

CPS Programs at a Glance

Cyber-Physical Systems (CPS) Week, April 13-16, 2009, San Francisco, CA, USA

<http://www.cpsweek.org/>

Sponsored by: IEEE Signal Processing Society, IEEE Computer Society and ACM SIGBED

Supported by: Microsoft and NSF.

	Time	RTAS (Cyril Magnin III)	IPSN (Cyril Magnin I/II)	HSCC (Mission)
April 13 (Monday)	7:00 – 8:00am	Breakfast (Cyril Magnin Foyer)		
	8:00 - 8:30am	Opening Remarks (Cyril Magnin Ballroom)		
	8:30 - 9:30am	Plenary (Cyril Magnin Ballroom) <i>Sensing and Control on a Planetary Scale</i> Raghunathan “Raj” Rajkumar, Carnegie Mellon University		
	9:30 - 10:00am	Break		
	10:00 - 11:30am	Multiprocessor Scheduling	IP: Security	Verification and Synthesis I
	11:30 - 12:30pm	Lunch (Cyril Magnin Foyer)		
	12:30 – 2:00pm	Execution Time I	IP: Time	Abstraction
	2:00 – 2:30pm	Break		
	2:30 – 4:00pm	CPS	IP: Retasking	Verification and Synthesis II
	4:00 – 4:30pm	Break		
	4:30 – 6:00pm	Systems & Software	IP: Delivery	Topics in Hybrid Control
	6:00 – 6:30pm	Break		
6:30-8:30pm	CPS Week Poster and Demo Session Extreme Sensing Competition			
April 14 (Tuesday)	7:00 – 8:30am	Breakfast (Cyril Magnin Foyer)		
	8:30-9:30am	Plenary (Cyril Magnin Ballroom) <i>Distributed Architectures for Embedded Systems: Challenges for Real-Time Control</i> Albert Benveniste, IRISA/INRIA, Rennes Cedex, France		
	9:30-10:00am	Break		
	10:00-11:30am	Energy Aware	SPOTS: Design	Analysis and Specification
	11:30-12:30pm	Lunch (Cyril Magnin Foyer)		
	12:30 - 2:00pm	Scheduling I	SPOTS: Deployments	Lyapunov Methods
	2:00-2:30pm	Break		
	2:30-4:00pm	Applications	SPOTS: Components	Applications I
	4:00-4:30pm	Break		
	4:30-6:00pm	Distributed Systems	SPOTS: Panel	Sensor Networks
6:00 – 7:00pm	RTAS TCRTS meeting	IPSN Business Meeting: Open to everyone		
7:00 - 9:00pm	Banquet (Cyril Magnin Foyer) Banquet Keynote: Embedded Systems Issues for the Big Problems of Society Dr. Shankar Sastry, University of California, Berkeley, USA			
April 15 (Wednesday)	7:00 – 8:30am	Breakfast (Cyril Magnin Foyer)		
	8:30-9:30am	Plenary (Cyril Magnin Ballroom) <i>From Galaxies to Sensor Networks: Science in an Exponential World</i> Alex Szalay, Alumi Centennial Professor, Johns Hopkins University		
	9:30-10:00am	Break		
	10:00-11:30am	Scheduling II	IP: Services	Applications II
	11:30-12:30pm	Lunch (Cyril Magnin Foyer)		
	12:30-2:00pm	Execution Time II	IP: Space	Networks
	2:00-2:30pm	Break		
	2:30-3:30pm	Sensor Networks & Closing Remarks	IP: Queries (Mission)	
	3:30 – 6:00pm	CPS Forum Panel (Cyril Magnin I/II/III)		

		Tutorials	Workshops
April 16 (Thursday)	8:30 – 11:30am	Compressive Sensing Theory and Applications <i>by Volkan Cevher and Richard Baraniuk (Rice University)</i> TinyOS 2.1 (introduction and new features) <i>by Omprakash Gnawali (USC)</i>	The 4th International Workshop on Feedback Control Implementation and Design in Computing Systems & Networks (FeBID 2009) The 2nd International Workshop on Numerical Software Verification (NSV-II), 2009 Hybrid Systems Approaches to Computational Biology (HSCB), 2009
	12:00 – 1:00pm		Sensor Networks for Earth and Science Applications, 2009
	1:00 – 3:00pm	Energy Metering and Tracking with ICount and Quanto <i>by Rodrigo Fonseca (Brown University) and Prabal Dutta (University of California, Berkeley)</i> Building the Internet of Everything Using the TinyOS Kernel Interface (TOSKI) <i>by Chad Metcalf, Jonathan Hui and Alec Woo (ArchRock)</i>	The 2nd Joint Workshop On High Confidence Medical Devices, Software, and Systems (HCMDSS) and Medical Device Plug-and-Play (MD PnP) Interoperability
	3:00 – 5:00pm	IP-based Sensor Networks: a Hands-on Tutorial (uIP) <i>by Adam Dunkels (Swedish Institute of Computer Science)</i>	Workshop on Mixed Criticality: Roadmap to Evolving UAV Certification

