

CURRICULUM VITÆ OF CHARLOTTA JOHNSON

As of 2015-09


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Personal Data

Full name	Inger Charlotta Johnsson	
Born	September 6, 1970	
Citizenship	Swedish	
Civil Status	Married, three children (1999, 2001, 2007)	

Exams

- **Docent (British: Reader)** in Automatic Control, Lund University, Sweden, March 2011.
- **Excellent Teaching Practitioner (ETP) diploma** (teaching and learning in higher education), LTH, Lund university, Sweden, January 2011.
- **Ph.D.** in Automatic Control, Lund University, Sweden, March 25, 1999.
Title: A Graphical Language for Batch Control
- **Teknologie Licentiate** in Automatic Control, Lund University, Sweden, June 6, 1997.
Title: Recipe-Based Batch Control Using High-Level Grafchart.
- **M.Sc.** in Electrical Engineering, Lund University, Sweden, August 1993.
- **Erasmus Student** (exchange student) at Institut National Polytechnique de Grenoble, France, 1992 – 1993.

Employments

- **Visiting scholar** at UC Berkeley, Center Entrepreneurship and Tech., Fung Inst. 2013-2014.
- **Adjunct Professor** at Control Science and Engineering, Zhejiang University, Hangzhou, China, Sept-Oct 2012.
- **Associate professor** (Swedish: lektor), Department of Automatic Control, Lund University, 2007-present
- **Senior Research Associate** (Swedish: forskarassistent), Dept. of Automatic Control. Lund University, 2004–2007
- **Product Manager**, Siemens Orsi Automation SpA, 2002–2004
- **System Architect**, Siemens Orsi Automation SpA / Orsi Automazione SpA, 2000–2002
- **PhD student**, Dept. of Automatic Control, Lund University, 1993–1999.

PhD Supervision

- Alfred Theorin “Tools for Industrial Automation”, 2010-2014. Licentiate degree May 20 2013, PhD degree November 14 2014.
- Anna Lindholm “Methods for Handling Plant-wide Utility Disturbances”, 2009-2013. Licentiate degree October 28, 2011, PhD degree October 11, 2013.
- Kristian Soltész, (co-supervisor), “PID Tuning and Anesthesia”, 2008-2014. Licentiate degree January 20, 2012, PhD degree September 13, 2013.
- Ola Johnsson, “Fed-batch control”, 2010-present. Licentiate degree October 18, 2013.

Research Profile

My research as always been driven by my own curiosity combined with industrial needs and interest. Today my research can be divided into into four areas; Automation-Control, Technology Management-Engineering Leadership, Innovation-Entrepreneurship, and Teaching and Learning in Higher Education. I started my research career as a PhD-student in 1993, with a focus on Automation-Control

(focus on Graphical Programming Languages for Discrete Event systems and Batch Control Applications). After dissertation (1999) I left university for about 5 years working in industry as system architect and product manager for Orsi Automazione SpA, later Siemens MES, in Italy. Back at Lund University in 2004 I extended my research in the domain of Automation-Control to also include: MOS (Manufacturing Operations Systems), interoperability, plant-wide perspectives, and operational excellence. My research interest in the domain of Technology Management-Engineering Leadership domain started with my role as Program Director for the Technology Management Master program, a program that contains strong elements of leadership and innovation. I am curious about the transformational journey from student to a developed leader and/or entrepreneur. This curiosity is closely linked to pedagogical issues, i.e. the research domain Teaching and Learning in Higher Education. As a visiting scholar at the Center for Entrepreneurship and Technology at UC Berkeley, I actively participated in the research and development of Berkeley Method of Entrepreneurship (BMoE). I am currently involved in four major research projects; Lund Centre for Control of Complex Engineering Systems (LCCC), Process Industrial Centre Lund University (PICLU), Process Industrial Centre (PIC) and Line Information Systems Architecture2 (LISA2). I am involved in the development of industrial standards; ISA95 and IEC 62264 (MES), ISA88 (Batch) and ISO 22400 (KPIs). I am also involved in Global Venture Lab at UC Berkeley.

I have published:

- 1 PhD thesis and 1 licentiate thesis.
- 20+ articles in refereed international journals and books/reports.
- 70+ papers at international conferences (peer-reviewed).
 - Out of these publications 15+ are focused on pedagogical issues.
 - Out of these publications 25+ have a cross-disciplinary focus.
 - Out of these publications 10+ have an innovation focus.
 - Out of these publications 10+ have co-authors from industry.
- 20+ other publications (reports, whitepapers, press-articles, etc).
- Several invited presentations, mainly within industry

Teaching and Learning Profile

I have always enjoyed teaching and being among students. This has also resulted in a position (10%) at the pedagogical group within the engineering faculty (2008-2010), as well as a position as Program Leader (20%) for the Technology Management program (2009-2015). Most fascinating is to see the students' motivation and driving force, how much they can learn and what excellent work the students can perform. I have experience in teaching undergraduate and graduate students as well as industry representatives (groups from 3-4 up to 200 attendees) in both semester courses and day-seminars. I was leading the organization of a joint course for the Technology Management students and students from Zhejiang University, China. The course intertwined leadership and technology in four dimensions; students, teachers, subjects and cultures. The course started fall-2012.

- I have supervised/examined around 25 Master theses projects (2004-present).
- I am involved/responsible for 2-5 courses per year.

I like to follow various courses that broaden my insights and/or deepen my understanding.

- I have taken various courses regarding; economics, leadership, pedagogy gender, organizations, research management, etc (2004-present).

Additional information

It has always been important to me to stay in touch with the national and international industries and organizations within my research and teaching field. I am currently active in Sesam-Sweden, MESA, ISO, IEC, IFAC, ISA, etc. My courses often include industrial visits, guest lectures and/or projects. I am often involved in competence development courses for industry. I like to work in international environments. I have been an exchange student (France), I have spent time abroad as a PhD student (Purdue University, USA), I was employed abroad for several years (Genova, Italy), I have extended the Technology Management program with a cross-disciplinary international course (Zhejiang University, China) and I have been a visiting scholar abroad (UC Berkeley, CA, USA). I speak Swedish (native), English (fluent), Italian (good), French (good) and German (initial). I saved the best for last; my family and friends. I love to be with my husband and our three kids, friends and relatives.

Lund, Sweden, Sept 2015
Charlotta Johnsson