

# **2011 IEEE Online Conference on Green Communications**

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# Program

Tuesday, September 27

## S1: Select Topics

### ***Home energy management system for the residential load control based on the price prediction***

Danping Ren (Beijing University of Posts and Telecommunications, P.R. China); Hui Li (Beijing University of Posts and Telecommunications, P.R. China); Ji Yuefeng (Beijing University of Posts and Telecommunications, P.R. China)  
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### ***Stochastic Charging Management for Plug-in Electric Vehicles in Smart Microgrids Fueled by Renewable Energy Sources***

Li Zhu (Carleton University, Canada); F. Richard Yu (Carleton University, Canada); Bing Ning (State Key Laboratory of Rail Traffic Control and Safety, P.R. China); Tao Tang (Beijing Jiaotong University, P.R. China)  
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### ***Energy Efficient Wavelet based OFDM for V-BLAST MIMO Wireless Sensor Networks***

Zimran Rafique (Auckland University of Technology, Auckland Central, New Zealand, New Zealand); Boon-Chong Seet (Auckland University of Technology, New Zealand)  
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## S2: Green Wireless Communications I

### ***On the Minimization of Power Consumption in Base Stations using on/off Power Amplifiers***

Angelos Chatzipapas (IMDEA Networks, Spain); Sara Alouf (INRIA, France); Vincenzo Mancuso (Institute IMDEA Networks, Spain)  
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### ***Joint MMSE Transmit Diversity Optimization and Relay Selection for Cooperative MIMO Systems Using Discrete Stochastic Algorithms***

Patrick Clarke (The University of York, United Kingdom); Rodrigo C. de Lamare (University of York, United Kingdom)  
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### ***Minimum Energy and Maximum Capacity Paths in Multi Hop Wireless Networks***

Diogo Quintas (King's College London, United Kingdom); Vasilis Friderikos (King's College London, United Kingdom)  
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***Impact of Efficient Power Amplifiers in Wireless Access***

M. M. Aftab Hossain (Helsinki University of Technology, Finland); Riku Jäntti (Aalto University School of Electrical Engineering, Finland)  
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**S3: Smart Grid Communications**

***A Green Router with Built-in Renewable Energy Module: Design, Implementation and Evaluation***

Ali Sarrafi (Royal Institute of Technology, Sweden); Konstantinos Georgantas (Helsinki Institute for Information Technology, Finland); Muhammad Usman (Royal Institute of Technology, Sweden)  
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***Dynamic Pricing for Demand-side Management in the Smart Grid***

Shengrong Bu (Carleton University, Canada); F. Richard Yu (Carleton University, Canada); Peter Liu (Carleton University, Canada)  
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***Architecture model choices for a Smart Grid home network***

Sridhar Rajagopal (Samsung Telecommunications America, USA); Mark Trayer (Samsung Telecommunications America, USA); Nhut Nguyen (Samsung Telecommunications America, USA); Kong Posh Bhat (Samsung Telecommunications America, USA)  
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***Auctioning Game based Demand Response Scheduling in Smart Grid***

Ding Li (University of New Mexico, USA); Sudharman K Jayaweera (University of New Mexico, USA); Asal Naseri (University of New Mexico, USA)  
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**Wednesday, September 28**

**S4: S4: Selected Topics II**

***Green Communications by Demand Shaping and User-in-the-Loop Tariff-based Control***

Rainer Schoenen (RWTH Aachen University, Faculty 6, Germany); Gurhan Bulu (Carleton University, Canada); Amir Mirtaheri (Carleton University, Canada); Halim Yanikomeroglu (Carleton University, Canada)  
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***Performance Modeling for Two-hop Relay with Node Selfishness in Delay Tolerant Networks***

Jiajia Liu (Tohoku University, Japan); Xiaohong Jiang (Future University-Hakodate, Japan); Hiroki Nishiyama (Tohoku University, Japan); Nei Kato (Tohoku University, Japan)

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***Balancing Peer and Server Energy Consumption in Large Peer-to-Peer File Distribution Systems***

Lachlan L. H. Andrew (Swinburne University of Technology, Australia); Andrew Sucevic (Swinburne University of Technology, Australia); Thuy Thi Thu Nguyen (Swinburne University of Technology, Australia)

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## **S5: Green Wireless Communications II**

***Energy-Efficient Non-cooperative Resource Allocation in Multi-Cell OFDMA Systems with Multiple Base Station Antennas***

Alessio Zappone (University of Cassino, Italy); Giuseppa Alfano (Politecnico di Torino, Italy); Stefano Buzzi (University of Cassino, Italy); Michela Meo (Politecnico di Torino, Italy)

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***Maximizing Bits-per-Joule Capacity over Parallel Channels***

Stefano Buzzi (University of Cassino, Italy); Giulio Colavolpe (University of Parma, Italy)

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***Energy-efficient Power Control for MIMO Time-varying Channels***

Zhijiat Chong (Dresden University of Technology, Germany); Eduard Jorswieck (Dresden University of Technology, Germany)

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***Analysing the Energy Consumption Behaviour of WiFi Networks***

Karina Mabell Gomez (Create-Net & The University of Trento, Italy); Roberto Riggio (Create-Net, Italy); Tinku Rasheed (Create-Net Research, Italy); Daniele Miorandi (Create-Net, Italy); Imrich Chlamtac (CREATE-NET, Italy); Fabrizio Granelli (University of Trento, Italy)

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## **S6: Green Fixed Line Communications**

***Energy-Aware Load Balancing for Parallel Packet Processing Engines***

Raffaele Bolla (University of Genoa, Italy); Roberto Bruschi (CNIT, Italy)

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***GRiDA: a Green Distributed Algorithm for Backbone Networks***

Aruna Prem Bianzino (Telecom ParisTech, France); Luca Chiaraviglio (Politecnico di Torino, Italy); Marco Mellia (Politecnico di Torino, Italy)

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***Mode Division Multiplexing for Limiting the Power Dissipation in High Spectral Efficiency Systems***

Mario Martinelli (Politecnico di Milano, Italy); Pierpaolo Boffi (POLITECNICO di MILANO, Italy); Alberto Gatto (Politecnico di Milano, Italy); Paolo Martelli (Policom - DEI Politecnico di Milano, Italy)

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***Energy saving potential of cyclic sleep in optical access systems***

Björn Skubic (Ericsson AB, Sweden); Alexander Lindström (Ericsson AB, Sweden); Einar In de Betou (Ericsson, Sweden); Ioanna Pappa (Ericsson AB, Sweden)

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