

SAFER-SIM

TRB 2019 Program

Tier 1 University Transportation Center

Promoting Safety



SAFETY RESEARCH USING SIMULATION
UNIVERSITY TRANSPORTATION CENTER

**Transportation Research
Board**

98th Annual Meeting

January 13–17, 2019

Washington D.C.



**UMASS
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WISCONSIN
UNIVERSITY OF WISCONSIN-MADISON

Title	Authors	Session	Date	Time	Location
A Driving Simulator Study to Investigate Drivers' Lane Change Behavior on the Weaving Section of a Freeway with Managed Lane	Jinghui Yuan, Mohamed Abdel-Aty, Qing Cai, Jaeyoung Lee	Poster Session 1231	Monday	10:15 AM - 12:00PM	Convention Center, Hall A B449
Assessing the Impact of Smartphone Usage While Driving in Highway Work Zones	Ricardo García Rosario, Enid Colón Torres, María Rojas, Ivelisse Ramos, Carolyn Arroyo, Yindhira Taveras, Dr. Didier Valdés, Dr. Benjamin Colucci, Dr. Carla López del Puerto, Dr. Alberto M. Figueroa-Medina	Poster Session 1311	Monday	1:30 PM— 3:15 PM	Convention Center, Hall A B381
Evaluation of the Effectiveness on the Implementation of a Two Way Left Turn Lane with Education Material In Highway PR 107 Using a Driving Simulator	Ricardo García Rosario, Dr. Didier Valdés , Dr. Alberto M. Figueroa-Medina	Poster Session 1312	Monday	1:30 PM— 3:15 PM	Convention Center, Hall A B399
Understanding the Safety Benefits of Connected and Automated Vehicles on Arterials' Intersections and Segments	Md. Sharikur Rahman, Mohamed Abdel-Aty, Jaeyoung Lee, and Md. Hasibur Rahman	Poster Session 1312	Monday	1:30 PM— 3:15 PM	Convention Center, Hall A B402
Can Virtual Reality Headsets Be Used to Measure Accurately Drivers' Hazard Anticipation Performance: The Promise of VR Headsets	Ganesh Pai Mangalore , Yalda Ebadi, Siby Samuel, Michael Knodler, Donald L. Fisher	Poster Session 1312	Monday	1:30 PM— 3:15 PM	Convention Center, Hall A B390
Improving flow and safety in low visibility conditions by applying connected vehicles and variable speed limits technologies	Yina Wu, Mohamed Abdel-Aty, Ling Wang, and Md. Sharikur Rahman	Lectern Session 1335	Monday	3:45 PM— 5:30 PM	Convention Center, 206
Integrated Safety and Operational Analysis of the Access Design of Managed Toll Lanes	Moatz Saad, Mohamed Abdel-Aty, Jaeyoung Lee, and Ling Wang	Lectern Session 1338	Monday	3:45 PM— 5:30 PM	Convention Center, Salon A
The Practical Effectiveness of Advanced Driver Assistance Systems at Different Roadway Facilities: System Limitation, Adoption, and Usage	Lishengsa Yue, Mohamed Abdel-Aty, and Yina Wu	Poster Session 1368	Monday	3:45 PM— 5:30 PM	Convention Center, Hall A B339
Examining the Effects of Augmented Reality Traffic Signs on Driver's Performance and Distraction	Iman Farhat, Kelvin Santiago, Madhav Chitturi , David Noyce	Poster Session 1368	Monday	3:45 PM— 5:30 PM	Convention Center, Hall A B346
Driver Behavior in Unexpected Vehicle Situations	Shannon Roberts	Lectern Session 1385	Monday	6:00 PM— 8:00 PM	Convention Center, Salon B
Bicycle Safety Analysis at Intersections Using Croudsourced Data	Moatz Saad, Mohamed Abdel-Aty, Jaeyoung Lee, Qing Cai	Lectern Session 1645	Tuesday	6:00 PM— 7:30 PM	Convention Center, 152B