2012 IEEE Online Conference on Green Communications

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Program

Wednesday, September 26

**S1: Network Design**

*Energy-efficient Design and Equipment Placement for Wireless-Optical Broadband Access Networks*
Raavi Shalini (Politecnico di Milano, Italy); Marilet De Andrade (Politecnico di Milano, Italy); Riccardo Fienda (Fastweb S. p. A, Italy); Massimo Tornatore (Politecnico di Milano & University of California, Davis, Italy)
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*Energy-efficient deployment of Distributed Antenna Systems with Radio-over-Fiber links*
Yves Josse (TELECOM Bretagne, France); Bruno Fracasso (Télécom Bretagne, France); German Castignani (University of Luxembourg / SnT, Luxemburg); Nicolas Montavont (Institut Telecom / Telecom Bretagne, France)
pp. 7-13

*Multi-period traffic engineering of resilient networks for energy efficiency*
Bernardetta Addis (Università degli Studi di Torino, Italy); Antonio Capone (Politecnico di Milano, Italy); Giuliana Carello (Politecnico di Milano, Italy); Luca Gianoli (Politecnico di Milano & École Polytechnique de Montréal, Italy); Brunilde Sansò (École Polytechnique de Montréal, Canada)
pp. 14-19

*Power-Aware Design of Protected IP-over-WDM Networks with Sleep-mode Devices*
Francesco Musumeci (Politecnico di Milano, Italy); Massimo Tornatore (Politecnico di Milano & University of California, Davis, Italy); Jorge López Vizcaíno (Huawei Technologies Duesseldorf GmbH & Technische Universität Dortmund, Germany); Yabin Ye (Huawei Technologies Duesseldorf GmbH, Germany); Achille Pattavina (Politecnico di Milano, Italy)
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**S2: Optical Networks**

*Low Energy Bit-Interleaving Downstream Protocol for Passive Optical Networks*
Dusan Suvakov (Alcatel-Lucent, USA); Keith Chow (Bell Labs, Lucent Technologies, USA); Dora van Veen (Alcatel-Lucent, USA); Joe Galaro (Alcatel-Lucent, USA); Bob Farah (Alcatel-Lucent, USA); N. Prasanth Anthapadmanabhan (Bell Labs, Alcatel-Lucent, USA); Peter Vetter (Alcatel-Lucent, USA); Arnaud Dupas (Alcatel-Lucent France, France); Roger Boislaigue (Alcatel-Lucent, France)
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*Dual Power Source Aware Algorithms for Green Optical Network Survivability*
Mark P Boddie (University of Massachusetts Dartmouth, USA); Thilo Schöndienst (University of Massachusetts Dartmouth, USA); Vinod M. Vokkarane (University of Massachusetts Dartmouth / Massachusetts Institute of Technology (MIT), USA)
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*Energy Efficient File Transfer over Rate Adaptive Optical Network*
Kyle C Guan (Bell Labs, Alcatel-Lucent, USA); Daniel Kilper (Columbia University, USA); Yan Pan (Bell Labs, Alcatel-Lucent, USA); Olivier Rival (Alcatel Lucent Bell Labs France, France); Annalisa Morea (Alcatel-Lucent, France)
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*Multipath Routing for Reducing Network Energy*
Yong Oh Lee (Texas A&M University, USA); Narasimha Reddy (Texas A & M University, USA)
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S3: Sustainability

Complete life-cycle assessment of the energy/CO2 costs of videoconferencing vs face-to-face meetings
Dennis Ong (University of New South Wales, Australia); Tim Moors (University of New South Wales, Australia); Vijay Sivaraman (University of New South Wales, Australia)
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An agent-based fuzzy-neural approach for precise energy consumption forecasting
Toly Chen (Feng Chia University, Taiwan); Yu - Cheng Wang (Feng Chia University, Taiwan)
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Energy Efficiency in Reliable Cooperative Communications with Retransmissions
Quansheng Guan (South China University of Technology & Chinese University of Hong Kong, P.R. China); Shengming Jiang (Shanghai Maritime University, P.R. China); Wanjuan Xie (South China University of Technology, P.R. China); F. Richard Yu (Carleton University, Canada)
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A Data Pseudonymization Protocol for Smart Grids
Cristina E.M. Rottondi (Politecnico di Milano, Italy); Giulia Mauri (Politecnico di Milano, Italy); Giacomo Verticale (Politecnico di Milano, Italy)
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Forecasting Driving Behavior to Enable Efficient Grid Integration of Plug-in Electric Vehicles
Christoph Goebel (Technical University Munich, Germany); Marcus Voß (Humboldt-Universität zu Berlin, Germany)
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Communication Services and Data Model for Demand Response
Salman Mohagheghi (Colorado School of Mines, USA)
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Profit Maximization for Utility Companies in an Oligopolistic Energy Market with Dynamic Prices
Tiansong Cui (University of Southern California, USA); Yanzhi Wang (University of Southern California, USA); Hadi Goudarzi (University of Southern California, USA); Shahin Nazarian (University of Southern California, USA); Massoud Pedram (University of Southern California, USA)
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S5: Cellular and Heterogeneous Networks

Green Antenna Switching to improve energy saving in LTE networks
Pasquale Pace (University of Calabria, Italy)
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Energy Efficiency in Heterogeneous Networks
Laetitia Falconetti (Ericsson Research, Germany); Pål Frenger (Ericsson Research, Ericsson AB, Sweden); Harald Kallin (Ericsson, Sweden); Thomas Rimhagen (Ericsson Research, Sweden)
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Green Communications in LTE Networks with Environmentally Friendly Small Cell Base Stations
Elias Yaacoub (Qatar Mobility Innovations Center (QMIC), Qatar)
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S6: Devices

Power Measurement of NetFPGA Based Router
Feng Guo (Dublin City University, Ireland); Olga B. Ormond (Dublin City University, Ireland); Martin Collier (Dublin City University, Ireland); Xiaojun Wang (Dublin City University, Ireland)
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Modeling Temperature and Dissipation Behavior of an Open Multi-Frequency Green Router
Alfio Lombardo (University of Catania, Italy); Diego Reforgiato (University of Catania, Italy); Vincenzo Riccobene (University of Catania, Italy); Giovanni Schembra (University of Catania, Italy)
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Evaluation of Power Rating of Core Network Equipment in Practical Deployments
Ward Van Heddeghem (Ghent University - iMinds, Belgium); Filip Idzikowski (Technical University of Berlin, Germany); Esther Le Rouzic (Orange Labs, France); Jean Yves Mazeas (Orange Labs, France); Hubert Poignant (France Telecom, Orange Labs, France); Suzanne Salaun (Orange Labs, France); Bart Lannoo (Ghent University - iMinds, Belgium); Didier Colle (iMinds - Ghent University, Belgium)
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S7: Wireless Networks and Devices

An Energy Efficient Mobile Device for Assisted Living Applications
Sebastian Fudickar (University of Potsdam, Germany); Max Frohberg (University Potsdam, Germany); Sebastian Taube (University of Potsdam, Germany); Philipp Mahr (University of Potsdam & Department of Computer Science, Germany); Bettina Schnor (University of Potsdam, Germany)
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Distributed Beamforming with Close to Optimal Number of Nodes for Green Wireless Sensor Networks
Netsanet Tessema (Delft University of Technology, The Netherlands); Xiaohua Lian (TUDelft, The Netherlands); Homayoun Nikookar (Delft University of Technology, The Netherlands)
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FlexibleIP (FIP): IPv6 Stack for Experimental Work on Low-Power Wireless Networks
Colin O’Flynn (Dalhousie University, Canada)
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Energy efficient spatiotemporal threshold level detection in large scale wireless sensor fields
Hadi Alasti (ECPI University, USA)
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