Micro Sensor Development for Vehicle Detection and Identification for Next Generation Smart Roads

The use of machine-learning algorithms for smart roads to track and analyze traffic attributes allows for highly accurate classifications while still being scalable and flexible enough to identify new types of vehicles that have yet to hit the market. This talk centers on the development of a distributed wireless sensing network that utilizes low power processors in conjunction to “in-sensor-node” machine learning algorithms for computation and a communications protocol for the development of a lightweight low-power multi-node MEMS sensing network.

Mohammad Mozumdar is an associate professor in the Electrical Engineering Department at California State University, Long Beach (CSULB). Dr. Mozumdar’s research interests include secure-by-design methodologies, especially in the domain cyber physical systems typically subjected to high real time, safety and reliability constraints.

RSVP required. Lunch will be served.