 17:02	Analysis of the Keep-Right Rule in Traditional System and Evaluation on Alternative Rules in Intelligent Vehicle-Infrastructure Cooperation Systems (#865) <i>Haoning Xi</i> , <i>Tsinghua University</i> ; <i>Yi Zhang</i> , <i>Tsinghua -- Berkeley Shenzhen Institute</i> ; <i>Yi Zhang</i> , <i>Tsinghua University</i>
17:02 – 17:15	Measuring Connectivity of Multi-Modal Transit Networks with Customized Bus Services: An Activity-Based Approach (#848) <i>Yu Gu</i> , <i>Southeast University</i> ; <i>Xiao Fu</i> , <i>Southeast University</i> ; <i>Zhiyuan Liu</i> , <i>Southeast University</i> ; <i>Bin Lu</i> , <i>Quzhou Highway Authority</i>
17:15 – 17:28	Research and Simulation of Urban Household Joint Activity-travel Decision-making Behavior (#160) <i>Baohong He</i> , <i>Kunming University of Science and Technology</i> ; <i>Miao Guo</i> , <i>Kunming University of Science and Technology</i> ; <i>Xiang Zhang</i> , <i>Kunming University of Science and Technology</i>
17:28 – 17:41	Research on the Ergonomics of Intersection Guiding Signs (#846) <i>Xianglin Yao</i> , <i>Beijing University of Technology</i> ; <i>Xiaohua Zhao</i> , <i>Beijing University of Technology</i> ; <i>Liyang Sui</i> , <i>Beijing Transportation Information Center</i> ; <i>Hao Liu</i> , <i>Beijing Transportation Information Center</i> ; <i>Yuming Heng</i> , <i>Beijing Gong Lian Transportation Hub Construction Management Co. Ltd</i>
17:41 – 17:54	Transit Signal Priority Optimization for Intersection with Far-side Bus Stop (#807) <i>Xin Xue</i> , <i>Hohai University</i> ; <i>Dongqin Yu</i> , <i>Hohai University</i> ; <i>Jihuai Chen</i> , <i>Hohai University</i> ; <i>Hao Gong</i> , <i>Hohai University</i> ; <i>Wen Wang</i> , <i>Hohai University</i>

# July 8th

## Technical Session 31: Autonomous and Connected Vehicles

Chair: *Kaidi Yang, Eth Zurich*

08:00 – 09:50

Meeting Room 2

Xijiao Hotel

西郊宾馆第二会议室

08:00 – 08:13	A Location-Sharing Technology for Traffic Organization at Un-Signalized Intersection (#768) <i>Qinglu Ma, Chongqing Jiaotong University; Qi Zhou, Chongqing Jiaotong University; Min Feng, Chongqing Jiaotong University; Saleem Ullah Lar, Khwaja Fareed University</i>
08:13 – 08:26	A Pseudospectral Strategy for Lane Change Maneuver of Automated Vehicles on the Highway (#667) <i>Kai Liu, Beijing Institute of Technology; Jianwei Gong, Beijing Institute of Technology; Chao Lu, Beijing Institute of Technology; Yu Zhang, Beijing Institute of Technology; Huiyan Chen, Beijing Institute of Technology</i>
08:26 – 08:39	A Tracking Algorithm for a Moving Object in the Image Sequence Based on the Adaptive Threshold (#410) <i>Zhijun Wang, Chifeng College; Jianhua Wang, Bethune Medical College</i>
08:39 – 08:52	An Adaptive Horizon Predictive Control Method for Autonomous Vehicles (#715) <i>Wei Liu, Tsinghua University; Zhiheng Li, Tsinghua University; Li Li, Tsinghua University</i>
08:52 – 09:05	Bi-Modal Automated Highway Lanes: Control Strategy and Evaluation (#634) <i>Kaidi Yang, Eth Zurich; Haitao He, Eth Zurich; Monica Menendez, Swiss Federal Institute of Technology Zurich</i>
09:05 – 09:18	Modified Cell Transmission Model of Traffic Flow via Feed-forward Neural Network (#463) <i>Zhuo Yin, Beijing University of Technology; Yangzhou Chen, Beijing University of Technology; Yuqi Guo, Beijing University of Technology</i>
09:18 – 09:31	Multi Vehicles Cooperative Collision Avoidance Model in VANETs (#873) <i>Haiying Xia*, Research Institute of Highway Ministry Transport; Cheng Zeng, Research Institute of Highway Ministry Transport</i>
09:31 – 09:44	On-board Pedestrian and Cyclist Recognition Using Deep Learning Methods (#858) <i>Wenqiang Chen, Tsinghua University; Hui Xiong, Tsinghua University; Keqiang Li, Tsinghua University; Xiaofei Li, Idriver+ Technologies; Dezhao Zhang, Idriver+ Technologies</i>

**Technical Session 32: Pavement and Materials Engineering, and Highway Construction and Maintenance**

Chair: CHEN ZHANG\*, Research Institute of Highway Ministry of Transport

08:00 – 09:50

Meeting Room 3

Xijiao Hotel

西郊宾馆第三会议室

08:00 – 16:15	Experimental Study on Evaluation Index of Pavement Comfort and Safety (#426) <i>CHEN ZHANG*, Research Institute of Highway Ministry of Transport, National Engineering Research Center of Road Maintenance Technologies/RoadMainT Co., Ltd; PING Wu, China Academy of Transportation Sciences/Beijing University of Technology; CHENG Jia, Jilin Chengke Engineering Testing Co., Ltd.;; YI Ban, Research Institute of Highway Ministry of Transport/National Engineering Research Center of Road Maintenance Technologies/RoadMainT Co., Ltd.; XI Zhang, Beijing University of Technology</i>
08:15 – 16:30	Flexural Behavior of Prestressed Concrete Box Girder Bridges with Corrugated Steel Webs: Review (#135) <i>Hongjiang Li, Research Institute of Highway, Ministry of Transportation</i>
08:30 – 16:45	Pavement Performance Prediction Based on Toll Date: Case Study in Shaanxi Province, China (#398) <i>Yin-Li Jin, Chang'an University; Tong Shen, Chang'An Unniversity; Ye Tang, Chang'an University; Li Li, Chang'an University</i>
08:45 – 09:00	Research on Design and Calculation Method for Highway U-Shape Bridges (#8) <i>Ying Ma, Nanjing Institute of Technology; Wanguang Ge, Transportation Plan Design &amp; Research Institute, Southeast University</i>
09:00 – 09:15	Research on the Optimization for Horizontal Alignment of Interchange Loop Ramp Based on Driving Characteristics (#805) <i>Yingzhi Qi, Southeast University; Fei Chen, Southeast University</i>
09:15 – 09:30	Study on the Highway Bridge Expansion Joints with the Advantage of Damping and Noise Reduction Based on Preventive Maintenance (#376) <i>Chen Zhang, Research Institute of Highway Ministry of Transport/National Engineering Research Center of Road Maintenance Technologies/Roadmaint Co., Ltd.;; Ming Li, Research Institute of Highway Ministry of Transport; Cheng Jia, Jilin Chengke Engineering Testing Co., Ltd.,</i>



**Technical Session 33: Public Transit**Chair: *Xiaoqian Sun, Beihang University*

08:00 – 09:50

Meeting Room 11

Xijiao Hotel

西郊宾馆第十一会议室

08:00 – 08:13	An Investigation of User Satisfaction with Shared Bicycles in Nanjing (#720) <i>Hanchu Li, Southeast University; Jian Zhang, Southeast University ; Jing Li, Southeast University; Zhuangbin Shi, Southeast University</i>
08:13 – 08:26	Analysis of Suburbanites' Travel Behavior Based on Big Data (#549) <i>Xiaozhe Wu, Tsinghua University; Kai Zhang, Tsinghua University; Jinping Guan, Massachusetts Institute of Technology; Bokui Chen, Tsinghua University; Yi Zhang, Tsinghua University; Jun Zhou, National University of Singapore; Lixin Miao, Tsinghua University</i>
08:26 – 08:39	Modeling for the Optimal Network Design of “Many-To-One” Customized Bus System (#382) <i>Jie Zhou, Southeast University; Xin Luan, Southeast University; Wei Deng, Southeast University; Cheng Cui, Shanghai Urban Construction Design &amp; Research Institute (Group) Co. Ltd</i>
08:39 – 08:52	Public Transit based Commuting Travel Time Impact Models (#614) <i>Zhe Liu, Beijing University of Technology; Jiancheng Weng, Beijing University of Technology; Qiang Tu, Beijing University of Technology; Ledian Zhang, Beijing University of Technology</i>
08:52 – 09:05	Research on Custom Bus Fare Systems —Taking Ningbo as an Example (#452) <i>Jie Yu, Beijing University of Technology; Dong Sheng, Ningbo University of Technology; Bian Yang, Beijing University of Technology</i>
09:05 – 09:18	Stochastic Optimization of Uneven Timetables for Single Bus Line Considering Uncertain Passenger Flows and Travel Times (#651) <i>Hui Fu, Guangdong University of Technology; Zhongzhen Xie, Guangdong University of Technology; Yefei Wang, Guangdong University of Technology; Chuan Feng, Guangzhou Communication Information Construction Investment and Operation Co. Ltd.; Dingyuan Zi, Guangdong University of Technology;</i>
09:18 – 09:31	Travel Satisfaction with Public Transport in Xi'an, China : the Influence of Service Attribute, Travel Time Perception and Mood (#589) <i>Zihe Zhang, Chang'an University; Yuanqing Wang, Chang'an University; Yanan Gao, Chang'an University</i>
09:31 – 09:44	Worldwide Subway Systems: Data Extraction, Topology, and Resilience (#645) <i>Xiaoqian Sun, Beihang University; Sebastian Wandelt, Beihang University</i>

**Technical Session 34: Road Traffic Operations, Management, and Control**

Chair: *Chuan-Yun Fu, Southwest Jiaotong University*

08:00 – 09:50

Meeting Room 12

Xijiao Hotel

西郊宾馆第十二会议室

08:00 – 16:15	An Lane Based Dynamic Network Loading Model for Congested Urban Network with Application in Typical Network in China (#153) <i>Xi Lu, China Academy of Transportation Sciences; Peng Xu, Hohai University; Kai Jiang, Hohai University</i>
08:15 – 16:30	Analysis of Congestion Evolution at Four-Leg Signalized Intersections (#866) <i>Yingying Ma, South China University of Technology; Lei Zou, South China University of Technology; Wufeng Xie, Guangzhou Transportation Planning Research Institute; Jianmin Xu, South China University of Technology</i>
08:30 – 16:45	CVIS based Intersection Signal Control Model for Indivisible Platoons (#808) <i>Shu-Yang Dong, Southeast University; Zhang Jian, Southeast University; Tian-Yi Chen, University of Wisconsin – Madison; Han Wang, Southeast University; Bin Ran, Southeast University</i>
08:45 – 09:00	Evaluating the Intervention Effectiveness of New Traffic Regulation on Red-Light Running by Vehicle Type (#177) <i>Chuan-Yun Fu, Southwest Jiaotong University; Yi-Zhou Zhu, South China University of Technology; Bing-Mei Jia, Southwest Jiaotong University; Tao-Rang Xu, Southwest Jiaotong University</i>
09:00 – 09:15	Impacts of Initial Credit Distribution Scheme on Network Congestion Management: Considering Traveler's Cognitive Illusion and Transaction Cost (#112) <i>Fei Han*, chang'an university</i>
09:15 – 09:30	Optimization Model of Signal Timing at Isolated Intersections Based on Stochastic Chance Constrained Programming (#829) <i>Jingrong Chen, Lanzhou Jiaotong University; Yaran Zhang, Lanzhou Jiaotong University; Yuan Bai, Lanzhou Jiaotong University</i>
09:30 – 09:45	Research on Influential Factors of Motorized Vehicle Running Red-Lights Based on Random-Effects Negative Binomial Models (#749) <i>Yan Liu, Southeast University; Wei Wang, Southeast University; Dongya Li, Southeast University</i>

**Technical Session 35: Road Traffic Operations,  
Management, and Control**Chair: *Hong Chen, Chang'an University*

08:00 – 09:50

Meeting Room 15

Xijiao Hotel

西郊宾馆第十五会议室

08:00 – 08:13	An Optimization Model for Minimum Green Time Based on Risk Decision-making at Actuated Signal Intersections (#817) <i>Junxiang Zhang, Lanzhou Jiaotong University; Bin Lv, Lanzhou Jiaotong University; Binbin Hao, Xi'an Traffic Engineering Institute</i>
08:13 – 08:26	Estimating the spatiotemporal impact of traffic incidents: An integer programming approach consistent with the propagation of shockwaves (#543) <i>Hai Jiang*, Tsinghua University; Zhengli Wang, Tsinghua University ; Xin Qi, Tsinghua University</i>
08:26 – 08:39	Modelling Operational Reliability of Urban Arterials Considering Congestion Correlations (#690) <i>Keran Dong, Traffic Management Research Institute of Public Security Ministry; Jiayue Gu, Traffic Management Research Institute of Public Security Ministry; Zhishou Zeng, Traffic Management Research Institute of Public Security Ministry; Keshuang Tang, Tongji University</i>
08:39 – 08:52	Research on Through Lane Base Saturation Flow Rate at Signalized Intersections in Beijing, China (#828) <i>Yi Wang, Beijing University of Technology; Jian Rong, Beijing University of Technology; Chen-Jing Zhou, Beijing University of Civil Engineering and Architecture; Xin Chang, Beijing University of Technology; Zhang-Bin Weng, Beijing University of Technology; An-Kang Zhu, Beijing University of Technology</i>
08:52 – 09:05	Research on Traffic Channelization Optimization of Signalized Intersections Based on the Emission Analysis (#815) <i>Zhizhen Liu, Chang'an University; Hong Chen, Chang'an University</i>
09:05 – 09:18	Simulation Analysis of Green Wave Control on a Short Corridor Based on Non-motor Vehicles and Buses (#864) <i>Zhenyu Mei, Zhejiang Univeristy; Hai Qiu, Zhejaing University; Chi Feng, Zhejiang Univeristy</i>
09:18 – 09:31	Simulation of Racing Chassis Performance Based on ADAMS (#809) <i>Jianyou Zhao, Chang'an University; Chaoyue Wen, Chang'an University; Yongmei Xue, Chang'an University; Qichen Wu, Chang'an University</i>
09:31 – 09:44	Traffic Signal Control Strategy under Adverse Weather Condition (#564) <i>Lun Zhang, Tongji University; Wenwen Zhao, Tongji University; Xiyu Zhang, Tongji University</i>

**Technical Session 36: Road Traffic Operations, Management, and Control**

Chair: *Jin Zhang, Griffith University*

08:00 – 09:50

Meeting Room 18

Xijiao Hotel

西郊宾馆第十八会议室

36

08:00 – 08:13	A Comparative Study of Weather Effects on Black Spot Identification for Motorways and Urban Arterials Roads (#129) <i>Jin Zhang, Griffith University; Xiaobo Qu, University of Technology Sydney; Yadan Yan, Zhengzhou University</i>
08:13 – 08:26	Analysis of Risk Factors Affecting the Severity of Truck-Rollover Crashes in Expressway Ramps by Logistic Regression (#439) <i>Feng Xiao, Southeast University; Shun-Xin Yang, Southeast University; Ting-Ting Gu, Southeast University; Lin Meng, Southeast University</i>
08:26 – 08:39	Deterrent Effects of Disposition of Traffic Fines on Speeding Violations (#481) <i>Young-Hyun Seo, Seoul National University; Eun Hak Lee, Seoul National University; Ho-Suk Shin, Seoul National University; Seung-Young Kho, Seoul National University; Dong-Kyu Kim, Seoul National University</i>
08:39 – 08:52	Identification of Urban Road Waterlogging Using Floating Car Data (#275) <i>Songhua Hu, Tongji University; Jianjun Dai, Shenzhen Urban Transport Planning Center Co., Ltd.; Jiandong Qiu, Shenzhen Urban Transport Planning Center Co., Ltd.; Hangfei Lin, Tongji University</i>
08:52 – 09:05	Research on Crossing Behavior of Non-motorized Vehicles at Signalized Intersections Based on Survival Analysis (#165) <i>Shuhong Ma, Chang'an University; Chuanqi Liu, Chang'an University</i>
09:05 – 09:18	Research on Method of Fatigue Driving Detection (#416) <i>Jianchen Zou, North China University of Technology; Peizhou Yan, North China University of Technology</i>
09:18 – 09:31	Statistical Analysis and Countermeasure Study on Road Transportation Accidents of Hazardous Materials (#189) <i>Xiaoli Ma, Tongji University; Yingying Xing, Tongji University; Yujie Liu, Tongji University; Jian Lu, Tongji University</i>
09:31 – 09:44	Utilizing Multi-Layer Perceptron Neural Network for Crash Risk Prediction based on Full Set of Data (#409) <i>Yi Gao, Tongji University; Zhen Gao, Tongji University; Rongjie Yu, Tongji University; Zhiqing Huang, Tongji University; Jinsong Feng, Tongji University</i>

**Technical Session 37: Intelligent and Connected  
Transportation Systems (ITS)**

Chair: Hai Jiang, Tsinghua University

10:10 – 12:00

Meeting Room 2

Xijiao Hotel

西郊宾馆第二会议室

10:10 – 10:23	A Tree-Based Reoptimization Framework for Solving Traffic Assignment Problem in Rapid Decision Making Applications (#157) <i>Lijuan Zhuge, Beijing Jiaotong University; Wei Li, Beijing Transport Institute; Jifu Guo, Beijing Transport Institute; Kai Xian, Beijing Transport Institute; Xin Wu, Beijing Transport Institute&amp;School of Traffic and Transportation, Beijing Jiaotong University; Xuesong Zhou, Beijing Transport Institute</i>
10:23 – 10:36	Evaluation Method of Traffic Data for Highways (#580) <i>Zhixian He, Beijing University of Technology; Yaqiao Zhai, Beijing Road System Management and Emergency Response Center; Xinghua Shen, Beijing Road System Management and Emergency Response Center; Yubo Zhang, Beijing Road System Management and Emergency Response Center; Zongmin Feng, Beijing Road System Management and Emergency Response Center; Yanyan Chen, Beijing University of Technology</i>
10:36 – 10:49	Identification of Trip Mode Based on Mobile Phone Signaling Data (#253) <i>Zhenbo Lu, Southeast University; Juan Liu, Southeast University; Gai Zhang, Jiangsu Intelligent Transport Technology Limited Company; Yu Zhao, China Mobile Group Jiangsu Co., Ltd.; Nianqi Zhang, China Mobile Group Jiangsu Co., Ltd.</i>
10:49 – 11:02	Joint Estimation of Signal Timings for all Directions of an Intersection Using Low-Frequency GPS Data (#666) <i>Xin Qi, Tsinghua University; Jin Zhou, Tsinghua University; Hai Jiang*, Tsinghua University</i>
11:02 – 11:15	Public Bicycle Choice Behavior of Urban Travelers in China (#294) <i>Jiangling Wu, Shijiazhuang Tiedao University; Shengrui Zhang, Chang'an University; Amit Kumar Singh, Atkins; Zhenjun Zhu, Southeast University; Jun Zeng, Southeast University</i>
11:15 – 11:28	Research on Traffic Signal Dynamic Optimization Model for Urban Intersections based on Connected Vehicles (#353) <i>Pangwei Wang, North China University of Technology; Jun Cheng, North China University of Technology; Haoyuan Ni, North China University of Technology; Yinghong Li, North China University of Technology; Zhang Wei, China Academy of Transportation Sciences; Yilun Jiang, North China University of Technology</i>
11:28 – 11:41	Traffic Flow Prediction Based on Probe Vehicle GPS Traces Considering Temporal and Spatial Correlations (#124) <i>Jingru Yu, Zhejiang University; Shuofeng Wang, Tsinghua University; Li Li, Tsinghua University; Xiqun (Michael) Chen, Zhejiang University</i>
11:41 – 11:54	Traffic Impacts on Environment at Signalized Intersections (#646) <i>Tao He, Beihang University; Xinkai Wu, Beihang University; Guangjun Wang, Beihang University; Guizhen Yu, Beihang University</i>

**Technical Session 38: Public Transit**

Chair: *Jinjun Tang, Central South University*

10:10 – 12:00

Meeting Room 3

Xijiao Hotel

西郊宾馆第三会议室

10:10 – 10:23	A Model to Schedule Demand Responsive Connector (#106) <i>Yunxue Lu, Southeast University; Wenquan Li, Southeast University; Jianan Wang, Southeast University; Zhanlun Zhao, Southeast University</i>
10:23 – 10:36	Bus Travel Time Prediction Based on GPS Data: A Case Study of Nanjing City (#90) <i>Jian Lu, Southeast University; Man Long, Southeast University; Jinzhe Gao, Sunac China Holdings Limited; Lin Zhang, Southeast University</i>
10:36 – 10:49	Dynamic Optimization for Urban Transit Schedule Based on Genetic Algorithm Considering Resource Limitation (#57) <i>Jinjun Tang, Central South University; Yifan Yang, Central South University; Jin Hu, Central South University; Lexiao Li, Central South University; Yiwei Wang, Central South University</i>
10:49 – 11:02	Evaluation of Public Transport Service Level Based on Passenger Psychological Perception Time and Actual Travel Time Difference Analysis (#81) <i>Yachao Liu, School of Transportation, Southeast University; Xing Pei, School of Transportation, Southeast University; Jun Chen, School of Transportation, Southeast University</i>
11:02 – 11:15	Game analysis on the development of shared bicycle in Xi'an (#131) <i>Qingkai Liu, Chang'an University; Jingshuai Yang, Chang'an University; Qi Guo, Chang'an University; Jinling Huang, Chang'an University; Jing Wang, Chang'an University</i>
11:15 – 11:28	Impacts of Bus Stops on Adjacent Non-Motorized Lanes Capacity (#734) <i>Jun Yu, Southeast University; Yujie Li, Southeast University; Lixia Wu, Southeast University; Zhuoqun Sun, Southeast University; Zemian Ke, Southeast University</i>
11:28 – 11:41	Public Transit Priority Development Support System for Small-medium Cities Based on Characteristic Analysis of Resident Trip Selection Behavior (#101) <i>Lin Zhang, Southeast University; Jian Lu, Southeast University; Man Long, Southeast University; Jialin Zhou, Griffith University</i>
11:41 – 11:54	Systematic Study on the Forecasting of Transit Passenger Flow Based on Machine Learning with Multi-Source Data (#126) <i>Dongya Li, Southeast University; Wei Wang, Southeast University; Mingzhang Liang, Southeast University; Yan Liu, Southeast University</i>

**Technical Session 39: Public Transit**Chair: *Xiaoyan Zhu\**, Harbin Institute of Technology

10:10 – 12:00

Meeting Room 11

Xijiao Hotel

西郊宾馆第十一会议室

10:10 – 10:23	Analysis of Chinese Typical Urban Public Transport Network Types and Influencing Factors (#628) <i>Yu Wang, Tongji University; Chuan Chen, Tongji University; Qing Yu, Tongji University</i>
10:23 – 10:36	Analysis of the Use Rate of Transport Modes Influenced by Bike Sharing (#843) <i>Long Cheng, Southeast University; Di Huang, Southeast University; Anish Khadka, Southeast University; Xiaohui Niu, Southeast University; Zhiyuan Liu, Southeast University; Bin Lu, Quzhou Highway Authority</i>
10:36 – 10:49	Comparative Analysis of Travel Mode Choices under the Perspectives of Trip and Trip Chain (#832) <i>Li Tang, Xihua University; Hongyao Deng, Xihua University; Xing Zhao, Xihua University; Xuejun Zhang, Beihang University</i>
10:49 – 11:02	Fuzzy-based Bus Signal Priority Control by Passenger Wait Time (#868) <i>Jiahui Zhao, Southeast University; Mingtao Xu, Southeast University; Zhirui Ye, Southeast University; Qun Chen, Central South University</i>
11:02 – 11:15	Study on Countermeasures of the Development of Public Transport in Small and Mid-sized Cities in China (#698) <i>Guangyuan Du, China Academy of Transportation Science</i>
11:15 – 11:28	Study on Passenger Flow Distribution over Urban Rail Network (#687) <i>Wenxin Qiao, Beijing Jiaotong University; Yunlin Guan, Beijing Jiaotong University; Chunfu Shao, Beijing Jiaotong University</i>
11:28 – 11:41	Study on the behavior model of acceptance of urban public transport information (#789) <i>Xiqiao Zhang, Harbin Institute of Technology; Xiaoyan Zhu*, Harbin Institute of Technology; Longhai Yang, School of Transportation Science and Engineering Harbin Institute of Technology</i>
11:41 – 11:54	Several Key Issues on Operation Management of Urban Rail Transit under UTO Mode (#218) <i>Huazhen Lin, Shenzhen University; Qin Luo, Shenzhen Technology University; Tao Xu, Shenzhen University; Guoru Yao, Operation Headquarters of Shenzhen Metro Group Co., Ltd</i>

**Technical Session 40: Road Traffic Operations, Management, and Control**

Chair: *Chaoran Xu\**, *Chang'an University*

10:10 – 12:00  
Meeting Room 12  
Xijiao Hotel  
西郊宾馆第十二会议室

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10:10 – 10:25	An Adaptive Traffic Signal Control System (ACS-Lite) in Heavily Congested Arterial Traffic: Experiences and Lessons Learned (#272) <i>Zhanbo Sun, Southwest Jiaotong University; Wan Li, University of Washington; Xuegang Ban, University of Washington; Tianyu Huang, Southwest Jiaotong University</i>
10:25 – 10:40	An Algorithm for Vehicle Curve Speed Measurement Based on Video (#116) <i>Tao Chen, Chang'an University; Tao Pu, Chang'an University; Di Wang, The Traffic Science Research Institute of Yunnan Province; Biao Gong, Traffic Management Research Institute of The Ministry of Public Security</i>
10:40 – 10:55	Analysis of Electromagnetic Characteristics and Optimization Research of Long Stator Linear Synchronous Motor on the Maglev Train (#870) <i>Yunqiang Li, Tongji University; Guobin Lin, Tongji University; Zhi-Ming Liao, Tongji University; Xiao-Qing Wang; Tongji University</i>
10:55 – 11:10	Analysis of the Impact of Origin-Destination Distance on Travel Time Reliability under Traffic Incident Conditions (#223) <i>Yinli Jin, Chang'an University; Junya Chen, Chang'an University; Li Li, Chang'an University</i>
11:10 – 11:25	Reliable Shortest Path Guidance in Stochastic Road Networks Using Convolution-Based Path Finding Algorithm (#209) <i>Peng Chen, Beihang University; Rui Tong, Beihang University; Guangquan Lu, Beihang University; Yunpeng Wang, Beihang University</i>
11:25 – 11:40	Research on Xi'an Road Traffic Congestion Optimization (#137) <i>Chaoran Xu*, Chang'an University; Lajun Wang, Chang'an university; Jing Nie, Chang'an University; Xinying Wang, Chang'an University; Sheng Huang, Chang'an University</i>
11:40 – 11:55	Study on Development Measures of Railway Freight Transportation Based on Supply Chain Management (#795) <i>Yin Zhou, China Academy of Railway Sciences</i>



**Technical Session 41: Smart Mobility and Shared Economy**Chair: *Yang Zi, Tsinghua University*

10:10 – 12:00

Meeting Room 15

Xijiao Hotel

西郊宾馆第十五会议室

10:10 – 10:23	Environmental Impacts of Car Sharing (#55) <i>Xin Luan*</i> , School of Transportation, Southeast University; <i>Lin Cheng</i> , Southeast University; <i>Qi Wang</i> , Southeast University
10:23 – 10:36	Forecasting of the Sharing Bike's OD Volume for Large-scale Transportation Networks: A Deep Learning Approach (#845) <i>Shaowei Hua Liu</i> , Southeast University; <i>Jun Hou</i> , Jiangsu Hongxin System Integration Co. Ltd.; <i>Yang Liu</i> , Southeast University; <i>Anish Khadka</i> , Southeast University; <i>Zhiyuan Liu</i> , Southeast University
10:36 – 10:49	Impacts of Advanced National Public Charging Infrastructure on Battery Electric Vehicle Market Adoption (#315) <i>Fei Xie*</i> , Oak Ridge National Laboratory; <i>Zhenhong Lin</i> , Oak Ridge National Laboratory; <i>Yan Zhou</i> , Argonne National Laboratory
10:49 – 11:02	Internet Chauffeured Car Intention: A Model Based on Theory of Planned Behavior (#35) <i>Yaxiang Li</i> , Chang'an University; <i>Yuanqing Wang</i> , Chang'an University
11:02 – 11:15	Multi-Cycle Optimal Taxi Routing with E-hailing (#664) <i>Xinlian Yu</i> , University of Massachusetts Amherst; <i>Song Gao*</i> , University of Massachusetts Amherst; <i>XianBiao Hu</i> , Missouri University of Science and Technology; <i>Hyoshin Park</i> , North Carolina Agricultural and Technical State University
11:15 – 11:28	Research on Vehicle Routing Problem of Shared Bike Rebalancing and Recycling (#113) <i>Hong-Fan Chu</i> , Chang'an University; <i>Da-Wei Hu</i> , Chang'an University; <i>Qian-Qian Yang</i> , Chang'an University
11:28 – 11:41	Revealing Travel Patterns of Sharing-Bikes in a Spatial-Temporal Manner using Non-negative Matrix Factorization Method (#569) <i>Yongqi Dong</i> , Tsinghua University; <i>Zi Yang</i> , Tsinghua University; <i>Yun Yue</i> , Tsinghua University; <i>Xin Pei</i> , Tsinghua University; <i>Zuo Zhang</i> , Tsinghua University
11:41 – 11:54	State-of-the-Art: Opportunities and Challenges of Developing MaaS in China (#785) <i>Xianglong Liu</i> , China Academy of Transportation Sciences; <i>Xiangjing Li</i> , China Academy of Transportation Sciences; <i>Xinzheng Yang</i> , China Academy of Transportation Sciences; <i>Haode Liu</i> , China Academy of Transportation Sciences; <i>Zhongyi Wu</i> , China Academy of Transportation Sciences

**Technical Session 42: Traffic Safety, Security and Emergency Responses**

Chair: *Yingying Ma, South China University of Technology*

10:10 – 12:00  
Meeting Room 18

Xijiao Hotel  
西郊宾馆第十八会议室

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10:10 – 10:23	Analysis and Comparison of Potential Traffic Risks Based on Different Field Data (#356) <i>Dong-Fan Xie, Beijing Jiaotong University; Xiao-Mei Zhao, Beijing Jiaotong University; Qian Li, Beijing Jiaotong University; Rong-Qin Lu, Beijing Jiaotong University; Rui Jiang, Beijing Jiaotong University</i>
10:23 – 10:36	Analysis of Cybersecurity Threats on Connected Vehicles With CACC Based on an Improved Car-following Model (#639) <i>Lei Huang, Beihang University; Xinkai Wu, Beihang University; Hongmao Qin, Beihang University; Pengcheng Wang, Beihang University; Guizhen Yu, Beihang University</i>
10:36 – 10:49	Evaluation of Intrusion Detection Methods for In-vehicle Networks (#672) <i>Haojie Ji, Beihang University; Yunpeng Wang, Beihang University; Guizhen Yu*, Beihang University; xinkai Wu, Beihang university; Hongmao Qin, Beihang University</i>
10:49 – 11:02	Evaluation Method of Taxi Drivers' Stress Level Based on DBQ and MDSI (#542) <i>Weiwei Qi, South China University of Technology; Bin Shen, South China University of Technology; Liang Dong, Tongling Nonferrous Design and Research Institute; Zhexuan Wang, South China University of Technology; Kun Zeng, South China University of Technology</i>
11:02 – 11:15	Modeling Lane Change Gap Acceptance and Duration Using Shanghai Naturalistic Driving Data (#340) <i>Minming Yang, Tongji University; Xuesong Wang, Tongji University</i>
11:15 – 11:28	Optimization Analysis of Urban Road Intersection Based on VISSIM Simulation (#322) <i>Jianyou Zhao, Chang'an University; Yongmei Xue, Chang'an University; Qichen Wu, Chang'an University; Chuang Zhou, Chang'an University; Chaoyue Wen, Chang'an University</i>
11:28 – 11:41	Pedestrian Conflict Yielding Behavior at Uncontrolled Intersections (#320) <i>Yingying Ma, South China University of Technology; Chen Wen, South China University of Technology; Siyuan Lu, South China University of Technology</i>
11:41 – 11:54	Vulnerable Road User Crash Patterns in Orlando (#607) <i>Wei Zhang, Fhwa; Lin Xiao, National Research Council</i>