

CURRICULUM VITÆ OF CHARLOTTA JOHNSON

As of 2014-04


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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, Fung institute for Engineering Leadership, 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

- Anna Lindholm "Upset Management – Developing Methods for Handling Plant-wide Disturbances", 2009-2014. Licentiate degree October 28, 2011, PhD degree October 11, 2013.
- Alfred Theorin, "Graphical Languages for Industrial Automation", 2010-present. Licentiate degree May 20, 2013.
- Kristian Soltesz, (co-supervisor), "PID Tuning", 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 industrial needs and interest. I started my career as a PhD-student in 1993, the research was then focused on Graphical Programming Languages for Discrete

Event systems and Batch Control Applications. After dissertation (1999) I left university for almost 5 years and worked in industry for Orsi Automazione SpA and Siemens in Italy. Back at the university in 2004 I continued to look at Graphical Programming Languages, for control applications as well as for MOS (Manufacturing Operations Systems). I am interested in programming constructs suitable for the MOS domain. My research led me to the Process Industry where my research is focused on reduction of plant-wide disturbances in utilities and on feb-batch control. Today my research interest falls into the domain of Operation management with focus on production at the strategic, tactical and operational level. 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 Architecture (LISA). I am involved in the development of industrial standards; ISA95 and IEC 62264 (MES), ISA88 (Batch) and ISO 22400 (KPIs).

I have published:

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

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-present). Most fascinating is to see the students' motivation and driving force, how much they can learn and what excellent work they 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 responsible for 2-4 courses every year and involved in 3 additional courses.

Teaching and learning are closely related to each other. When teaching (giving courses) you also learn, and when learning (taking courses) you also get influences on how to teach. 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. As a consequence of this, my research falls in the domain of applied research. I am currently active in MESA (Manufacturing Enterprise Solutions Association), WBF (the organization for production technology), ISO (international organization for standardizations, IEC (international Electrotechnical Committee), IFAC (International Federation of Automatic Control), and ISA (International Society of Automation). My courses include industrial visits, guest lectures and/or projects, and I am 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 love to be with my family; my husband and our three kids. I like running and skiing.

Lund, Sweden, April 2014
Charlotta Johnsson