

WASP LSOAL Program

October 13 and 14, 2020 at
KTH Royal Institute of Technology, Sweden and on Zoom

October 13

13.00 – 13.30	Minimax adaptive control	Anders Rantzer, LU
13.30 – 14.00	Meta-Learning for Autonomous Optimization	Arun Venkitaraman , KTH
14.00 – 14.30	A learned step-size policy for limited memory BFGS	Lucas Egidio, LiU
14.30 – 15.00	Exact complexity certification of Active-Set QP Methods	Daniel Arnström, LiU
15.00 – 15.30	Coffee break	
15.30 – 16.00	Nonlinear forward backward splitting with projection correction	Pontus Gieselsson, LU
16.00 – 16.30	On the Convergence Properties of Stochastic Gradient Descent with Bandwidth-based Step Size	Xiaoyu Wang, KTH
16.30 – 17.00	Convergence of a Stochastic Gradient Method with Momentum for Non-Smooth Non-Convex Optimization	Mai Van Vien, KTH
17.00 – 17.30	Bias in SAG-like Variance Reduced Stochastic Gradient Methods	Martin Morin, LU

October 14

09.00 – 09.30	Neural Network Approaches for Model Predictive Control	Bo Wahlberg, KTH
09.30 – 10.00	An Optimization-Based Receding Horizon Trajectory Planning Algorithm	Kristoffer Bergman, LiU
10.00 – 10.30	Coffee break	
10.30 – 11.00	Optimisation approaches for scheduling of a configurable safety-critical electronic system	Elina Rönnerberg, LiU
11.00 – 11.30	Distributed localization using Levenberg-Marquardt algorithm	Shervin Parvini Ahmadi, LiU
11.30 – 12.00	A flexible framework for communication-efficient machine learning: from HPC to IoT	Sindri Magnusson, KTH
12:00 – 12.30	Incremental abstractions for optimal control of modular systems	Bengt Lennartson, Chalmers