

Alumni (since 2000)



Dr. Michèle Arnold

Curriculum Vitae

August 2000

Matura Typus C, Bern Kirchenfeld

Studies in Electrical Engineering at the ETH Zurich

Oct 2000 – April 2006

Internship at Levitronix, Zurich

Nov 2004 – March 2004

Master Thesis at EEH - Power Systems Laboratory of ETH Zurich

Oct 2005 – April 2006

PhD student at EEH - Power Systems Laboratory of ETH Zurich

October 2006 - July 2011

Publications

Conference Papers

- [Andreas Ulbig, Michèle Arnold, Spyros Chatzivasileiadis, Göran Andersson, Framework for Multiple Time-Scale Cascaded MPC Application in Power Systems, Presented at the 18th IFAC World Congress, August 28-September 2, 2011, Milan, Italy.](#)
- [Spyros Chatzivasileiadis, Matthias Bucher, Michèle Arnold, Thilo Krause, Göran Andersson, Incentives for Optimal Integration of Fluctuating Power Generation, Presented at the 17th Power Systems Computation Conference, Stockholm, Sweden, 2011.](#)
- [Michèle Arnold, Göran Andersson, Model Predictive Control of Energy Storage including Uncertain Forecasts, Presented at the 17th Power Systems Computation Conference, Stockholm, Sweden, 2011.](#)
- [Michèle Arnold and Göran Andersson, Investigating Renewable Infeed in Residential Areas Applying Model Predictive Control, Presented at the IEEE PES General Meeting 2010, Minneapolis, USA, 2010.](#)
- [Michèle Arnold, Rudy R. Negenborn, Göran Andersson and Bart De Schutter, Multi-Area Predictive Control for Combined Electricity and Natural Gas Systems, Presented at the European Control Conference 2009, Budapest, Hungary, 2009.](#)
- [Michèle Arnold, Rudy R. Negenborn, Göran Andersson and Bart De Schutter, Model-Based Predictive Control Applied to Multi-Carrier Energy Systems, Presented at the IEEE PES General Meeting 2009, Calgary, Canada, 2009.](#)
- [Michèle Arnold, Rudy R. Negenborn, Göran Andersson and Bart De Schutter, Distributed Control Applied to Combined Electricity and Natural Gas Infrastructures, Presented at the International Conference on Infrastructure Systems, Rotterdam, The Netherlands, 2008.](#)
- [Florian Kienzle, Patrick Favre-Perrod, Michèle Arnold and Göran Andersson, Multi-Energy Delivery Infrastructures for the Future, Presented at the International Conference on Infrastructure Systems, Rotterdam, The Netherlands, 2008.](#)
- [Michèle Arnold and Göran Andersson, Decomposed Electricity and Natural Gas Optimal Power Flow, Presented at the 16th Power Systems Computation Conference, Glasgow, Scotland, 2008.](#)
- [Michèle Arnold, Selina Knöpfli and Göran Andersson, Improvement of OPF Decomposition Methods Applied to Multi-Area Power Systems, Presented at the PowerTech Conference, Lausanne, Switzerland, 2007.](#)

PhD Thesis

- [Michèle Arnold, On Predictive Control for Coordination in Multi-Carrier Energy Systems.](#)

Master Thesis

- [Michèle Arnold, Selina Knöpfli, Multi-Area Control in Electric Power Systems, DA, WS 2005.](#)
- [M. Arnold, L. Seemann, Viskositäts-Regelkreis und Dosiersystem, SA.](#)

Further Publications

- [M. Arnold, R.R. Negenborn, G. Andersson, and B. De Schutter, Distributed Predictive Control for Energy Hub Coordination in Coupled Electricity and Gas Networks, Chapter in the book "Intelligent Infrastructures", R.R. Negenborn, Z. Lukszo and H. Hellendoorn, Eds. Dordrecht, The Netherlands. Springer, 2010. Pp. 235-273..](#)
- [Michèle Arnold, Florian Kienzle and Göran Andersson, Distributed Control Applied to Multi-Energy Generation Portfolios, Extended abstract to poster presented at the Smart Energy Strategies conference, Zurich, Switzerland, 2008.](#)
- [Florian Kienzle, Matthias Schulze, Michèle Arnold and Patrick Favre-Perrod, Energy Hubs als Lösung für die Zukunft, Umwelt Perspektiven, Vol. 5, Oktober, 2007.](#)

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