Table of Contents

The Future Development of Smart Grid - The Case of Morocco Nada Belkebir, Ahmed Khallaayoun, Rachid Lghoul, and Mohammed Maaroufi	1
Energy Management Policy with Demand Response Method for a Smart Home Win Thandar Soe and Cecile Belleudy	10
Energy Planning Support with Geomapping Tool and Energy Demand Estimation: The Energis Platform Gema Hernandez, Victor Serna, Giulia Massa, and Cesar Valmaseda	16
Situation Analysis of Electric Vehicles, Renewable Energy and Smart Grids for Sustainable Urban Mobility in Five European Regions Kamile Petrauskiene, Jolanta Dvarioniene, Daina Kliaugaite, Giedrius Kaveckis, Julie Chenadec, and Leonie Hehn	23
PLECO: New Energy-Aware Programming Languages and Eco-Systems for the Internet of Things Jon Robinson, Kevin Lee, and Kofi Appiah	26
A Software-based Approach for Source-line Level Energy Estimates and Hardware Usage Accounting on Android Alexandre Cornet and Anandha Gopalan	32
An Inclusion of Electric Grid Reliability Research Through the Enhanced Energy Informatics Research Framework Vivian Sultan, Au Vo, and Brian Hilton	38
Electric Substation Emergency Disaster Response Planning Through the Use of Geographic Information Systems Vivian Sultan, Au Vo, and Brian Hilton	43
Battery Storage Integration Into the Electric Grid Vivian Sultan, Ahmed Alzahrani, Hind Bitar, and Brian Hilton	47
A Qualitative Risk Analysis of Smart Grid Security Protocols Mustafa Saed, Kevin Daimi, and Nizar Al Holou	57
Investigation of Technical Potentials for Load Shifting and Their Suitability to Compensate Forecast Errors of Wind Parks Liana Maria Jacob, Sebastian Reinohl, and Wolfgang Schufft	67
QoS-compliant Data Aggregation for Smart Grids Jad Nassar, Nicolas Gouvy, and Nathalie Mitton	73
Parformance Pradiction of Geophysics Numerical Kernels on Accelerator Architectures	76

Vi?ctor Marti?nez, Matheus da Silva Serpa, Philippe Olivier Alexandre Navaux, Edson Luiz Padoin, and Jairo Panetta

Energy Determination of Superconducting Vortex Lattices With Stochastic Methods Calculated on GPUs Manuel Rodriguez-Pascual, Jose A Morinigo, and Rafael Mayo-Garcia

82