

The ITE Student Chapter at FAU Presents:

Application of Automated Sensor Data for Development of Estimation Models for Real Time Traffic Management

Lecture Presentation By

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Abstract:

Application of automated sensor data for development of estimation models for various traffic variables in the homogeneous as well as heterogeneous (mixed) traffic conditions will be discussed in the seminar. The first case study will discuss the development of a model-based queue estimation scheme using the Kalman filtering technique, taking into account the statistical properties of detector errors, for homogeneous traffic conditions. The second case study will discuss the suitability of Bluetooth and RFID (Radio Frequency Identifier) sensors for data collection and development of travel time estimation models using ARIMA modeling method under mixed traffic conditions, as prevailing in India. The developed estimation schemes can be used as part of travel time information applications in real time Intelligent Transportation System (ITS) implementations.

Presenter Bio:

Dr. Anusha S.P. got her Ph.D. at the Transportation Engg, IIT Madras, 2016. Her areas of interest are Intelligent Transportation Systems, Signalized Intersections, Bus Arrival Time Predictions, and Vehicular Emissions. She has several publications in both national and international journals from 2006. She has completed two projects funded by Transportation Research Centre, CET.

Date: Monday, October 14th, 2019
Time: 12:00 PM
Place: Engineering East, Room 303
Lunch is Provided.

