

IoT Program			
	16/10/2018	17/10/2018	18/10/2018
09:00am-10:00am	<b>09:00am Welcome</b> 09:10am Keynote Karl Johansson, KTH Royal Institute of Technology <i>"Connected and Automated Vehicles: Recent Research Developments in Road Goods Transport"</i>	09:10am Keynote Chandra Krintz, University of California at Santa Barbara <i>"SmartFarm: IoT Systems That Simplify and Automate Agriculture Analytics"</i>	09:10 invited talk Seta Bogosyanam, NSF CPS/IOT <i>"Quo vadis?: Potentials, Challenges, and Opportunities"</i>
10:00am-10:40am	<b>Security and Privacy of IoT - Part I</b> Chairs: to be announced 10:00am Waqar Asif, Indranil Ghosh Ray and Muttukrishnan Rajarajan. An Attack Tree Based Risk Evaluation Approach For The Internet of Things [FULL PAPER] 10:20am Li Duan, Yong Li and Lijun Liao. Flexible CRL for efficient authentication in IoT [FULL PAPER]	<b>Security and Privacy of IoT - Part II</b> Chairs: to be announced 10:00am Phu H. Nguyen, Phu H. Phung and Hong-Linh Truong. A Security Policy Enforcement Framework for Controlling IoT Tenant Applications in the Edge [FULL PAPER] 10:20am Paul Giura and Trevor Jim. Sapphire: Using network gateways for IoT security [FULL PAPER]	9:40 Smart City Panel
10:40am-11:00am	<b>Discussion Break</b>	<b>Discussion Break</b>	<b>Discussion Break</b>
11:00am-12:10pm	<b>Applications of IoT I</b> Chairs: to be announced 11:00am Mohammad Hasanzadeh Mofrad and Daniel Mosse. Speech Recognition and Voice Separation for the Internet of Things [FULL PAPER] 11:20am Sandro Rodriguez Garzon, Sebastian Walther, Shaoning Pang, Bersant Deva and Axel Küpper. Urban Air Pollution Alert Service for Smart Cities [FULL PAPER] 11:40am Farshid Salemi Parizi, Josh Fromm, Shantanu Deshpande and Shwetak Patel. RoyalFlush: Non-Invasive Water Level Monitor to Prevent Toilet Overflows [FULL PAPER] 12:00pm Sergio Trilles, Alberto González-Pérez and Joaquín Huerta Guijarro. A IoT proposal for monitoring vineyards called SEnviro for agriculture [SHORT PAPER]	<b>Web of Things Architecture I</b> Chairs: to be announced 11:00am Jacky Bourgeois, Gerd Kortuem and Fahim Kawsar. Trusted and GDPR-Compliant Research with the Internet of Thing [FULL PAPER] 11:20am Markel Iglesias-Urkiola, Diego Casado-Mansilla, Simon Mayer and Aitor Urbieta. Enhanced publish/subscribe in CoAP: Describing advanced subscription mechanisms for the Observe extension [FULL PAPER] 11:40am Kristina Sahlmann and Thomas Schwotzer. Ontology-based Virtual IoT Devices for Edge Computing [FULL PAPER]	<b>Best Paper Session</b> Chairs: Kyriakos Vamvoudakis, Armin Haller, Federica Cena 11:00am Hoan Nguyen Mau Quoc, Martin Serrano, John G. Breslin and Danh Le Phuoc. A learning approach for query planning on spatio-temporal IoT data [FULL PAPER] 11:20am Le Tuan Anh, Conor Hayes, Marcin Wylot and Danh Le Phuoc. RDF4Led: An RDF engine for Lightweight Edge Devices [FULL PAPER] 11:40am Victor Charpenay, Sebastian Käbisich and Harald Kosch. Semantic Data Integration on the Web of Things [FULL PAPER]
			<b>Closing &amp; Best Paper Award (Finish at 12:30pm)</b>
12:10pm-1:40pm	<b>Lunch Break</b>	<b>Lunch Break</b>	
1:40pm-2:50pm	<b>Pitchfest</b> Chairs: Armin Haller, Kyriakos Vamvoudakis, Federica Cena 1 Slide - 5min each for all Demo/Poster and Late Breaking Result papers	<b>Web of Things Architecture II</b> Chairs: to be announced 1:40pm Karamjit Kaur, Matt Selway, Alan Johnston, Georg Grossmann and Markus Stumptner. Towards an Open-standards based Framework for achieving Condition-based Predictive Maintenance [FULL PAPER] 2:00pm Sathya Kumaran Mani, Ramakrishnan Durairajan, Paul Barford and Joel Sommers. An Architecture for IoT Clock Synchronization [FULL PAPER] 2:20pm Mehdi Karimibiuki and Andre Ivanov. MiniCloud: A Mini Storage and Query Service for Local Heterogeneous IoT Devices [SHORT PAPER] 2:30pm Sourav Dutta and Sheheeda Manakkadu. On efficient resource allocation in the Internet of Things environment [SHORT PAPER] 2:40pm Rahul Majethia and Krishnan Rajkumar. Mining Channel State Information from Bluetooth Low Energy RSSI for Robust Object-to-Object Ranging [SHORT PAPER]	
2:50pm-3:10pm	<b>Afternoon Break</b>	<b>Afternoon Break</b>	
3:20pm-4:10pm	<b>Learning Approaches for IoT</b> Chairs: to be announced 3:20pm Maria Grammatopoulou, Aris Kanellopoulos and Kyriakos Vamvoudakis. A Multi-step and Resilient Predictive Q-learning Algorithm for IoT: A Case Study in Water Supply Networks [FULL PAPER] 3:40pm Young-Ho Suh, Sung-Pil Woo and Dong-Hwan Park. SLICE : Self-Learnable Common IoT Software Engine [FULL PAPER] 4:00pm Vijay Kanade. A Bio-Inspired Unsupervised Algorithm for Deploying [BoT] [SHORT PAPER]	<b>Applications of IoT II</b> Chairs: to be announced 3:20pm Chandra Krintz, Rich Wolski, Nevena Golubovic and Fatih Bakir. Estimating Outdoor Temperature from CPU Temperature for IoT Applications in Agriculture [FULL PAPER] 3:40pm Konrad Diwold, Simon Mayer, Ralf Mosshammer, Jack Hodges, Darko Anicic, Alfred Einfalt and Josiane Xavier Parreira. Grid Watch Dog: A Stream Reasoning Approach for Lightweight SCADA Functionality in Low-Voltage Grids [FULL PAPER] 4:00pm Alireza Farahmandi, Gary Hower, Brian Reitz, Katia Estabridis and Kyriakos Vamvoudakis. A Model Free Learning Algorithm to Control Autonomous Streams over IoT. [SHORT PAPER]	
4:10-6:00pm		<b>Break and Poster Session (4:20-6:00pm)</b>	