

IWIES 2014 program

Schedule

Rm14, Wednesday 8th of October, 2014, 08:00am-05:15pm

08:00am-08:10am	08:10am-09:00am	09:00am-09:40am		09:45am-10:45am		11:00am-12:40pm	12:40pm-01:50pm	01:50pm-03:30pm		03:45pm-05:05pm	05:05pm-05:15pm
Opening Session (Rm14)	Panel (Rm14)	Session 1 (Rm14)		SMC2014 Keynote 3	Break	Session 2 (Rm14)	Lunch	Session 3 (Rm14)	Break	Session 4 (Rm14)	Closing Session (Rm14)
Chairs	Panel Members	#23, #02				#15, #27, #08, #22, #10		#17, #16, #12, #07, #13		#28, #19, #11, #09	Chairs

Sessions

Opening Session

Rm14, Wednesday 8th of October, 2014, 08:00am-08:10am

Chairs: Loi Lei Lai, State Grid Energy Research Institute, China

Thomas Strasser, AIT Austrian Institute of Technology, Austria

Panel Session: "Challenges and Opportunities for Intelligent Power and Energy Systems"

Rm14, Wednesday 8th of October, 2014, 08:10am-09:00am

Chair: Lance Fung, Murdoch University, Australia

1. Chun Sing Lai, University of Oxford, UK
Smart Meter Design for Micro Grid Applications
2. Pavel Vrba, Czech Technical University in Prague, Czech Republic
Challenges and Opportunities of Service-Oriented and Agent Concepts Applied in Intelligent Energy Systems
3. Anna Magdalena Kosek, Technical University of Denmark, Denmark
ICT Infrastructures for Intelligent Grids: Testing and Deployment of Control Algorithms
4. Amro M. Farid, Masdar Institute of Science & Technology, UAE
Real-Time Control Challenges in Intelligent Power Systems

Session 1: "ICT in Smart Grids"

Rm14, Wednesday 8th of October, 2014, 09:00am-09:40am

Chair: Thomas Strasser

Challenges of ICT and Artificial Intelligence in Smart Grids (IWIES#23)

Adriano Ferreira, Paulo Leitão and Pavel Vrba

Design a Co-simulation Platform for Power System and Communication Network

(invited presentation of SMC2014 paper #2045)

Loi Lei Lai, Chong Shum, Linyu Wang, Wing-Hong Lau, Norman Tse, Henry Chung, Kim-Fung Tsang and Fangyuan Xu

Session 2: "Advanced Control Solutions in Intelligent Energy Systems"

Rm14, Wednesday 8th of October, 2014, 11:00am-12:40pm

Chairs: Loi Lei Lai, Thomas Strasser

An Embedded Solution for Multi-Agent Control of PEBB Based Power Electronic Systems (IWIES#15)

Andrea Benigni, Herbert Ginn, Artur Löwen, Ferdinanda Ponci and Antonello Monti

Multi-Agent System Design Principles for Resilient Operation of Future Power Systems (IWIES#27)

Amro M. Farid

Smart Charging Cell for Smart Cities (IWIES#08)

Slobodan Lukovic and Igor Kaitovic

An Adaptive Distributed Predictive Control Strategy for Temperature Regulation in a Multizone Office Building (IWIES#22)

Fiorella Lauro, Luca Longobardi and Stefano Panzieri

Advanced Demand Response Solutions based on Fine-grained Load Control (IWIES#10)

Rim Kaddah, Daniel Kofman and Michal Pioro

Session 3: "Optimization and Control Methods for Intelligent Energy Systems"

Rm14, Wednesday 8th of October, 2014, 01:50pm-03:30pm

Chairs: Loi Lei Lai, Thomas Strasser

Assessment of Distribution Grid Voltage Control Strategies in view of Deployment (IWIES#17)

Xue Han, Anna Kosek, Daniel Esteban Bondy, Henrik Bindner, Shi You, David Tackie, Jasmin Mehmedalic and Fannar Thordarson

BALANCE: Budget-Driven Smart Thermostat Control (IWIES#16)

Kathryn McArdle and Christine Julien

Analytics-Based Optimization for Smart Grid Operations (IWIES#12)

Hamed Valizadeh Haghi, Zhihua Qu and Saeed Lotfifard

Integrated Platform for Automated Sustainable Demand Response in Smart Grids

(IWIES#07)

Vasileios Zois, Marc Frincu and Viktor Prasanna

Power System Optimal Dispatch under Low-carbon Economy with Significant Photovoltaic Generation (IWIES#13)

Bin Hu, Suhua Lou, Yaowu Wu and Siyu Lu

Session 4: "Renewable Generation and Storage Systems"

Rm14, Wednesday 8th of October, 2014, 03:45pm-05:05pm

Chairs: Loi Lei Lai, Thomas Strasser

Fair Division of Generation Profile and Fuel Consumption in Isolated Micro-grids

(IWIES#28)

Anna Magdalena Kosek and Kai Heussen

Dynamic Power Demand Prediction for Battery-Supercapacitor Hybrid Energy Storage System of Electric Vehicle with Terrain Information (IWIES#19)

Qiao Zhang, Weiwen Deng and Jian Wu

Research on the Evaluation Method of Capacity on Electric-Vehicle Energy Storage System (IWIES#11)

Yujun Liu, Qingshan Xu, Haixiang Zang, Pingliang Zeng, Xiaohui Xu and Maosheng Ding

Analysis and Validation of a Biogas Hybrid SOFC/GM Emulator (IWIES#09)

Ionel Vechiu, Sylvain Baudoin, Haritza Camblong, Jean-Michel Vinassa, Linda Barelli and Stephane Kreckerbergh

Closing Session

Rm14, Wednesday 8th of October, 05:05pm-05:15pm

Chairs: Loi Lei Lai, Thomas Strasser