



Program

8th Cloud Control Workshop

Lövånger, Sweden
February 1 – 3, 2016

Monday February 1

10.00	Arrival at Lövånger kyrkstad – Coffee
10.30	Workshop introduction, overview of the project, survey of ongoing and completed projects/papers <i>Erik Elmroth, Umeå University, Karl-Erik Årzén och Maria Kihl, Lund University</i>
12.00	Lunch <i>Session Chair: Anders Robertsson</i>
13.00	<i>A wrap up on</i> <ul style="list-style-type: none">- <i>research done within the architecture community on Cloud Control</i>- <i>research performed in the cloud community in parallel to the cloud control project</i>- <i>relevant topics in cloud robotics</i> <i>Ahmed Ali-EIDin, Umeå University</i>
13.25	Discussion 1: What are today's hot topics in clouds and at Ericsson? Brainstorming for topics, e.g., for potential new proposal <i>Johan Eker, Lund University, Erik Elmroth, Umeå University.</i>
14.30	Scientific speed dating 1
15.00	Coffee
15.30	Discussion 2: How to use feedforward in cloud control? <i>Karl-Erik Årzén, Lund University</i>
16.30	Team building activities
19.00	Dinner

Non-scheduled sessions:

- The schedule is deliberately done with a single track to leave room for additional planned or spontaneous sessions to be organized in parallel, i.e., for work in on-going projects or to initiate new collaborations.
- People formally involved in WASP will have one such parallel session, preliminary on Tuesday at 13.00

Tuesday February 2

Session Chair: Karl-Erik Årzen

8.15	Discussion 3: Introduction to Calvin and a Telco cloud testbed followed by discussion <i>Johan Eker, Ericsson</i>
9.15	Scientific speed dating 2
9.45	Coffee <i>Session Chair: Maria Kihl</i>
10.15	Network bandwidth allocation for geo-replicated services - a control perspective <i>Jonas Durango, Lund University</i>
10.30	System dynamics for Telco-cloud <i>Amardeep Mehta, Umeå University</i>
10.45	Discussion 4: Decentralized resource allocation in datacenters and telco clouds <i>Martina Maggio, Lund University and Amardeep Mehta, Umeå University</i>
12.00	Lunch <i>Session Chair: Martina Maggio</i>
13.00	Dead-time compensated elasticity control <i>Manfred Dellkrantz, Lund University</i> Using Dynamic Voltage Frequency Scaling and CPU Pinning for Energy Efficiency in Cloud Computing <i>Jakub Krzywda, Umeå University</i> Three Pieces of Ongoing Work <i>Zheng Li, Lund University</i> Data-driven Latency Prediction for Web Services <i>Olumuyiwa Ibidunmoye and Abel Souza, Umeå University</i>
14.00	Discussion 5: Analytics for cloud service and infrastructure management <i>Olumuyiwa Ibidunmoye, Umeå University</i>
15.00	Coffee
15.30	Discussion 6: How to work in the CC-project, routines and approaches for better collaborations <i>Erik Elmroth, Umeå University</i>
16.30	Team building activities
19.00	Dinner

Wednesday February 3

Session Chair: Cristian Klein

8.00	Trends and research problems in HPC <i>Gonzalo Rodrigo, Umeå University</i> Development of a Hybrid Resource Manager for HPC <i>Abel Souza, Umeå University</i> Composition of services with buffer and deadline constraints: the Cloud use case <i>Victor Millnert, Lund University</i>
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8.45	Discussion 7: Scheduling of workflows with deadline constraints <i>Ewnetu Bayuh Lakew and Gonzalo Rodrigo, Umeå University</i>
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9.45	Coffee
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Session Chair: P-O Östberg

10.15	State-of-the-Art in reducing tail latency? <i>Ahmed Ali-EIDin, Umeå University</i>
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10.30	Discussion 8: Reproducible experiment design <i>Cristian Klein, Umeå University</i>
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11.15	Discussion 9: Representative Experiment design. Are our results relevant? <i>Ahmed Ali-EIDin, Umeå University</i>
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12.00	Lunch
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Session Chair: Erik Elmroth

13.00	Discussion 10: New challenges and possibilities by moving from VMs to containers <i>Cristian Klein, Umeå University</i>
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14.00	<i>Concluding remarks</i> <i>Erik Elmroth, Umeå University</i>
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14.15	Coffee
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14.30	Departure for participants from Lund
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