2008 IEEE/ASME/SAE Workshop on Open Problems and Challenges in Automotive Control (as of 1/28/08)

Friday, April 18, 2008 • Marriott Renaissance Hotel • LaSalle A/B – Level 5 • Detroit, Michigan

IEEE

SAE International™

Time	Title	Speaker
8:00 – 8:05	Opening Remarks	Rajesh Rajamani* University of Minnesota, Minneapolis, Minnesota
Session I – Moderator: Richard Stobart, Loughborough University*		
8:05 – 8:50	System Wide Issues in the Design of Control Systems for Vehicles	David Ward MIRA Ltd., United Kingdom
8:50 – 9:35	Communication and Security Challenges for Information-Sharing Vehicles	Ken Laberteaux Toyota Technical Center, Ann Arbor, Michigan
Break - Marquette A/B		
Session II – Moderator: Eric Tseng, Ford Motor Company*		
9:45 – 10:30	The Challenges for Electronic Stability Control in the Year 2012 and Beyond	Danny Milot TRW Automotive Chassis Systems, Livonia, Michigan
10:30 – 11:15	Differential-Based Vehicle Stability Control: Torque Vectoring	Jae Lew Eaton Innovation Center, Eden Prairie, Minnesota
11:15 – 12:00	Engine Control - Future Requirements and Challenges	Thomas Ryan Southwest Research Institute, San Antonio, Texas
Lunch - Marquette A/B		
Session III – Moderator: Sharon Liu, GM Powertrain*		
1:00 – 1:45	Optimization and Control Problems in Vehicle-Grid-Building Energy Networks	Giorgio Rizzoni Ohio State University, Columbus, Ohio.
1:45 – 2:30	Effects of Control Strategy and Calibration on Hybridization Level and Fuel Economy in Fuel Cell Hybrid Electric Vehicle	Anna Stefanopoulou University of Michigan, Ann Arbor, Michigan
2:30 – 3:15	Challenges and Opportunities for Advanced Control Applications to Automotive Powertrain Systems	Diana Yanakiev and Ilya Kolmanovsky Ford Motor Company, Dearborn, Michigan
Break - Marquette A/B		
Session IV – Moderator: Sean Brennan, Pennsylvania State University*		
3:30 – 4:15	Integrating On-Board Diagnostics and Engine Torque Control	Igor Anilovich and John Van Gilder, GM Powertrain, Milford, Michigan
4:15 – 5:00	Calibrating the Modern Engine: Trends in Processes and Tool Support	Peter Maloney The MathWorks, Novi, Michigan

* Denotes Workshop Organizers as well as David Bevly, Auburn University

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