

CPS Week 2015 Program

Seattle, WA, April 13 – 16

Room Assignments

Function	Location
Plenary Keynotes (Tue, Wed, Thu, 8:30AM-10AM)	TCC/LL4&LL5
HSCC	TCC/LL2
ICCPS	TCC/LL4
IPSN	TCC/101
RTAS	TCC/LL5
Posters and Demos (Tue 5PM—8PM)	TCC/3rd floor
Location Competition (Mon & Tue)	TCC/3rd floor
CPS Community Forum (Tue 8PM — 9:30PM)	TCC/LL2
N2Women Meeting (Wed 12PM—1:30PM)	TCC/101
Monday Events	
Big Data Analytics in CPS	TCC/101
Swarm at the Edge of the Cloud	TCC/LL4
Robotic Sensor Networks	TCC/LL2
Medical Cyber-Physical Systems (MedicalCPS)	TCC/204
Feedback Computing	Hyatt/Discovery A
Modeling and Simulation of Cyber-Physical Energy Systems	TCC/LL3
AdaPtive and Reconfigurable Embedded Systems	Hyatt/Discovery B
CPS for Smart Water Networks (CySWater)	Hyatt/Portland B
Numerical Software Verification (NSV-VIII)	TCC/LL1
Applied verification for Continuous and Hybrid Systems (ARCH)	TCC/205
Emerging Ideas and Trends in Engineering of CPS (EITEC)	TCC/102
Certifiable Multicore Avionics Systems (CMAS)	TCC/LL5
NSF ECI Workshop on Smart City and CPS	TCC/202
Transatlantic Cyber-Physical Systems Summit	Hyatt/Portland A
Forum on Artifact Evaluation (5PM—6:30PM)	TCC/LL5
IPSN PhD Forum (1PM—5PM)	TCC/203
Services	
Registration	TCC/1 st floor
Breakfast (7AM) and Lunch (12PM)	TCC/303 & 304
Conference Banquet	Chihuly

Master Schedule

Time	Monday	Tuesday	Wednesday	Thursday
7:30	Breakfast and registration			
8:15	Workshop Session 1	Opening & Keynote	Awards & Keynote	Awards & Keynote
8:30				
9:00				
9:30				
10:00	Break	Break	Break	Break
10:30	Workshop Session 2	Session 1	Session 4	Session 7
11:00				
11:30				
12:00	Lunch	Lunch	N2Women Panel Lunch	Lunch on self
12:30				
13:00	Workshop Session 3	Session 2	Session 5	Session 8
13:30				
14:00				
14:30	Break	Break		
15:00	Workshop Session 4	Session 3	Break	Break
15:30				
16:00			Session 6	Session 9
16:30				
17:00	Forum on Artifact Evaluation	Posters & Demos Reception	Break/Travel	Close
17:30				
18:00				
18:30				
19:00				
19:30				
20:00				
20:30	CPS Forum	Banquet		
21:00				

Main Program

4/14 (Tuesday)

	HSCC	ICCPs	IPSN	RTAS
8:15	Opening Remark			
8:45 – 10:00	Plenary Keynote: 		Sensors, Predictions, and Decisions <i>Eric Horvitz (Microsoft Research)</i>	
10:30 – 12:00	A Viability Approach for Fast Recursive Feasible Finite Horizon Path Planning of Autonomous RC Cars <i>Alexander Liniger and John Lygeros</i>	Sensor Attack Detection in the Presence of Transient Faults <i>Junkil Park, Radoslav Ivanov, James Weimer, Miroslav Pajic and Insup Lee</i>	TIIM: Technology-Independent Interference Mitigation for Low-power Wireless Networks <i>Anwar Hithnawi, Hossein Shafagh, and Simon Duquennoy</i>	Providing Task Isolation via TLB Coloring <i>Frank Mueller and Shrinivas Panchamukhi</i>
	Reach-Avoid Problems with Time-Varying Dynamics, Targets and Constraints <i>Jaime Fisac, Mo Chen, Claire Tomlin and Shankar Sastry</i>	Experimental Analysis of Denial-of-Service Attacks on Teleoperated Robotic Systems <i>Tamara Bonaci, Junjie Yan, Jeffrey Herron, Tadayoshi Kohno and Howard Chizeck</i>	Decentralized Multichannel Medium Access Control: Viewing Desynchronization as a Convex Optimization Method <i>Nikos Deligiannis, João F. C. Mota, George Smart, and Yiannis Andreopoulos</i>	Optimizing Deterministic Garbage Collection in NAND Flash Storage Systems <i>Qi Zhang, Xuandong Li, Linzhang Wang, Tian Zhang, Yi Wang and Zili Shao</i>
13:00 – 14:30	An Improved Algorithm for Robust Safety Analysis of Sampled Data Systems <i>Ian M. Mitchell and Shahab Kaynama</i>	Local Open- and Closed-Loop Manipulation of Multi-Agent Networks <i>Jackeline Abad Torres, Dinuka Sahabandu, Rahul Dhal and Sandip Roy</i>	Bringing Multi-Antenna Gain to Energy-Constrained Wireless Devices <i>Sanjib Sur, Teng Wei, and Xinyu Zhang</i>	Top-Down and Bottom-Up Multi-Level Cache Analysis for WCET Estimation <i>Zhenkai Zhang and Xenofon Koutsoukos</i>
	What's Decidable About Recursive Hybrid Automata? <i>Krishna S., Lakshmi Manasa and Ashutosh Trivedi</i>	Fault Detection in Adaptive Learning Based Control Systems Towards Trusted Autonomy <i>Xiaodong Zhang, Matthew Clark, Kuldip Rattan and Jonathan Muse</i>	RAMP: Accelerating Wireless Sensor Hardware Design with a Reconfigurable Analog/Mixed-Signal Platform <i>Brandon Rumberg, David W. Graham, Spencer Clites, Brandon Kelly, Mir Mohammad Navidi, Alex Dilello, and Vinod Kulathumani</i>	Analysis of Real-Time Multi-Modal FP-Scheduled Systems with Non-Preemptible Regions <i>Masud Ahmed, Pradeep Hettiarachchi and Nathan Fisher</i>
	Bounded-Rate Multi-Mode Systems Based Motion Planning <i>Devendra Bhave, Sagar Jha, Krishna S., Sven Schewe and Ashutosh Trivedi</i>	CPS Approach to Checking Norm Operation of a Brake-by-Wire System <i>Kyong Tak Cho, Kang Geun Shin and Taejoon Park</i>	SunaPlayer: High-Accuracy Emulation of Solar cells <i>Stanislav Bobovych, Nilanjan Banerjee, Ryan Robucci, James Parkerson, Jackson Schmandt and Chintan Patel</i>	The Packing Server for Real-Time Scheduling of MapReduce Workflows <i>Shen Li, Shaohan Hu and Tarek Abdelzaher</i>

	<p>A sufficient condition for the boundedness of matrix products accepted by an automaton <i>Matthew Philippe and Raphaël Jungers</i></p>	<p>Distributed Fault Detection of Nonlinear Large-Scale Dynamic Systems <i>Elaheh Noursadeghi and Ioannis Raptis</i></p>	<p>A Software-defined Sensor Architecture for Large-scale Wideband Spectrum Monitoring <i>Damian Pfammatter, Domenico Giustiniano, and Vincent Lenders</i></p> <p>ORBIT: A Smartphone-Based Platform for Data-Intensive Embedded Sensing Applications <i>Mohammad-Mahdi Moazzami, Dennis E. Phillips, Rui Tan, and Guoliang Xing</i></p>	<p>Jfair: A Scheduling Algorithm to Stabilize Control Applications <i>Amir Aminifar, Petru Eles and Zebo Peng</i></p>
15:00 – 17:00	<p>Efficient Finite Abstraction of Mixed Monotone Systems <i>Samuel Coogan and Murat Arcak</i></p> <p>Compositional Construction of Approximate Abstractions <i>Matthias Rungger and Majid Zamani</i></p> <p>Computing Bisimulation Functions using SOS Optimization and delta-decidability over the Reals <i>Abhishek Murthy, Md. Ariful Islam, Radu Grosu and Scott Smolka</i></p> <p>Probabilistic Diagnosability of Hybrid Systems <i>Yi Deng, Agung Julius and Alessandro D’innocenzo</i></p>	<p>Exploiting Structured Human Interactions to Enhance Estimation Accuracy in Cyber-physical Systems <i>Yunlong Gao, Shaohan Hu, Renato Mancuso, Hongwei Wang, Minje Kim, Poliang Wu, Lu Su, Lui Sha and Tarek Abdelzaher</i></p> <p>Controller Synthesis for Autonomous Systems Interacting with Human Operators <i>Lu Feng, Clemens Wiltsche, Laura Humphrey and Ufuk Topcu</i></p> <p>Fully Bayesian Learning and Spatial Reasoning with Flexible Human Sensor Networks <i>Nisar Ahmed, Mark Campbell, David Casbeer, Yongcan Cao and Derek Kingston</i></p> <p>REST: A Reliable Estimation of Stopping Time Algorithm for Social Game Experiments <i>Ming Jin, Lillian Ratliff, Ioannis Konstantakopoulos, Costas Spanos and Shankar Sastry</i></p>	<p>Tongue-n-Cheek: Non-contact Tongue Gesture Recognition <i>Zheng Li, Ryan Robucci, Nilanjan Banerjee, and Chintan Patel</i></p> <p>Hand Hygiene Duration and Technique Recognition Using Wrist-worn Sensors <i>Valerie Galluzzi, Ted Herman, and Philip Polgreen</i></p> <p>Graph Scale-Space Theory for Distributed Peak and Pit Identification <i>Andreas Loukas, Marco Cattani, Marco Zuniga, and Jie Gao</i></p> <p>Cost-Aware Compressive Sensing for Networked Sensing Systems <i>Liwen Xu, Xiaohong Hao, Nicolas D. Lane, Xin Liu, and Thomas Moscibroda</i></p>	<p>POET: A Portable Approach to Minimizing Energy Under Soft Real-time Constraints <i>Connor Imes, David H. K. Kim, Martina Maggio and Henry Hoffmann</i></p> <p>GPES: A Preemptive Execution System for GPGPU Computing <i>Husheng Zhou, Guangmo Tong and Cong Liu</i></p> <p>When Thermal Control Meets Sensor Noise: Analysis of Noise-induced Temperature Error <i>Dohwan Kim, Kyung-Joon Park, Yongsoon Eun, Sang H. Son and Chenyang Lu</i></p> <p>Ultrasonic Time Synchronization and Ranging on Smartphones <i>Patrick Lazik, Niranjini Rajagopal, Bruno Sinopoli and Anthony Rowe</i></p>
17:00 – 20:00	Posters and Demos Reception			RTAS WIP Session
20:00 – 21:30	CPS Community Forum			IEEE TCRTS Open Meeting

4/15 (Wednesday)

	HSCC	ICCPS	IPSN	RTAS
8:15	Best Paper Award Announcements			
8:30 – 10:00	Plenary Keynote	 Population Control <i>John Lygeros (ETH Zurich)</i>		
10:30 – 12:00	<p>Dynamic Scheduling for Networked Control Systems <i>Indranil Saha, Sanjoy Baruah and Rupak Majumdar</i></p> <p>Closed Loop Analysis of Control Command Software <i>Pierre Roux, Romain Jobredeaux and Pierre-Loic Garoche</i></p> <p>Real-time Control under Clock Offsets between Sensors and Controllers <i>Kunihisa Okano, Masashi Wakaiki and Joao Hespanha</i></p>	<p style="text-align: center;">BEST PAPERS OF ICCPS</p> <p>Taxi Dispatch with Real-Time Sensing Data in Metropolitan Areas - a Receding Horizon Control Approach <i>Fei Miao, Shan Lin, Sirajum Munir, John A. Stankovic, Hua Huang, Desheng Zhang, Tian He and George J. Pappas</i></p> <p>Early Detection of Critical Pulmonary Shunts in Infants <i>Radoslav Ivanov, James Weimer, Allan Simpao, Mohamed Rehman and Insup Lee</i></p> <p>Response-Time Analysis for Real-Time Tasks in Engine Control Applications <i>Alessandro Biondi, Marco Di Natale and Giorgio Buttazzo</i></p>	<p>PIR Sensors: Characterization and Novel Localization Technique <i>Sujay Narayana, Sripad Kowshik, Madhuri Iyer, R R Venkatesha Prasad, Prabhakar T V and Vijay Rao</i></p> <p>Radio-based Device-free Activity Recognition with Radio Frequency Interference <i>Bo Wei, Wen Hu, Mingrui Yang, and Chun Tung Chou</i></p> <p>dRTI: Directional Radio Tomographic Imaging <i>Bo Wei, Ambuj Varshney, Neal Patwari, Wen Hu, Thiemo Voigt, and Chun Tung Chou</i></p> <p>A Realistic Evaluation and Comparison of Indoor Location Technologies: Experiences and Lessons Learned <i>Dimitrios Lymberopoulos et. al</i></p>	<p>SPeCK: A Kernel for Scalable Predictability <i>Qi Wang, Yuxin Ren, Matt Scaperoth and Gabriel Parmer</i></p> <p>AUTOBEST: A United AUTOSAR-OS and ARINC 653 Kernel <i>Alexander Zupke, Marc Bommert and Daniel Lohmann</i></p> <p>Prioritizing Soft Real-Time Network Traffic in Virtualized Hosts Based on Xen <i>Chong Li, Sisu Xi, Chenyang Lu, Chris Gill and Roch Guerin</i></p>
13:30 – 15:00	<p>Keynote – Will future cars have formally verified powertrain control software? <i>Jyotirmoy V. Deshmukh</i></p> <p>Tool Paper - HYST: A Source Transformation and Translation Tool for Hybrid Automaton Models <i>Stanley Bak, Sergiy Bogomolov and Taylor T Johnson</i></p> <p>Tool Paper - ProbReach: Verified Probabilistic Delta-Reachability for Stochastic Hybrid Systems <i>Fedor Shmarov and Paolo Zuliani</i></p>	<p style="text-align: center;">KEYNOTE: Smart Cities as Cyber-Physical Systems <i>Christos G. Cassandras</i></p> <p>Work In Progress Short Talks</p>	<p>Debiasing Crowdsourced Quantitative Characteristics in Local Businesses and Services <i>Robin Wentao Ouyang, Lance Kaplan, Paul Martin, Alice Toniolo, Mani Srivastava, and Timothy J. Norman</i></p> <p>Scalable Social Sensing of Interdependent Phenomena <i>Shiguang Wang, Lu Su, Shen Li, Shaohan Hu, Tanvir Amin, Hongwei Wang, Shuochao Yao, Lance Kaplan, and Tarek Abdelzaher</i></p> <p>QueueVadis: Queuing Analytics using Smartphones <i>Tadashi Okoshi, Vu Lu, Chetna Vig, Youngki Lee, Rajesh Krishna Balan, and Archan Misra</i></p>	<p>13:00 – 15:00 Industrial Session: <i>The industry panel is convened to discuss current and future needs for advances in the state of the art in real-time systems, especially in the context of new challenges and recent research progress in mixed-criticality systems and multi-core real-time platforms. Each panelist will give a brief position statement and an explanation of why those needs are as yet unmet, and then will engage in discussion following the presentations based on questions and comments from the audience and from other panelists.</i></p>

			Feeder: Supporting Last-Mile Transit with Extreme-Scale Urban Infrastructure Data <i>Desheng Zhang, Juanjuan Zhao Fan Zhang, Ruobing Jiang, and Tian He</i>	
15:30 – 17:30	On delta–sampling safety verification for discrete–time, possibly discontinuous systems <i>Ruxandra Valentina Bobiti and Mircea Lazar</i> Eliminating Spurious Transitions in Reachability with Support Functions <i>Goran Frehse, Sergiy Bogomolov, Marius Greitschus, Thomas Strump and Andreas Podelski</i> Finite State Approximation for Verification of Partially Observable Stochastic Hybrid Systems <i>Kendra Lesser and Meeko Oishi</i> Statistical Verification of Nonlinear Systems Using Set Oriented Methods <i>Yu Wang, Nima Roohi, Matthew West, Mahesh Viswanathan and Geir Dullerud</i>	Realization of Nonlinear Real-Time Optimization Based Controllers on Self-Contained Trafemoral Prosthesis <i>Huihua Zhao, Jake Reher, Jonathan Horn, Victor Paredes and Aaron Ames</i> A Hybrid Model Predictive Controller for Path Planning and Path Following <i>Kun Zhang, Jonathan Sprinkle and Ricardo Sanfelice</i> Occupancy Estimation using Ultrasonic Chirps <i>Oliver Shih and Anthony Rowe</i> Uniprocessor EDF Scheduling of AVR Task Systems <i>Zhishan Guo and Sanjoy Baruah</i>	15:30 – 16:30 Location Competition Panel 16:30 – 17:30 IPSN Business Meeting	An Efficient Configuration Methodology for Time-Division Multiplexed Single Resources <i>Benny Akesson, Anna Minaeva, Premysl Sucha, Andrew Nelson and Zdenek Hanzalek</i> Task Placement and Selection of Data Consistency Mechanisms for Real-Time Multicore Applications <i>Zaid Al-bayati, Youcheng Sun, Haibo Zeng, Marco Di Natale, Qi Zhu and Brett Meyer</i> A Feedback Scheduling Framework for Component-Based Soft Real-Time Systems <i>Nima Khalilzad, Fanxin Kong, Xue Liu, Moris Behnam and Thomas Nolte</i> Mixed-Criticality Runtime Mechanisms and Evaluation on Multicores <i>Lukas Sigrist, Georgia Giannopoulou, Pengcheng Huang, Andres Gomez and Lothar Thiele</i>
18:30 – 21:30	Conference Banquet Chihuly Garden and Class 305 Harrison St, Seattle, WA 98109 · (206) 753-4940			

4/16 (Thursday)

	HSCC	ICCPs	IPSN	RTAS
8:15	Best Paper Award Announcements			
8:30 – 10:00	Plenary Keynote:		Up Close and Personal with Human-Robot Collaboration <i>Elizabeth Croft (University of British Columbia)</i>	
10:30 – 12:00	<p>Requirements for Hybrid Cosimulation Standards <i>David Broman, Lev Greenberg, Edward Lee, Michael Masin, Stavros Tripakis and Michael Wetter</i></p> <p>SpaTeL: A Novel Spatial-Temporal Logic and Its Applications to Networked Systems <i>Iman Haghghi, Austin Jones, Zhaodan Kong, Ezio Bartocci, Radu Grosu and Calin Belta</i></p> <p>Computing the Skorokhod Distance between Polygonal Traces <i>Rupak Majumdar and Vinayak Prabhu</i></p>	<p>SHARE: SoH-Aware Reconfiguration to Enhance Deliverable Capacity of Large-Scale Battery Packs <i>Liang He, Yu Gu, Cong Liu, Ting Zhu and Kang G. Shin</i></p> <p>Exploring Power-Voltage Relationship for Distributed Peak Demand Flattening in Microgrids <i>Zhichuan Huang, David Corrigan, Ting Zhu, Hongyao Luo, Xiaoxiong Zhan and Yu Gu</i></p> <p>The Energy Efficiency Problematics in Sports Facilities: Identifying Savings in Daily Grass Heating Operation <i>Mischa Schmidt, Alberto Venturi, Anett Schulke and Roman Kurpatov</i></p>	<p>Geo-referenced Proximity Detection of Wildlife with WildScope: Design and Characterization <i>Gian Pietro Picco, Davide Molteni, Amy Lynn Murphy, Federico Ossi, Francesca Cagnacci, Michele Corrà, and Sandro Nicoloso</i></p> <p>How Hot is Piping Hot? Lower Energy Consumption with Smarter Hot Water Delivery <i>Yong Sun, Anindya Prodhan, Erin Griffiths, and Kamin Whitehouse</i></p> <p>Samba: A Smartphone-Based Robot System for Energy-Efficient Aquatic Environment Monitoring <i>Yu Wang, Rui Tan, Guoliang Xing, Jianxun Wang, Xiaobo Tan, and Xiaoming Liu</i></p>	<p>Unifying Fixed- and Dynamic-Priority Scheduling based on Priority Promotion and an Improved Ready Queue Management Technique <i>Risat Mahmud Pathan</i></p> <p>Budgeted Generalized Rate Monotonic Analysis for the Partitioned, yet Globally Scheduled Uniprocessor Model <i>Jung-Eun Kim, Tarek Abdelzaher and Lui Sha</i></p> <p>Multicore Scheduling of Parallel Real-Time Tasks with Multiple Parallelization Options <i>Jihye Kwon, Kang-Wook Kim, Sangyoun Paik, Jihwa Lee and Chang-Gun Lee</i></p>
13:30 – 15:00	<p>First Steps toward Formal Controller Synthesis for Bipedal Robots <i>Aaron Ames, Paulo Tabuada, Bastian Schuermann, Wen-Loong Ma, Shishir Kolathaya, Matthias Rungger and Jessy Grizzle</i></p> <p>Vulnerability analysis of dynamic power networks to stochastic link failure attacks <i>Sai Pushpak, Amit Diwadkar and Umesh Vaidya</i></p> <p>Case Study - Towards Personalized Cancer Therapy Using Delta-Reachability Analysis <i>Bing Liu, Soonho Kong, Sicun Gao, Paolo Zuliani and Edmund Clarke</i></p>	<p>A Model-based Synthesis Flow for Automotive CPS <i>Peng Deng, Fabio Cremona, Qi Zhu, Marco Di Natale and Haibo Zeng</i></p> <p>Cyber-Physical Specification Mismatch Identification with Dynamic Analysis <i>Taylor T Johnson, Stanley Bak and Steven Drager</i></p> <p>Incorporating Emergency Alarms in Reliable Wireless Process Control <i>Bo Li, Lanshun Nie, Chengjie Wu, Humberto Gonzalez and Chenyang Lu</i></p>	<p>Reducing Multi-Hop Calibration Errors in Large-Scale Mobile Sensor Networks <i>Olga Saukh, David Hasenfrazt, and Lothar Thiele</i></p> <p>TARDIS: Software-Only System-Level Record and Replay in Wireless Sensor Networks <i>Matthew Tancreti, Vinaitheerthan Sundaram, Saurabh Bagchi, and Patrick Eugster</i></p> <p>SIFT: Building an Internet of Safe Things <i>Chieh-Jan Mike Liang, Börje Karlsson, Nic Lane, Junbei Zhang, Zheyi Pan, Zhao Li, and Feng Zhao</i></p>	<p>C'Mon: a Predictable Monitoring Infrastructure for System-Level Latent Fault Detection and Recovery <i>Jiguo Song and Gabriel Parmer</i></p> <p>dOSEK: The Design and Implementation of a Dependability-Oriented Static Embedded Kernel <i>Martin Hoffmann, Florian Lukas, Christian Dietrich and Daniel Lohmann</i></p> <p>A Generalized Model for Preventing Information Leakage in Hard Real-Time Systems <i>Rodolfo Pellizzoni, Neda Paryab, Man-Ki Yoon, Stanley Bak, Sibin Mohan and Rakesh Bobba</i></p>

	<p>Case Study - Temporal Logic Motion Planning using POMDPs with Parity Objectives <i>Mária Svoreňová, Martin Chmelík, Kevin Leahy, Hasan Ferit Eniser, Krishnendu Chatterjee, Ivana Černá and Calin Belta</i></p>		<p>SIoT: Securing the Internet of Things through Distributed System Analysis <i>Fernando Augusto Teixeira, Gustavo Vieira Machado, Pablo Marcondes Fonseca, Fernando Magno Quintão Pereira, Hao Chi Wong, José Marcos Silva Nogueira and Leonardo B. Oliveira</i></p>	
15:30 – 17:30	<p>Reactive Synthesis from Signal Temporal Logic Specifications <i>Vasumathi Raman, Alexandre Donzé, Dorsa Sadigh, Richard M. Murray and Sanjit A. Seshia</i></p> <p>Estimator-Based Reactive Synthesis under Incomplete Information <i>Rüdiger Ehlers and Ufuk Topcu</i></p> <p>Temporal Logic Control for Stochastic Linear Systems using Abstraction Refinement of Probabilistic Games <i>Mária Svoreňová, Jan Křetínský, Martin Chmelík, Krishnendu Chatterjee, Ivana Cerna and Calin Belta</i></p> <p>Cross-entropy Temporal Logic Motion Planning <i>Scott Livingston, Eric Wolff and Richard Murray</i></p>	<p>Analysis of the Coupling of Communication network and Safety Application in Cooperative Collision Warning Systems <i>Yaser Fallah and Masoumeh Khandani</i></p> <p>UrbanCPS: a Cyber-Physical System based on Multi-source Urban Infrastructure Data for Heterogeneous Model Integration <i>Desheng Zhang, Juanjuan Zhao, Fan Zhang and Tian He</i></p>		<p>Memory Efficient Global Scheduling of Real-time Tasks <i>Ahmed Alhammad, Saud Wasly and Rodolfo Pellizzoni</i></p> <p>Reverse-engineering Embedded Memory Controllers through Latency-based Analysis <i>Mohamed Hassan, Anirudh Kaushik and Hiren Patel</i></p> <p>A Framework for Scheduling DRAM Memory Accesses for Multi-Core Mixed-time Critical Systems <i>Mohamed Hassan, Hiren Patel and Rodolfo Pellizzoni</i></p> <p>A Predictable and Command-Level Priority-Based DRAM Controller for Mixed-Criticality Systems <i>Hokeun Kim, David Broman, Edward A. Lee, Michael Zimmer, Aviral Shrivastava and Junkwang Oh</i></p>