SAFER-SIM
TRB 2017 Program
Tier 1 University Transportation Center
Promoting Safety

Transportation Research Board
96th Annual Meeting
January 8—12, 2017
Washington D.C.
This program organizes the sessions that include SAFER-SIM researchers or students at the Transportation Research Board 96th Annual Meeting

**Consortium Members:**
- University of Iowa
- University of Central Florida
- University of Massachusetts—Amherst
- University of Puerto Rico—Mayagüez
- University of Wisconsin—Madison
Session 245
Monday, January 9th | 8:00 AM—9:45 AM
Convention Center, 103B
Lectern

Transportation Innovations May Improve Safety

SAFER-SIM Presentation:
Implementation of Active Traffic Management Strategies for Safety of a Congested Expressway Weaving Segment
(17-00248)

Ling Wang, University of Central Florida
Mohamed Abdel-Aty, University of Central Florida
Jaeyoung Lee, University of Central Florida

Session 400
Monday, January 9th | 1:30 PM—3:15 PM
Convention Center, Hall E
Poster—H317

Simulation and Measurement of Vehicle and Operator Behavior

SAFER-SIM Poster:
Bicycle Infrastructure from the Driver's Seat: Evaluating Bicycle Infrastructure Using a Driving Simulator
(17-01981)

Nicholas Fournier, University of Massachusetts—Amherst
Eleni Christofa, University of Massachusetts—Amherst
Michael Knodler, University of Massachusetts—Amherst
Simulation and Measurement of Vehicle and Operator Behavior

SAFER-SIM Poster:
Comparative Analysis of Toll Plaza Safety Features in Puerto Rico and Massachusetts Using a Driving Simulator (17-05393)

Didier Valdes, University of Puerto Rico—Mayaguez
Benjamin Colucci, University of Puerto Rico—Mayaguez
Donald Fisher, OST-R
Michael Knodler, University of Massachusetts—Amherst
Bryan Ruiz-Cruz, University of Puerto Rico—Mayaguez
Johnathan Ruiz Gonzalez, University of Puerto Rico—Mayaguez
Enid Colón Torres, University of Puerto Rico—Mayaguez
Ricardo Garcia Rosario, University of Puerto Rico—Mayaguez
Foroogh Sadat Hajiseyedjavadi, University of Massachusetts—Amherst

Current Research on User Information Systems

SAFER-SIM Poster:
Safety Investigation of Combining Ramp Metering and Variable Speed Limits Strategies on Urban Freeways: A Simulation Study (17-01045)

Kirolos Haleem, University of Alabama, Huntsville
Mohamed Abdel-Aty, University of Central Florida
Current Research on User Information Systems

SAFER-SIM Poster:
Analysis of the Impact of Fog Warning systems on Driver Behavior Under Reduced Visibility Conditions Using a Driving Simulator (17-02698)

Yina Wu, University of Central Florida
Mohamed Abdel-Aty, University of Central Florida
Juneyoung Park, University of Central Florida
Ryan M. Selby, University of Central Florida

Traffic Control Device Challenge:
Promote Innovation in Traffic Control Devices to Accommodate Both Human and Machine Drivers

SAFER-SIM Poster:
Supplemental Warning Traffic Signal to Improve Pedestrian and Bicycle Safety (17-22039)

Ibrahim Alsghan, University of Wisconsin—Madison
Highway Safety Performance

SAFER-SIM Poster:
Effects of Using High Occupancy Toll Lanes on Safety Performance of Freeways (17-06894)

Muamer Abuzwidah, University of Sharjah
Mohamed Abdel-Aty, University of Central Florida

Vehicle Technology, Communication, and Automation

SAFER-SIM Presentation:
Evaluation of Vehicle Owners' Understanding of their Advanced Vehicle Safety Technologies: Knowledge Score Analysis (17-03777)

Ashley McDonald, University of Iowa
Julia Friberg, University of Iowa
Daniel McGehee, University of Iowa
Natoshia Askelson, University of Iowa