MSCPES 2014

Workshop on Modeling and Simulation of Cyber-Physical Energy Systems 2014

14 April 2014, Berlin, Germany

Program

08:00	*Registration*
09:00 - 11:00	**First morning session – Keynotes**
09:00	Opening
09:10	Marija Ilic (Carnegie Mellon University): *Integration of Heterogeneous Small Test Beds for Emulating Large-Scale Smart Power Grids: The Emphasis on Control Architectures*
10:00	Torsten Blochwitz (ITI): *The Functional Mockup Interface - Standard based Co-Simulation with FMU*
11:00 - 11:30	**Coffee break**
11:30 - 13:00	**Second morning session – Co-Simulation of Energy Systems**
11:30	Eero Vesaoja, Chen-Wei Yang, Heikki Nikula, Paul Flikkema, Seppo Sierla, Tommi Karhela: *Hybrid Modeling and Co-Simulation of District Heating Systems with Distributed Energy Resources*
12:00	Edmund Widl, Benoit Benoit Delinchant, Svea Kübler, Wolfgang Müller, Victor Norrefeldt, Thierry Stephane Nouidui, Sebastian Stratbücker, Michael Wetter, Frederic Wurtz, Wangda Zuo: *Novel Simulation Concepts for Buildings and Community Energy Systems based on the Functional Mock-up Interface Specification*
12:30	Bernhard Heinzl, Wolfgang Kastner, Fabian Dür, Friedrich Bleicher, Ines Leobner, Iva Kovacic: *Using Coupled Simulation for Planning of Energy Efficient Production Facilities*
13:00 - 14:00	**Lunch**
14:00 - 16:00	**First afternoon/evening session – Communication and controls**
14:00	Davood Babazadeh, Lars Nordström: *Agent-based Control of VSC-HVDC Transmission Grid – A Cyber Physical System Perspective*
14:35	Kaliappa Ravindran, Mohammad Rabby and Arun Adiththan: *Model-based Control of Device Replication for Voting-based High Assurance Data Collection*
15:00	Matthias Stifter, Jawad Kazmi, Filip Andrén, Thomas Strasser: *Co-Simulation of Power Systems, Communication and Controls*
15:30	Antoine Lemay, José M. Fernandez, Scott Knight: *Modelling Physical Impact of Cyber Attacks*
16:00 - 16:30	**Coffee break**
16:30 - 18:00	**Second afternoon/evening session - Modelling and Simulation**
16:30	Sohail Khan, Hadrien Bosetti, Peter Palensky, Wolfgang Gawlik: *A Replicator Dynamics Method for the Unit Commitment Problem*
17:00	Boguslaw Jablkowski, Markus Kuech, Olaf Spinczyk, Christian Rehtanz: *A Hardware-in-the-Loop Co-Simulation Architecture for Power System Applications in Virtual Execution Environments*
17:30 - 18:00	**Discussion and closing of the conference**
18:00	**End of conference**

2nd April, 2014 - MSCPES program chairs (mscpes2014@easychair.org)