

July.6

Spotlight Session 1: Opportunities and Challenges in Transportation System Management		14:00 – 15:50
Chair: Xuesong Zhou		Meeting Room 6
		Xijiao Hotel
		西郊宾馆第六会议室
14:00 – 14:25	Relationship between Transportation and Urban Air Pollution Variations <i>Zhongren Peng</i>	
14:25 – 14:50	Adopting New and Emerging Transportation Technologies, Hurdles and Implications <i>Shuming Yan</i>	
14:50 – 15:15	Intersection Control with Autonomous Vehicles Using Game Theory <i>Ping Yi</i>	
15:15 – 15:40	Structured modeling in large-scale dynamic transportation system optimization: A hyper network based framework <i>Xuesong Zhou</i>	

Spotlight Session 2: Infrastructure and Traffic Safety		16:10 – 18:00
Chair: Qing Lu		Meeting Room 6
		Xijiao Hotel
		西郊宾馆第六会议室
16:10 – 16:35	How Deterioration and Width of Longitudinal Edgeline Pavement Markings Affect Vehicle Lane Deviation <i>Kelvin Chang</i>	
16:35 – 17:00	Advancing Usage Based Insurance - A Contextual Driving Risk Modeling and Analysis Approach <i>Xianbiao Hu</i>	
17:00 – 17:25	Human Factors Considerations in Connective Vehicles <i>Yingzi Lin</i>	
17:25 – 17:50	Distresses in bridge approach/departure asphalt pavements and best repair practices <i>Qing Lu</i>	

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Spotlight Session 3: New Data and Techniques for Transportation System Analysis Chair: <i>Heng Wei</i>		08:00 – 09:50 Meeting Room 6 Xijiao Hotel 西郊宾馆第六会议室
08:00 – 08:25	Error Estimation for Networked Sensor Data <i>Yueyue Fan</i>	
08:25 – 08:50	Social Media Data Analysis in Transportation Systems <i>Qing He</i>	
08:50 – 09:15	Detection and tracking of pedestrians and vehicles using roadside LiDAR sensors <i>Hongchao Liu</i>	
09:15 – 09:40	C-Mean Image Segmentation for Extracting Axle-based Vehicle Classification Data <i>Heng Wei</i>	

Spotlight Session 4: Innovation in Multimodal Transportation System Chair: <i>Yu Zhang</i>		10:10 – 12:00 Meeting Room 6 Xijiao Hotel 西郊宾馆第六会议室
10:10 – 10:35	Developing a Systematic Approach to Identifying and Ranking Freeway Bottlenecks Using Vehicle Probe Data <i>Wei Fan</i>	
10:35 – 11:00	A framework for the optimization of terminal airspace operations in Multi-Airport Systems <i>Ke Han</i>	
11:00 – 11:25	Selection and Scheduling of Interrelated Improvements in Transportation Systems <i>Paul Schonfeld</i>	
11:25 – 11:50	Improving Operational Performance of Regional Airport Systems <i>Yu Zhang</i>	

Spotlight Session 5: Advances in Transportation Modeling

Chair: *Haizhong Wang*

14:00 – 15:50

Meeting Room 6

Xijiao Hotel

西郊宾馆第六会议室

14:00 – 14:20	Constrained Optimization and Distributed Computation based Car Following Control of A Mixed Flow Platoon <i>LiLi Du</i>
14:20 – 14:40	Multiclass equilibrium model for mixed traffic of human-driven and autonomous vehicles <i>Sean He</i>
14:40 – 15:00	On the fundamental diagram for freeway traffic <i>Xiaobo Qu</i>
15:00 – 15:20	Percolation Phenomenon in Connected Vehicle Network through a Multi-agent Approach: Mobility Benefits and Market Penetration <i>Haizhong Wangi</i>
15:20 – 15:40	A Hierarchical Framework for Emergency Evacuation Optimization <i>Guohui Zhang</i>

Spotlight Session 6: Operation and Management toward Efficient Transportation

Chair: *Yao-Jan Wu*

16:10 – 18:00

Meeting Room 6

Xijiao Hotel

西郊宾馆第六会议室

16:10 – 16:30	Operational Design for Urban Rail Transit Systems under Oversaturated Traffic: Discrete and Continuous Modelling Approach <i>Xiaopeng Li</i>
16:30 – 16:50	Hardware-in-the-loop Testing for Connected Automated Traffic Systems: Use Cases of Vehicle-to-Vehicle and Vehicle-to-Infrastructure Applications <i>Jiaqi Ma</i>
16:50 – 17:10	Statistical inference of probabilistic origin-destination demand using day-to-day traffic data <i>Zhen Qian</i>
17:10 – 17:30	Planning of Fast-Charging Stations for a Battery Electric Bus System Under Energy Consumption Uncertainty <i>Ziqi Song</i>
17:30 – 17:50	Monitoring Network-Wide Arterial Performance: Practical Approaches and Research Methods <i>Yao-Jan Wu</i>

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Spotlight Session 7: Signal and Roadway Control with New Technologies Chair: <i>Zong Tian</i>		08:00 – 09:50 Meeting Room 6 Xijiao Hotel 西郊宾馆第六会议室
08:00 – 08:20	Traffic Signal Performance Measures <i>Darcy Bullock</i>	
08:20 – 08:40	A Guideline for Pedestrian Timing Accommodation into Signal Coordination <i>Ali Gholami</i>	
08:40 – 09:00	Sharing the Experience of Regional Signal Re-timing Effort using Innovative Approaches and Technology Tools <i>Andrew Jayankura</i>	
09:00 – 09:20	Impact of Reservation-based Roadway Control on Capacity of Automated Vehicle Urban Traffic Systems <i>Aleks Stevanovic</i>	
09:20 – 09:40	Signal Control Strategies for Diverging Diamond Interchanges <i>Zong Tian</i>	

Spotlight Session 8: Improving Mobility with Innovation Chair: <i>Ken Yang</i>		10:10 – 12:00 Meeting Room 6 Xijiao Hotel 西郊宾馆第六会议室
10:10 – 10:35	A Markovian Decision Process Approach to Vacant Taxi Routing with E-Hailing <i>Song Gao</i>	
10:35 – 11:00	Matching Arterial Progression Bands With Origin-Destination Traffic Streams <i>Nathan Gartner</i>	
11:00 – 11:25	Analyzing the effect of casual carpooling in a multimodal network <i>Cathy Liu</i>	
11:25 – 11:50	Arterial Mobility Evaluation Framework for Operations <i>Ken Yang</i>	