

PUBLICATION LIST for Charlotta Johnsson

As of 2011-03

Monographs

1. Johnsson. C. (1999): "A Graphical Language for Batch Control", Ph.D. thesis, ISRN LUTFD2/TFRT—1051—SE, Department of Automatic Control, Lund Institute of Technology, Sweden, March 25, 1999.
2. Johnsson C., (1997): "Recipe-Based Batch Control Using High-Level Grafchart", Licentiate thesis, ISRN LUTFD2/TFRT—3217—SE, Department of Automatic Control, Lund Institute of Technology, Sweden, June 6, 1997.

Books and Book Chapters:

3. Johnsson C., (2010): "Graphical Languages for Enterprise Control",
Published in New trends in Technologies, ISBN 978-953-7619-X-X, Förlag, 2010
4. **Johnsson C. (2008): "Doktoranders väg mot disputationen – institutionens gemensamma ansvar",**
Published in Osynligt och Självklart: en antologi med exempel på ledarskap i undervisning och lärande i högre utbildning", ISBN 978-91-977974-0-5, Media-tryck, Lund, 2008

Reviewed Journal Paper

5. Johnsson C. and Nilsson K. (2011): "Industrial Robotics and ISA88 Batch Control Standard, Challenges and Opportunities",
Submitted to Production and Operations Management Journal.
6. Lindholm A, Carlsson H. and Johnsson C. (2010): "Plant-Wide Utility Disturbance Management (UDM) in Process Industry",
Submitted to Control Engineering Practice.
7. Johnsson C. and Arzen K.-E. (1998): "On Batch Recipe Structures Using High-Level Grafchart",
Published in European Journal of Automation, Vol. 32, nr 9-10, p. 1139-1163.
8. Johnsson C. and Arzen K.-E. (1998): "Grafchart for Recipe-Based Batch Control",
Published in Computers and Chemical Engineering, Volume 22, nr 12, p. 1811-1828.
9. Johnsson C., Viswanathan S., Srinivasan R., Venkatasubramanian V., and Arzen K.-E. (1998): "Automating Operating Procedure Synthesis for Batch Processes: Part 2. Implementation and Application".
Published in Computers and Chemical Engineering, Volume 22, nr 11, p. 1687-1698.
10. Viswanathan S., Johnsson C., Srinivasan R., Venkatasubramanian V., and Arzen K.-E. (1998): "Automating Operating Procedure Synthesis for Batch Processes: Part 1. Knowledge Representation and Planning Framework",
Published in Computers and Chemical Engineering, Volume 22, nr 11, p. 1673-1685.
11. Simensen J., Johnsson C. and Årzén K.-E. (1997): "A Multiple-View Batch Plant Information Model".
Published in Computers and Chemical Engineering, Volume 21.
12. Arzen K.-E. and Johnsson C. (1996): "Object-oriented SFC and ISA-S88.01 recipes",
Published in ISA Transactions, nr 35, p.237-244.

Conference Papers and Presentations:

1. Johnsson C, Nilsson F., Erlingsdottir G., Nilsson C.-H., Alsen G. (2011): "The usage of Learning Journals in a Technology Management Education",
Accepted to International Technology Management Conference (ITMC) 2011, San Jose, CA, USA, June 2011.
2. Lindholm A., Carlsson H., Johnsson C., (2011): "Methods for Handling Plant-wide Disturbances in the Process Industry",
Accepted to 18th IFAC World Congress 2011, Milano, Italy, August, 2011.
3. Johnsson O., Andersson J., Johnsson C., (2011): "Probing control in B. Licheniformis fermentations",
Accepted to 18th IFAC World Congress 2011, Milano, August, 2011.
4. Lindholm A. and Johnsson C (2011): "Estimation of Revenue Loss due to Disturbances on Utilities in the Process Industry",
Accepted to POMS'11, Reno, NV, USA, April 2011.
5. Soltesz K., Johnsson C., Hägglund T. (2011): "Teaching Control Principles to Industry Practitioners",
Submitted to European Society for Engineering Education (SEFI) 2011, Lisbon, Portugal, September 2011.
6. Johnsson C. (2010): "Quantifying the benefits of an MES implementation",
Submitted to MESA 2010, Dusseldorf, Germany, November, 2010. Never presented.
7. Lindholm A., Carlsson H., Johnsson C. (2010): "Availability Estimations for Utilities in the Process Industry",
Presented at Nordic Process Control Workshop, Lund, Sweden, August 2010.
8. Lindholm A., Forsman K., Johnsson C., (2010): " Buffer Management Strategies for Improving Plant Availability",
Presented at Reglerteknikkonferens, Lund, Sweden, June 2010.
9. Lindholm A., Forsman K., and Johnsson C. (2010): "A General Method for Defining and Structuring Buffer Management Problems",
Presented at ACC 2010, Baltimore MD, USA, June 2010.
10. Farias F., Johnsson C., Filho R.M. (2010): "Operator Support and Training in the Characterization of Heavy Oil using Grafchart",
Submitted to Escape 2010, Naples, Italy, June 2010. Never presented
11. Otter M., Malmheden M., Elmqvist H., Mattsson S.-E., Johnsson C. (2009): "A New Formalism for Modeling of Reactive and Hybrid Systems",
Presented at 7th Modelica Conference, Como, Italy, Sept 2009.
12. Johnsson C. (2009): "Implementation Strategy for an EBR-Solution",
Presented at ISA Expo 2009, Houston TX, USA, October 2009.
13. Johnsson C. (2008): "Graphical Languages for Manufacturing Operations",
Presented at POM 2008, Tokyo, Japan, 5-7 August 2008.

14. Johnsson C., Nilsson C.-H., (2008): "Teaching Manufacturing Operations and Strategies in Higher Education"
Presented at POM 2008, Tokyo, Japan, August 2008.
15. Johnsson C. (2008): "Graphical Languages for Business Processes and Manufacturing Operations" IFAC 2008, Seoul, South Korea, 6-11 July 2008
16. Johnsson C. (2008): "Robotics and ISA 88 Batch Control Standard - Opportunities and Challenges", POM 2008, Tokyo, Japan, 5-7 August 2008
17. Johnsson C., Nilsson C.-H., (2006): "Teaching Manufacturing Strategies and Structures in Higher Education" ,
Presented at WBF'06, Atlanta, USA, March 2006
18. Cervin A., Johnsson C., Robertsson A., Ryden T., (2006): "Återkoppling som del i lärandeprocessen",
Presented at LTHs pedagogiska inspirationskonferens, June 2006, Lund.
19. Cervin A., Johnsson C., Robertsson A., (2006): "Återkoppling mellan lärare och studenter ur ett reglertekniskt perspektiv",
Presented at LTHs pedagogiska inspirationskonferens, June 2006, Lund.
20. Johnsson C., Parhamifar E., Ödling P., (2006): "Engagerande undervisning – en genusfråga?"
Presented at LTHs pedagogiska inspirationskonferens, June 2006, Lund.
21. Johnsson C., Brandl D., Unger K., (2005): "ISA 95 – The vendor, end-user, academic and consultant perspective",
Presented at WBF'05, Atlantic City, USA, May 2005.
22. Johnsson C., (2004): "Applying ISA 95 – a vendor perspective"
Presented at ISA Expo 2004, Houston, USA, October 2004
23. Johnsson C., (2004): "ISA 95 - how and where can it be applied?"
Presented at ISA Expo 2004, Houston, USA, October 2004
24. Schumacher H. and Johnsson C., (2004): "Communication through B2MML – is that possible?",
Presented at WBF (World Batch Forum) North American Conference, Chicago, IL, USA, May 2004.
25. Johnsson C. (2002): "Batch Management in the Supply Chain",
Presented at WBF (World Batch Forum) North American Conference, Woodcliff Lake, NJ, USA, April 2002.
26. Johnsson C. (2001): "Batch Processing in a Wider Perspective",
Presented at WBF (World Batch Forum) North American Conference, Orlando, FL, USA, April 2001.
27. Johnsson C. and Arzen K.-E. (1999): "Grafchart and Batch-Recipe Structures",
Presented at Interphex'99, New York, USA.

28. Johnsson C. and Arzen K.-E. (1999): "Grafchart and Grafcet: A Comparison Between two Graphical Languages Aimed for Sequential Control Applications",
Presented at IFAC'99, Beijing, China.
29. Johnsson C. and Arzen K.-E. (1998): "On Batch Recipe Structures Using High-Level Grafchart"
Presented at ADPM'98, Reims, France.
30. Johnsson C. and Arzen K.-E. (1998): "On Batch Recipe Structures Using High-Level Grafchart"
Presented at Reglermöte'98, Lund, Sweden.
31. Johnsson C. and Arzen K.-E. (1998): "Grafchart and Batch-Recipe Structures",
Presented at WBF'98, Baltimore, USA
32. Johnsson C. and Arzen K.-E. (1998): "Grafchart Applications",
Presented at Gensym User Society Meeting 1998, Baltimore, USA
33. Johnsson C. and Arzen K.-E. (1998): "Grafchart and its Relations to Grafcet and Petri nets",
Presented at INCOM'98, Nancy, France.
34. Johnsson C. and Arzen K.-E. (1998): "Petri net Analysis of Batch Recipes Structured with Grafchart",
Presented at FOCAPO'98, Snowbird, USA.
35. Simensen J., Johnsson C. and Arzen K.-E. (1997): "A Multiple-View Batch Plant Information Model",
Presented at PSE'97/ESCAPE-7, Trondheim, Norway.
36. Simensen J., Johnsson C. and Arzen K.-E. (1997): "An integrated Batch Plant Operation System",
Accepted for the IFAC Workshop on Computer Software Structures Integrating AI/KB Systems in Process Control 1997, Budapest Hungary. (The conference was cancelled).
37. Arzen K.-E. and Johnsson C. (1997): "Grafchart: A Petri net/Grafcet based Graphical Language for Real-Time Sequential Control Application",
Presented at SNART'97, Lund, Sweden.
38. Johnsson C. and Arzen K.-E. (1996): "Object-Tokens in High-Level Grafchart",
Presented at CIMAT'96, Grenoble, France.
39. Arzen K.-E. and Johnsson C. (1996): "Object-Oriented SFC and ISA-S88.01 Recipes",
Presented at World Batch Forum, Toronto, Canada.
40. Johnsson C. and Arzen K.-E. (1996): "Batch Recipe Structuring using High-Level Grafchart",
Presented at IFAC'96, San Francisco, USA.
41. Sviswanathan S., Venkatasubramanian V., Johnsson C. and Arzen K.-E. (1996): "Knowledge Representation and Planning Strategies for Batch Plant Operating Procedure Synthesis"
Presented at AIChE annual meeting, Chicago, USA.

42. Johnsson C. and Arzen K.-E. (1994): "High-Level Grafcet and Batch Control",
Presented at ADPM,94, Brussels, Belgium.

Technical Reports:

43. Simensen J., Johnsson C., Årzén K.-E., (1996): "A Framework for Batch Plant Information Models". Technical report ISRN LUTFD2/TFRT--7553--SE, Department of Automatic Control, Lund Institute of Technology, Sweden, November 1996.

Articles in press:

44. Effektivare processindustri med MES, artikel i Automations nytt Siemens, Nr 1 2009
45. Experter samtalar om MES, Artikel i Process Nordic's magazine "Industriell IT och Automation", spring 2008.
46. S95 – superstandardisering, artikel i Tecpress Norge, 2006.

Whitepapers:

47. Johnsson C., (2004): "Whitepaper: S88 for Beginners", World Batch Forum, June 2004
48. Johnsson C., (2004): "Whitepapers: S88 for Universities", World Batch Forum, June 2004
49. Johnsson C., (2006): "Whitepaper: ISA 95 for Beginners", published for the282group, 2006.
50. Johnsson C., (2006): "Whitepaper: ISA 95 for Academia", published for the282group, 2006.
51. Johnsson C., (2006): "Whitepaper: ISA 95 for Vendors", published for the282group, 2006.

Invited Presentations:

52. Johnsson C., (2010): "Make2Pack and ISA88-part5". Invited presentation given at Sesam's meeting, Copenhagen, September 28, 2010.
53. Johnsson C., (2009): Process Nordic 2009
54. Johnsson C., (2009): "ISA88 tutorial" Invited presentation (tutorial) given at MESA conference 2009, October 27-28, 2009, Belgium
55. Johnsson C., (2008): Process Nordic 2008
56. Johnsson C., (2008): "MES (Manufacturing Execution Systems)". Participation in a round table discussion organised by Process Nordic, Stockholm April 17 2008. The round table discussion resulted in an article in Process Nordic's Magasin.
57. Johnsson C., (2008): "ISA88 och ISA95: två standarder med stor relevans för läkemedels-, livsmedels- och bioteknikföretag (ISA88 and ISA95: two standards with high relevance for the pharmaceutical- food and beverage- and biotechnology industries)". Invited presentation (Keynoter) given at Plant Vision's user seminar day around LifeScience, Stockholm, May 7 2008.
58. Johnsson C., (2008): "Make2Pack and ISA88-part5". Invited presentation (Keynoter) given at Sesam's meeting, Copenhagen, May 8 2008.
59. Johnsson C., (2008): "MES: finns det någon standard? (MES: is there a standard?)". Invited presentation given at the conference "Industrial IT, MES and Automation" organised by Process Nordic, Stockholm, November 25, 2008
60. Johnsson C., (2005): "ANSI/ISA 88 Overview", Invited presentation (tutorial) given at WBF EU'04, Brussels, Belgium.

61. Johnsson C., (2005): "Understanding the ISA95 Enterprise/Control System Integration Standard", Invited presentation (tutorial) given at WBF'05, Atlantic City, USA.
62. Johnsson C., (2006): "Understanding the ISA95 Enterprise/Control System Integration Standard", Invited presentation (tutorial) given at WBF'06, Atlanta, USA.
63. Johnsson C., Brandl D., Unger K., (2006): "ISA 88, ISA 95, IEC/ISO JWG 15 - Up to the minute headlines". *Invited presentation at WBF'06, Atlanta, USA. March 2006*

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