

**Transportation System Optimization Workshop**

**Date: May 8, 2015**

**Location: VPD 112**

**Daniel J. Epstein Department of Industrial and Engineering  
University of Southern California**

**Sponsors: Epstein Institute and METRANS**

- 8:30-9:00** Continental Breakfast
- 9:00-9:15** Welcome, Maged Dessouky and Jong-Shi Pang, University of Southern California
- 9:15-9:45** "Service Region Design for Urban Electric Vehicle Sharing Systems," Max Shen, University of California, Berkeley
- 9:45-10:15** "Joint Traffic Routing and Signal Control in a Connected Vehicle Environment," Michael Zhang, University of California, Davis
- 10:15-10:45** "Household-Level Economies of Scale in Transportation," John Gunnar Carlsson, University of Southern California
- 10:45-11:15** Coffee Break
- 11:15-11:45** "Peer-to-Peer Ride-Share Systems: Possibilities and Algorithms," R. Jayakrishnan, University of California, Irvine
- 11:45-12:15** "Stability Analysis and Control Synthesis for Dynamical Traffic Systems: from Microscopic to Macroscopic," Ketan Savla, University of Southern California
- 12:15-1:30** Lunch
- 1:30-2:00** "Traffic Network Observability and Stochastic Estimation," Yue Yue Fan, University of California, Davis
- 2:00-2:30** "Optimization in Real Transportation Systems," Genevieve Giuliano, University of Southern California
- 2:30-3:00** "Dynamic User Equilibrium in Continuous-time and Pricing Strategies for System Optimum," Rui Ma, University of California, Davis
- 3:00-3:30** Coffee Break
- 3:30-4:00** "Load Balancing Using a Co-Simulation/Optimization/Control Approach," Petros Ioannou, University of Southern California
- 4:00-4:30** "Efficient Algorithms in the Redesign of an Emergency Dispatching System," Fernando Ordonez, Universidad de Chile