

Welcome to Cloudberry Day 2020

Welcome to the second Cloudberry Day seminar within the Cloudberry Datacenters project. Our PhD students will present their results so far and future work during 15 mins. presentations. A short Q&A session will follow after each presentation. Due to the Coronavirus situation, we will perform the seminar fully digitized in Zoom this year: <https://ltu-se.zoom.us/my/bjobac>

Looking forward to exciting presentations and nice discussions! More information is available at <http://www.cloudberry-datacenters.com>.

No registration is needed!

Karl Andersson, Michael Nilsson, and Björn Backe

Day: Friday 15 May 2020

Time: 10:00-15:10

10:00-10:10	Welcome and short introduction	Karl, Michael and Björn
10:10-10:30	Where are data centers ten/twenty years from now? From an energy perspective	Simin Hajizadeh
10:30-10:50	Data centers waste-heat utilization and urban planning	Cristina Ramos Cáceres
10:50-11:10	Numerical approximations for modeling convective heat transfer in a data-center	Henrik Barestrand
11:10-11:30	Transient Simulations of Data Center Thermal Conditions Using the Lattice Boltzmann Method on Multiple Graphics Processing Units	Johannes Sjölund
11:30-11:50	Data center heated greenhouses, a matter for enhanced food self-sufficiency in Norrbotten	Hampus Lundholm Ljungkvist
11:50-12:10	Efficiency and Reliability evaluation of the internal power supply system in a hyper-scale datacenter	Kazi Main Uddin Ahmed
12:10-13:00	LUNCH BREAK	
13:00-13:20	Study of probable power quality disturbances within a data center	Jil Sutaria
13:20-13:40	Probabilistic modeling of thermal grids	Johan Simonsson
13:40-14:00	Modeling and automatic control of server wind tunnel setup	Sebastian Fredriksson
14:00-14:20	Towards multi-agent control in energy-efficient data centres	Yulia Berezovskaya
14:20-14:40	Resource efficiency in software processes and communication in data clouds and data centers	Lara Lorna Jiménez
14:40-15:00	Addressing Mobility Issue in Deregulated Energy Market using Permissioned Blockchain Solution	Ahmed Afif Monrat
15:00-15:10	Concluding remarks, next steps	Karl, Michael, and Björn