

USF Center for Urban Transportation Research - TRB 2020

Sessions: C = Committee, L = Lecture, P = Poster, PRP = Practice Ready Paper, W = Workshop

| Time | Name | Title | Session or Workshop No. | Committee | Type |
|--------------------|--------------------------------------|---|-------------------------|-----------|------|
| Sunday, January 12 | | | | | |
| 9 AM - 12 AM | Lisa Staes | Mitigating Public Transit Areas of Critical Safety Risk | 1039 | AP018T | W |
| 9 AM - 12 AM | Yu Wang | Trajectory-based Traffic Oscillation Analysis and Control Utilizing Connected Autonomous Vehicles | 1029 | AHB00 | W |
| 9 AM - 12 AM | Xiaopeng (Shaw) Li | Modeling and Field Experiments on Lane Changing of an Autonomous Vehicle in Mixed Traffic | 1032 | AHB45 | W |
| 1:30 PM - 4:30 PM | Kristine Williams | Overview: Access Management Manual, 2nd Edition | 1074 | AHB70 | W |
| 1:30 PM - 2:30 PM | Yu Zhang | Issues Around Planning & Implementation | 1074 | Various | W |
| Monday, January 13 | | | | | |
| 8 AM - 9:45 AM | Xiaopeng (Shaw) Li | Network Location and Assignment Design for Cooperation of Multi-Type Fire Vehicles | 1156 | AT015 | P |
| | Saeid Soleimaniamiri | | | | |
| 8 AM - 9:45 AM | Seckin Ozkul | Guidance to Facilitate Implementation of Effective Metropolitan Freight Transportation Strategies | 1157 | AT025 | P |
| 8 AM - 9:45 AM | Xiaopeng (Shaw) Li | Video-based Intelligent Traffic Analysis System - A Comprehensive and Effective Solution to Extract Trajectories from Aerial Videos | 1139 | ABJ50 | P |
| | Dongfang Zhao | | | | |
| 8 AM - 9:45 AM | Zhen Wang | Lane Changing Maneuver for Autonomous Vehicle in Mixed Traffic | 1120 | ABH45 | L |
| | Xiaopeng (Shaw) Li | | | | |
| 8 AM - 9:45 AM | Mouyid Islam | Unobserved Heterogeneity and Temporal Instability in the Analysis of Work-Zone Crash-Injury Severities | 1098 | ABJ80 | L |
| | Fred Mannering | | | | |
| | Nawaf Alnawmasi | | | | |
| 8 AM - 9:45 AM | Siwon Jang | Understanding Older Adults' Travel Characteristics and Immobility: Findings from 2017 National Household Travel Survey (NHTS) Data | 1125 | ANB60 | L |
| 8 AM - 12 PM | Victoria Perk | Transit Capacity and Quality of Service Committee | | AP015 | C |
| 10:15 AM - 12 PM | Zhenyu Wang | Operational and Safety Impacts of Right-Turn Deceleration Lane for Multimodal Users at Signalized Intersections: A Simulation-Based Study | 1222 | AHB65 | P |
| | Kristine Williams | | | | |
| | Seckin Ozkul | | | | |
| 10:15 AM - 12 PM | Yu Zhang | A Deep Unsupervised Approach for Airspace Complexity Evaluation | 1200 | AV060 | L |
| 12 PM - 1:30 PM | Robert L. Bertini | Operations Section Executive Board - by invitation | | AHB00 | C |

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|---------------------|---|---|------|---------|---|
| 1:30 PM - 3:15 PM | Robert L. Bertini | California's I-80 Smart Corridor: Before-After Analysis of Travel-Time Reliability Indicators vs. User-Survey Response Data | 1277 | ABJ40 | P |
| 1:30 PM - 5:30 PM | Lisa Staes | Transit Safety and Security Task Force | | AP018T | C |
| 1:30 PM - 3:15 PM | Zhiwei Chen Xiaopeng (Shaw) Li | A Continuous Model for Designing Corridor Systems with Modular Vehicles Enabling En-route Docking | 1237 | ADB30 | L |
| 1:30 PM - 3:15 PM | Tingting Zhao Di Zhuang Yu Zhang | Learning to Identify Critical Link Combinations of Roadway System through Network Embedding | 1278 | ABJ70 | P |
| 1:30 PM - 3:15 PM | Kevin Dennis Maxat Alibayev Sean Barbeau Jay Ligatti | Cybersecurity in Public Transportation: A Taxonomy | 1553 | Various | P |
| 3:15 PM - 5:30 PM | Xiaowei Shi Zhiwei Chen Xiaopeng (Shaw) Li | Variable-Capacity Operations with Modular Transits for Shared-Use Corridors | 1332 | ADB20 | P |
| 3:45 PM - 5:30 PM | Mohsen Kamrani | Estimation of Freeway Traffic Safety Utilizing Disturbance Metrics Based on Trajectory Data | 1340 | ANB20 | P |
| 3:45 PM - 5:30 PM | Mouyid Islam | Uncovering Deep Structure of Determinants in Large Truck Fatal Crashes | 1341 | ANB70 | P |
| 3:45 PM - 5:30 PM | Zhiqiang Wu Yu Zhang | System Design of eVTOL On-Demand Service for Urban Air Mobility | 1346 | Various | P |
| 3:45 PM - 5:30 PM | Seckin Ozkul | Vehicle Acceleration Modeling in Simulation | 1422 | AHB40 | P |
| 6 PM - 7:30 PM | Runan Yang | Examining Driver Injury Severity in Left-turn Crashes Using Hierarchical Ordered Probit Models | 1357 | ANB20 | P |
| 6 PM - 7:30 PM | Rakesh Rangaswamy | Comparison of Non-Motorist Injury Severities in Rural and Urban Areas in Florida | 1358 | ANB20 | P |
| | Elzbieta Bialkowska-Jelinska Cong Chen Pei-Sung Lin | | | | |
| Tuesday, January 14 | | | | | |
| 8 AM - 9:45 AM | Lisa Staes Kevin Dennis Maxat Alibayev Sean Barbeau Jay Ligatti | Safety and Security in Rail Transit Cybersecurity Vulnerabilities in Mobile Fare Payment Applications: A Case Study | 1395 | AP018T | L |
| 8 AM - 9:45 AM | Yu Zhang | Resilient Airport Systems | 1404 | AV060 | L |

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|-----------------------|--|---|------|-------|---|
| 8 AM - 9:45 AM | Qianwen Li Xiaopeng (Shaw) Li | Trajectory Design for Autonomous Modular Vehicle Docking Operations | 1420 | AHB15 | P |
| 8 AM - 9:45 AM | Abhijit Vasili Zhenyu Wang Pei-Sung Lin Rui Guo Runan Yang | Evaluation of a Low-Cost Countermeasure to Prevent Incorrect Turns at Highway-Rail Grade Crossings | 1424 | AHB60 | P |
| 8 AM - 9:45 AM | Mingchen Li Zhenyu Wang Pei-Sung Lin Runan Yang Abhijit Vasili | A Machine Learning-based Diagnosis of Lighting Patterns Contributing to Nighttime Crash Severity on Roadway Corridors | 1427 | AND40 | P |
| 10:15 AM - 12 PM | Victoria Perk | Rail Transit Quality of Service: Evaluating Passenger Satisfaction | 1467 | AP015 | L |
| 1:30 PM - 3:15 PM | Sean Barbeau | Open Source Software in Public Transportation: A Case Study | 1565 | AP000 | P |
| 1:30 PM - 3:15 PM | Pei-Sung Lin | Bus Transit Research and Practices, Part 2 (Part 1, Session 1227) | 1568 | AP060 | P |
| | Rakesh Rangaswamy Cong Chen | | | | |
| 1:30 PM - 3:15 PM | Nikhil Menon Pei-Sung Lin | A Statistical Analysis of Public Opinions from a Low-Speed Automated Shuttle Demonstration | 1568 | AP050 | P |
| | Rakesh Rangaswamy Achilleas Kourtellis Cong Chen Robert L. Bertini | | | | |
| 1:30 PM - 3:15 PM | Zhiwei Chen Xiaopeng (Shaw) Li | Timetable Design for Urban Transit Corridors with Time-varying Vehicle Capacity | 1568 | AP050 | P |
| 1:30 PM - 5:30 PM | Yu Zhang | Airfield and Airspace Capacity and Delay Committee | | AV060 | C |
| 6 PM - 7:30 PM | Manjriker Gunaratn | Methodology to Evaluate Hydroplaning Risk Under Flooded-drain and Unsteady Rainfall Conditions | 1646 | AFS60 | L |
| Wednesday, January 15 | | | | | |
| 8 AM - 12 PM | Kristine Williams | Integrating Access Management into Local Ordinances: Access Management Committee Meeting | | | C |
| 8 AM - 9:45 AM | Robert L. Bertini | Advances in Connected and Automated Vehicles Applications | 1673 | AHB15 | L |

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|-------------------|--|--|------|--------|---|
| 9 AM - 9:45 AM | Mouyid Islam | Single-Vehicle Roadway Departure Crashes on Rural Curved Segments: Analysis of Injury Severity Using Random Parameters with Heterogeneity in Means and Variances | 1691 | ANB25 | P |
| 10:15 AM - 12 PM | Michael Maness | Travel Modeling Techniques: Discussants | 1708 | ADB40 | L |
| 10:15 AM - 12 PM | Lisa Staes | Examination of Transit Bus Crash Contributors and Relational Aspects of Transit Operations | 1723 | AP018T | L |
| 10:15 AM - 12 PM | Zhiwei Chen Yujie Guo Amy Stuart Yu Zhang Xiaopeng (Shaw) Li | How Can Disaggregate Data Facilitate Transportation Equity Analysis? A Case of Coast Bike Share System in Southern Tampa | 1736 | ANF20 | P |
| 2:30 PM - 4:00 PM | Robert L. Bertini | Traffic Flow Theory and Characteristics, Part 5 (Part 1, Session 1654; Part 2, Session 1655; Part 3, Session 1656; Part 4, Session 1760) | 1761 | AHB45 | P |