

Table of Contents

| | |
|---|----|
| Demand Response for Increasing Renewable Energy Penetration in Isolated Power Systems <i>Michael Negnevitsky, Dusan Nikolic, and Martin de Groot</i> | 1 |
| Towards a Quality of Service Based Complex Event Processing in Smart Grids <i>Orleant Epal Njamen, Christine Collet, and Genoveva Vargas Solar</i> | 7 |
| Sensor Placement for Real-Time Power Flow Calculations in Transmission Networks <i>Eugene Feinberg, Muqi Li, Roman Samulyak, Bruce Fardanesh, and George Stefopoulos</i> | 12 |
| A Matrix Model For An Energy Management System Based On Multi-Carrier Energy Hub Approach <i>Diego Arnone, Massimo Bertoncini, Giuseppe Paterno, Alessandro Rossi, Mariano Giuseppe Ippolito, Eleonora Riva Sanseverino, Gaetano Zizzo, and Sandra Elizabeth Jenkins</i> | 18 |
| Ener-SCAPE: A Novel Persuasive Game to Improve the Energy Consumption Awareness <i>Diego Arnone, Alessandro Rossi, Enrico Melodia, Marzia Mammina, and Sandra Elizabeth Jenkins</i> | 24 |
| Cloud Based Optimal Routing and Powertrain Management for Hybrid and Electric Vehicles <i>Can Kurtulus and Gokhan Inalhan</i> | 29 |
| A Framework for Power Consumption Analysis of Green Cellular Networks with Separated Control and Data Base Stations <i>Yun Won Chung</i> | 34 |
| Power-Aware Cooling Control Architecture for Container Data Center <i>Hiroyoshi Kodama, Masatoshi Ogawa, Hiroshi Endo, Toshio Sugimoto, Hiroyuki Fukuda, Masao Kondo, and Jun Tanaka</i> | 37 |
| QoS-aware Interference Control in OFDMA Femtocell Networks <i>Chiapin Wang, Te-Sheng Tsai, and Hsing-Jung Li</i> | 42 |
| Constrained Application Protocol Profile for Robust Header Compression Framework <i>Mikko Majanen, Pekka Koskela, and Mikko Valta</i> | 47 |
| On Investigating the Benefits of TTCN-3-Based Testing in the Context of IEC 61850 <i>Georg Panholzer, Christof Brandauer, Stephan Pietsch, and Jurgen Resch</i> | 54 |
| Potential Impacts of 9-150 kHz Harmonic Emissions on Smart Grid Communications in the United States <i>Maria Arechavaleta, Mark Halpin, Adam Birchfield, Wendy Pittman, Eric Griffin, and Michael Mitchell</i> | 59 |