# USF Center for Urban Transportation Research - TRB 2020

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

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<tr>
<th>Time</th>
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<th>Title</th>
<th>Session or Workshop No.</th>
<th>Committee</th>
<th>Type</th>
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<tr>
<td><strong>Sunday, January 12</strong></td>
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<tr>
<td>9 AM - 12 AM</td>
<td>Lisa Staes</td>
<td>Mitigating Public Transit Areas of Critical Safety Risk</td>
<td>1039</td>
<td>AP018T</td>
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<tr>
<td></td>
<td>Yu Wang</td>
<td>Trajectory-based Traffic Oscillation Analysis and Control Utilizing Connected Autonomous Vehicles</td>
<td>1029</td>
<td>AHB00</td>
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<tr>
<td></td>
<td>Xiaopeng [Shaw] Li</td>
<td>Modeling and Field Experiments on Lane Changing of an Autonomous Vehicle in Mixed Traffic</td>
<td>1032</td>
<td>AHB45</td>
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<tr>
<td>1:30 PM - 2:30 PM</td>
<td>Yu Zhang</td>
<td>Issues Around Planning &amp; Implementation</td>
<td>1074</td>
<td>Various</td>
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<tr>
<td>8 AM - 9:45 AM</td>
<td>Xiaopeng (Shaw) Li</td>
<td>Network Location and Assignment Design for Cooperation of Multi-Type Fire Vehicles</td>
<td>1156</td>
<td>AT015</td>
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<tr>
<td></td>
<td>Saeid Soleimaniamiri</td>
<td>Guidance to Facilitate Implementation of Effective Metropolitan Freight Transportation Strategies</td>
<td>1157</td>
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<td></td>
<td>Seckin Ozkul</td>
<td>Video-based Intelligent Traffic Analysis System - A Comprehensive and Effective Solution to Extract Trajectories from Aerial Videos</td>
<td>1139</td>
<td>ABJ50</td>
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<tr>
<td></td>
<td>Xiaopeng (Shaw) Li</td>
<td>Lane Changing Maneuver for Autonomous Vehicle in Mixed Traffic</td>
<td>1120</td>
<td>AHB45</td>
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<td></td>
<td>Zhen Wang</td>
<td>Unobserved Heterogeneity and Temporal Instability in the Analysis of Work-Zone Crash-Injury Severities</td>
<td>1098</td>
<td>ABJ80</td>
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<td></td>
<td>Mouyid Islam</td>
<td>Understanding Older Adults’ Travel Characteristics and Immobility: Findings from 2017 National Household Travel Survey (NHTS) Data</td>
<td>1125</td>
<td>ABJ80</td>
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<tr>
<td></td>
<td>Fred Mannering</td>
<td>Transit Capacity and Quality of Service Committee</td>
<td>1125</td>
<td>ANB60</td>
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<td></td>
<td>Nawaf Alnawmasei</td>
<td>Operational and Safety Impacts of Right-Turn Deceleration Lane for Multimodal Users at Signalized Intersections: A Simulation-Based Study</td>
<td>1222</td>
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<td></td>
<td>Victoria Perk</td>
<td>Operations Section Executive Board - by invitation</td>
<td></td>
<td>AHB00</td>
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<td>10:15 AM - 12 PM</td>
<td>Zhenyu Wang</td>
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<td></td>
<td>Kristine Williams</td>
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<td>Seckin Ozkul</td>
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<td>Yu Zhang</td>
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<tr>
<td>12 PM - 1:30 PM</td>
<td>Robert L. Bertini</td>
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</table>
California’s I-80 Smart Corridor: Before-After Analysis of Travel-Time Reliability Indicators vs. User-Survey Response Data

1:30 PM - 3:15 PM
Robert L. Bertini
Lisa Staes
Zhiwei Chen
Xiaopeng (Shaw) Li
Tingting Zhao
Di Zhuang
Yu Zhang
Kevin Dennis
Maxat Alibayev
Sean Barbeau
Jay Ligatti

1:30 PM - 3:15 PM
Transit Safety and Security Task Force
A Continuous Model for Designing Corridor Systems with Modular Vehicles
Enabling En-route Docking
Learning to Identify Critical Link Combinations of Roadway System through Network Embedding
Cybersecurity in Public Transpiration: A Taxonomy

1:30 PM - 3:15 PM
1277
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1553

3:15 PM - 5:30 PM
Variable-Capacity Operations with Modular Transits for Shared-Use Corridors
Estimation of Freeway Traffic Safety Utilizing Disturbance Metrics Based on Trajectory Data
Uncovering Deep Structure of Determinants in Large Truck Fatal Crashes
System Design of eVTOL On-Demand Service for Urban Air Mobility
Vehicle Acceleration Modeling in Simulation
Examining Driver Injury Severity in Left-turn Crashes Using Hierarchical Ordered Probit Models
Comparison of Non-Motorist Injury Severities in Rural and Urban Areas in Florida

3:15 PM - 5:30 PM
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6 PM - 7:30 PM
Examining Driver Injury Severity in Left-turn Crashes Using Hierarchical Ordered Probit Models
Comparison of Non-Motorist Injury Severities in Rural and Urban Areas in Florida

6 PM - 7:30 PM
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Tuesday, January 14

8 AM - 9:45 AM
Safety and Security in Rail Transit
Cybersecurity Vulnerabilities in Mobile Fare Payment Applications: A Case Study

8 AM - 9:45 AM
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8 AM - 9:45 AM
Resilient Airport Systems

8 AM - 9:45 AM
1404

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

1:30 PM - 3:15 PM  Rakesh Rangaswamy
Achilleas Kourtellis
Cong Chen
A Statistical Analysis of Public Opinions from a Low-Speed Automated Shuttle Demonstration 1568  AP050  P

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
Methodology to Evaluate Hydroplaning Risk Under Flooded-drain and Unsteady Rainfall Conditions 1646  AFS60  L

6 PM - 7:30 PM  Manjiriker Gunaratn
Integrating Access Management into Local Ordinances: Access Management Committee Meeting 1673  AHB15  C

8 AM - 12 PM  Kristine Williams
Robert L. Bertini
Advances in Connected and Automated Vehicles Applications 1673  AHB15  L
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<tr>
<td>9 AM - 9:45 AM</td>
<td><strong>Mouyid Islam</strong>&lt;br&gt;Single-Vehicle Roadway Departure Crashes on Rural Curved Segments: Analysis of Injury Severity Using Random Parameters with Heterogeneity in Means and Variances</td>
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<tr>
<td>10:15 AM - 12 PM</td>
<td><strong>Michael Maness</strong>&lt;br&gt;Travel Modeling Techniques: Discussants</td>
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<tr>
<td>10:15 AM - 12 PM</td>
<td><strong>Lisa Staes</strong>&lt;br&gt;Examination of Transit Bus Crash Contributors and Relational Aspects of Transit Operations</td>
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<tr>
<td>10:15 AM - 12 PM</td>
<td><strong>Zhiwei Chen</strong>&lt;br&gt;How Can Disaggregate Data Facilitate Transportation Equity Analysis? A Case of Coast Bike Share System in Southern Tampa</td>
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<tr>
<td>2:30 PM - 4:00 PM</td>
<td><strong>Robert L. Bertini</strong>&lt;br&gt;Traffic Flow Theory and Characteristics, Part 5 (Part 1, Session 1654; Part 2, Session 1655; Part 3, Session 1656; Part 4, Session 1760)</td>
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