UTC Institute for Advanced Systems Engineering

University of Connecticut · **United Technologies**

Annual Conference
Monday November 10, 2014

Morning – Executive Session

8:00 – 8:30	Continental Breakfast & Registration
8:30 – 9:15	Welcome, Introduction, UTC IASE background **Michael McQuade (UTC), Mun Choi (UCONN), Michael Winter (UTC), Sandor Becz (UTC)**
9:15 – 10:00	System of Systems Engineering at DARPA/STO: Motivation, Challenges, and Technical Approaches **Nils Sandell (DARPA)**
10:00 – 10:20	**Break**

Morning – Supervisory Control

10:20 – 10:50	Adaptive Control: A form of supervisory control **Steve Morse (YALE)**
10:50 – 11:20	Reactive Control Protocols and Supervisory Control **Richard Murray (CALTECH)**
11:20 – 11:50	Supervisory Control for Optimal Performance in Uncertain Data-driven Environments **Christos Cassandras (BU)**
11:50 – 12:10	Supervisory Control: Challenges, Implementations & Outlook **Isaac Cohen (UTC)**
12:10 – 12:20	Structured methods for Built-in Tests using Optimal Experimental Design **George Bollas (UCONN)**
12:20 – 12:30	Supervisory Control of Chiller Plants **Shalabh Gupta (UCONN)**
12:30 – 1:30	**Buffet Lunch**

Afternoon – Embedded Systems

1:30 – 2:00	Are we Ready to Unleash the Full Potential of Future Embedded Systems? **Holger Giese (HPI)**
2:00 – 2:30	Cyber-Physical Systems: Design methodologies and open problems **Alberto Sangiovanni-Vincentelli (UC Berkeley)**
2:30 – 3:00	Modeling and Analysis Challenges of Automotive Embedded Software **S. Ramesh (GM Labs)**
3:00 – 3:10	Energy Efficient Drives: Model-based Approach with Embedded System Considerations **Ali Bazzi (UCONN)**
3:10 – 3:20	Design Automation and Optimization Framework for Embedded Systems **Omer Khan (UCONN)**

3:20 – 3:40 Break

Afternoon – Tool Chains for Design Flows

3:40 – 3:50	MathWorks **Jason Ghidella**
3:50 – 4:00	Dassault Systemes **Garrett Thurston**
4:00 – 4:10	ANSYS **Tony Karam & Scott Stanton**
4:10 – 5:00	Integration, Modeling, Simulation, Validation **Hubertus Tummescheit – Moderator**
5:00 – 5:15	Closing Remarks **Scott Kaslusky (UTC) & Kazem Kazerounian (UCONN)**

Evening

5:15 – 7:00	Poster Session & Exhibits – Cocktails and hors d'oeuvres