

JOINT TRAN-SET WEBINAR SERIES



Part 2- Advancements in Pedestrian and Bicyclist Safety

- Thursday September 16th, 2021 | 2:00 – 3:15 PM (CST)
- Free registration at: <https://bit.ly/3hHDuej>
- Information at: <https://transet.lsu.edu/webinars/>

Autonomous Vehicle Communication Strategies Modeled in Virtual Reality

Dr. Ferenchak's project tests the impact of autonomous vehicle (AV) external human-machine interfaces (eHMIs) on road users' behaviors and perceptions. Drivers, bicyclists, and pedestrians are tested in novel virtual reality simulators.



Dr. Nick Ferenchak
University of New Mexico



Dr. Pengfei (Taylor) Li

University of Texas at Arlington



Dr. Sirisha Kothuri

Portland State University

Capturing pedestrian behaviors at signalized intersection based on LIDAR-sensing technology: system architecture, data analytics and implications

The aim of this research project is to describe a novel method of collecting pedestrian crossing behaviors at signalized intersection, findings and implications of data analytics and to introduce a novel approach to dynamic flash yellow arrow mechanism to reduce the conflict between left-turn vehicles and crossing pedestrians.

A Naturalistic Cycling Study in Ann Arbor, Michigan

The presentation describes a recent naturalistic cycling study in Ann Arbor, Michigan. A fleet of four electric bikes were instrumented with cameras, GPS and were given to study participants as a substitute of their own bicycle. A total of over 5,000 miles of riding data from 77 subjects were collected over two years. The dataset could be used for studying the interactions between motorists and cyclists on real-world roadways.



Dr. Fred Feng
University of Michigan-Dearborn



Portland State
UNIVERSITY

