Carolina Lidström

Lund University Department of Automatic Control Box 118 SE-221 00 Lund, Sweden		carolina.lidstrom@control.lth.se control.lth.se/Staff/carolinalidstrom Skype: carolina.lidstrom Phone: +46 46 222 15 70
Education	Ph.D. student in Auton June 2013 – June 2018 (ex Advisor: Anders Rantzer Co-advisors: Bo Bernhards	natic Control, Lund University son and Richard Pates
	Thesis topic: Modeling and with applications in power	distributed control of large-scale systems networks
	M.Sc. in Engineering P August 2008 – May 2013 GPA: 4.97/5	hysics, Lund University
	Exchange student at Univer August 2011 – June 2012. Master's Thesis in Automa of the Molecular Layer Inte	rsity of California, San Diego, USA. GPA: 3.6/4 tic Control with title <i>Network Analysis</i> erneurons in the Cerebellum.
Research Interests	Control of complex systems with focus on distributed control. Scalability of conventional control methods.	
Publications	Peer reviewed conference C. Lidström and A. Rantze <i>Optimal H-infinity state fee</i> <i>and Hurwitz state matrix.</i> IEEE American Control Co	ce publications er. edback for systems with symmetric onference (ACC), 2016, 3366–3371.
	C. Lidström, A. Rantzer an <i>H-infinity optimal control f</i> with strictly negative general IEEE 55th Conference on I 5275-5280.	nd K. A. Morris. For infinite-dimensional systems ator . Decision and Control (CDC), 2016,
Research Visits	Institute for Mathemati University of Minnesota Visiting student, September	ics and its Applications, a, Minneapolis, USA r-October 2015 and May 2016

Reviews	Reviewer for IEEE American Control Conference 2017 and European Control Conference 2016.	
Workshops	Institute for Mathematics and its Applications, University of Minnesota, Minneapolis, USA	
	Distributed Control and Decision Making Over Networks September 28 – October 2, 2015 Presented a poster on distributed H-infinity Control	
	Analysis and Control of Network Dynamics October 19-23, 2015	
	Control at Large Scales: Energy Markets and Responsive Grids May 9-13 , 2016 Presented a poster on control of the heat equation	
	Workshop at CDC 2014, Los Angeles, USA How to Engineer Resilient Cyber-Physical Infrastructures	
	LCCC Linnaeus Center, Lund Dynamics and Control in Networks, 15-17 Oktober, Lund.	
Internship	The Scripps Research Institute, San Diego, USA Internship in Bioinformatics, Spring 2012.	
Pedagogical Training	Over five weeks of pedagogical training including: Introduction to Teaching and Learning in Higher Education (3 ECTS), Communicating Science (5 ECTS).	
Teaching	Department of Automatic Control, Lund University Instructor, Physiological Models and Computation, 2013–2016 Gave lectures, constructed material for exercise sessions, exams and supervised weekly tutorials.	
	Teaching assistant, Network Dynamics, 2015–2016 Constructed material for exercise sessions, exams and supervised weekly tutorials.	
	Department of Mathematics, Lund University Teaching assistant, Numerical linear algebra, 2012	
	Department of Physics, Lund University Teaching assistant, basic course for engineering students, 2009	

Relevant Courses	Convex Optimization (7.5 ECTS), Matrix Theory (7.5 ECTS), Network Dynamics (9 ECTS), Robust Control (9 ECTS), Functional Analysis in System Theory (9 ECTS), Theory of Stochastic Processes (7.5 ECTS), Optimal Control (7.5 ECTS), Linear Systems (9 ECTS), Bioinformatics (5 ECTS), Integration Theory (7.5 ECTS), Electric Power Systems (7.5 ECTS), Statistical Machine Learning (9 ECTS), Introduction to Research Methodology, Ethics, and Innovation for Computing Disciplines (4.5 ECTS)
Miscellaneous	Chairing project meetings Project ICT-Psi monthly meetings
	Working group on gender equality and diversity at the Department of Automatic Control, Lund University Arrange seminars and discussion sessions to raise awareness on gender equality and diversity at the university.
	Other Arranged study visit for girls from high school at the Department.
Languages and Skills	English (advanced), Swedish (native), French (baisc) MatLab, LAT _E X, Python, Java, Mathematica