

10th Cloud Control Workshop Feb 27 - Mar 1, 2017

Monday February 27th

10:00 - 10:30	Coffee	
10:30 – 11:00	Workshop introduction Erik Elmroth, Umeå University, Sweden	
11:00 – 11:15	Presentation of the workshop program P-O Östberg, Umeå University, Sweden	
11:15 – 11:30	MPC over the Cloud - Problem Definition Karl-Erik Årzén, Lund University, Sweden	
11:30 – 11:45	Secret sauce for DDC - Research Questions Amir Roozbeh, KTH/Ericsson Research, Sweden	
11:45 – 12:00	Ultra Reliable Communication with Massive MIMO William Tärneberg, Lund University, Sweden	
12:00 – 12:15	Blackbox approach for diagnosing correlated anomalies in virtualized environments Olumuyiwa Ibidunmoye, Umeå University, Sweden	
12:15 – 13:15	Lunch	
13:15 – 13:30	ACTiCloud: Enabling the Next Generation Cloud Applications Ewnetu Bayuh Lakew, Umeå University, Sweden	
13:30 – 13:45	Reliable Capacity Provisioning and Enhanced Remediation for Distributed Cloud Applications (RECAP) P-O Östberg, Umeå University, Sweden	
13:45 – 14:45	Discussion session	
	Discussion #1 5G and Future Challenges Discussion leaders: Amardeep Mehta, William Tärneberg	Discussion #2 The roles of machine learning and control theory for cloud control applications Discussion leader: Anders Robertsson
14:45 – 15:00	Summary of discussion session	
15:00 – 15:30	Coffee	
15:30 – 18:30	Team Building activity: Cross-country skiing	
18:30 - 20:00	Dinner	
21:00 - 21:30	Cheese and crackers	

Tuesday February 28th

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8:30 – 8:45	Resource Management for Camera Systems Gautham Nayak Seetanadi, Lund University, Sweden		
8:45 – 9:00	Model Checking and Verification of Resource Management Algorithms Martina Maggio, Lund University, Sweden		
9:00 - 10:00	Joint work: time for spontaneous meetings about ongoing collaborations		
10:00 - 10:30	Coffee		
10:30 - 10:45	Fog and Edge computing Alessandro V. Papadopoulos, Mälardalen University, Sweden		
10:45 – 11:00	Introduction to Management Challenges for Software Defined Infrastructures Erik Elmroth, Umeå University, Sweden		
11:00 - 12:00	Discussion session		
	Discussion #3 Fog and Edge computing Discussion leader: Alessandro V. Papadopoulos	Discussion #4 Management Challenges for Software Defined Infrastructures Discussion leader: Erik Elmroth	
12:00 - 12:15	Summary of discussion session		
12:15 – 13:15	Lunch		
13:15 – 13:30	Dynamic control of NFV forwarding graphs with end-to-end deadline constraints Victor Millnert, Lund University, Sweden		
13:30 – 13:45	Cascaded control for differentiated cloud services Tommi Nylander, Lund University, Sweden		
13:45 – 14:45	Discussion session		
	Discussion #5 Service Chaining Discussion leader: Victor Millnert	Discussion #6 Mission Critical Cloud Infrastructure Discussion leader: Tommi Nylander	
14:45 - 15:00	Summary of discussion session		
15:00 – 15:30	Coffee		
15:30 – 17:30	Calvin Tutorial and hands on session (short intro to Calvin, in-depth CalvinScript, overview of CalvinConstrained, ProxyRuntimes, Storage, Replication, Scaling, introduction to RPi and Calvin) Per Persson, Ericsson Research, Sweden		
17:30 – 18:30	Discussion about Calvin: how can we use it and what can we build		
18:30 - 20:00	Dinner		
21:00 - 21:30	Cheese and crackers		

Wednesday March 1st

8:30 – 8:45	The experience of evaluating a scheduling algorithm through simulation Gonzalo Rodrigo, Umeå University, Sweden		
8:45 – 9:00	Adaptive learning in various types of task scheduling Mashid Helali, University of Kashan, Iran		
9:00 - 10:00	Joint work: time for spontaneous meetings about ongoing collaborations		
10:00 - 10:30	Coffee		
10:30 – 10:45	Overview of event-based control / Event-Based Server Control Anton Cervin, Lund University, Sweden		
10:45 – 11:00	State of the art on Resource Disaggregation Amir Roozbeh, KTH/Ericsson Research, Sweden		
11:00 - 12:00	Discussion session		
	Discussion #7 Resource Disaggregation Discussion leader: Amir Roozbeh	Discussion #4 Event-based modeling and control for cloud computing Discussion leader: Anton Cervin	
12:00 - 12:15	Summary of discussion session		
12:15 – 13:15	Lunch		
13:15 – 15:00	Closing remarks, summary of the workshop, and plans for continuation		
15:00 – 15:30	Coffee		