

# CURRICULUM VITÆ OF CHARLOTTA JOHNSON

As of 2016-02


## Office Address

Charlotta Johnsson  
Department of Automatic Control, LTH  
Lund University  
Box 118, 22100 Lund, Sweden  
Phone: (+46) 46 222 8789  
Email: [charlotta.johnsson@control.lth.se](mailto:charlotta.johnsson@control.lth.se)

## Home Address

Charlotta Johnsson  
Timjanvägen 14  
227 38 Lund  
Sweden  
Phone: (+46) 46 148789

## Personal Data

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

## Current position:

- Associate Professor (Swe: lektor), Dept. of Automatic Control, Lund University, 2007-present.

## Employments

- **Visiting scholar** at UC Berkeley, Center for Entrepreneurship and Technology, Fung Institute, UC Berkeley, CA, USA, July 2013 – July 2014.
- **Entrepreneurial/Startup experience**; BlueGlueMedia, SiteMinder and LogoFlex.
- **Adjunct Professor** at Control Science and Engineering, Zhejiang University, Hangzhou, China, Sept-Oct 2012.
- **Program Director (20%)**, Technology Management programme, Lund University, 2009-2015.
- **Pedagogical consultant (10%)**, Genombrottet, LTH, Lunds universitet, 2008-2012.
- **Associate professor** (Swedish: lektor), Department of Automatic Control, Lund University, 2007-present.
- **Senior Research Associate** (Swedish: forskarasistent), 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.

## 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.

## PhD students awarded doctorates

- **Ola Johnsson** (2016) "Perturbation-based Control of Industrial Fed-batch Bioprocesses".
- **Alfred Theorin** (2014) "A Sequential Control Language for Industrial Automation".
- **Kristian Soltesz** (2013) "On Automation in Anesthesia".
- **Anna Lindholm** (2013) "Hierarchical Scheduling and Utility Disturbance Management in the Process Industry".

## Awards and Distinctions

- “Familjen Knut och Ragnvi Jacobsons stiftelse”, 2014, for research in Entrepreneurship.
- “Lund University Scholarship (Swe: meriteringsstöd)”, 2013.
- “Dr Guido Carlo-Stella Award in Manufacturing Automation” from the World Batch Forum, 2012, for achievements in manufacturing automation and information structuring.
- Best paper track award at IFAC’s INCOM conference, 2012.
- Excellent Teaching Practitioner at the Pedagogic Academy of LTH, Lund University, 2011.
- “Knut and Alice Wallenberg’s scholarship for newly graduated women”, 2001.
- “Trollhättans stads stipendium” in 1996.

## National and International Assignments of Importance

- Lund Centre for Control of Complex Engineering Systems (LCCC),
  - Vice coordinator 2010-July 2013.
  - Board member, since 2008.
- Board member of Process Industrial Centre Lund University (PICLU), since 2008.
- Director of Process Industrial Centre OPIC (PIC-opic), 2012-2014.
- Steering committee member Production Technology West at Hogskolan Vast, Trollhattan, since 2013.
- Program Director Technology Management, 2009-2015.
- Board member of Technology Management Centrum, 2008-2011.
- Member in SmartFactory, DFKI, Kaiserslautern, Germany, since 2013.
- Board member of PiiA (Process industrial IT and Automation) Research Group, since 2014.
- Board member and co- founders of SESAM-Sverige (Network for Industrial IT), since 2011.
- MESA (Manufacturing Enterprise Solutions Association)
  - Member in working group developing B2MML, BatchML and KPI-ML, since 2014.
- WBF (World Batch Forum)
  - Treasurer (2006-2008),
  - Director European Operations (2004–2012),
  - Director Educational committee (2001–2004),
  - Conference Chair European conference (2004, 2006, 2008),
  - Parliamentarian (2005–2006),
  - Trustee (2005–2012).
- ISO (International Standardization Organization);
  - Swedish expert in ISO 22400, since 2010
  - Editor of ISO 22400-Part1
- ISA (International Society of Automation)
  - Active voting member in ISA95 and ISA88, since 2001.
  - ISA District 12 Educational Chair, 2004–2005.
- IEC/ISO 62264
  - Swedish expert in Joint Working Group 5, since 2005
- SIS and SEK (National standardization bodies)
  - Member in Strategic Advisory Group for Industry 4.0/SmartManufacturing, since 2016.
- Member of PhD committees (2012, 2011) and Licentiate committees (2010,2008,2002).
- Member of International Program Committees of several conferences.

## Research Profile

My research has always been driven by my own curiosity combined with 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 MOM (Manufacturing Operations Management). I am interested in programming constructs suitable for the MOM 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 interested in Key Performance Indicators and Operations Metrics. I am currently involved in larger research projects; Lund Centre for Control of Complex Engineering Systems (LCCC), Process Industrial Centre Lund University (PICLU), and Line Information Systems Architecture (LISA). During the last 20 years, I have been involved in the development of industrial standards; ISA95 and IEC 62264 (MOM), ISA88 (Batch) and ISO 22400

(KPIs). I am also involved in the Strategic Advisory Group for Swedish Standardization Institute with focus on Industry 4.0/Smart Manufacturing.

I also have broad research interests in the domains of; Technology Management-Engineering Leadership, Innovation-Entrepreneurship, and Teaching and Learning in Higher Education. I like cross-disciplinary work and to collaborate with peers from various research fields.

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).
  - 15+ are focused on pedagogical issues.
  - 25+ have a cross-disciplinary focus.
  - 10+ have an innovation focus.
  - 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. 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 supervised/examined around 25 master thesis projects and I am responsible/involved in 2-5 courses every year.

- My interest in pedagogy has resulted in a position (10%) at the pedagogical group within the engineering faculty (2008-2012), where I developed and lead pedagogical courses for faculty members, and headed the pedagogical newsletter.
- I also held a position as Program Director (20%) for the Technology Management program (2009-2015), a unique master program combining engineering and management students for cross-disciplinary studies over the period of 2 years. Among other initiatives, I was leading the organization of a joint course for the Technology Management students and students from Zhejiang University, China. The course intertwined technology and management in four dimensions; students, teachers, subjects and cultures. The aim of the course was to develop a technology-centered prototype of a market validated innovation. Among others, the course included a visit to a control system provider, as well as a lecture about Automation and its wide applicability in process industries and elsewhere. The course was given once per year 2012-2014.
- I have an interest in Executive Education and was involved in the Engineering Leadership Professional Programme at UC Berkeley, an MBA-like programme for engineers with 5-10 years of professional experience.

I consider continued education and life long learning as an important factor of your personal and professional development. I have therefore attended several courses myself, but also developed and provided courses for industry professionals.

- Courses attended: Economy, organization, gender issues in education, pedagogics in higher education, academic leadership (AKKA), Understanding Group and leader (UGL) etc.
- Courses given: Introduction to ISA95 and Enterprise-Control integration (given at several World Batch Forum conferences and to several companies), Learn ISA88 and Batch control (given at several World Batch Forum conferences and to several companies), Control of Industrial Processes, etc.

## Outreach and Additional Information

It is important to me to stay in touch with national and international industries and organizations. I am currently active in several networks and organizations; Sesam-Sweden, MESA, ISO, IEC, IFAC, ISA, etc. I am also involved in Global Venture Lab at UC Berkeley and European Innovation Academy. I have international experience as a PhD student (Purdue University, USA), and as an employee (Genova, Italy), as course responsible (Zhejiang University, China) and as a visiting scholar (UC Berkeley, CA, USA). I speak Swedish (native), English (fluent), Italian (good), French (good) and German (initial). I love to be with my husband and our three kids, and with our friends and relatives.