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Collana	Lecture Notes of the Institute for Computer Sciences, Social Informatics and Telecommunications Engineering, , 1867-822X ; ; 175
Disciplina	610
Soggetti	Computer networks Computers, Special purpose Application software Data protection Electric power production Computer Communication Networks Special Purpose and Application-Based Systems Computer and Information Systems Applications Data and Information Security Electrical Power Engineering Mechanical Power Engineering
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di contenuto	Mobility Incorporated Vehicle-to-Grid (V2G) Optimization for Uniform Utilization in Smart Grid based Power Distribution Network -- A Cost Function based Prioritization Method for Smart Grid Communication Network -- Clustering Power Consumption Data in Smart Grid -- Using a Cost Function to Choose the Best Communication Technology for fulfilling the Smart Meters Communication Requirements -- Assessing Loss Event Frequencies of Smart Grid Cyber Threats: Encoding Flexibility into FAIR Using Bayesian Network Approach -- Replay attack impact on Advanced Metering Infrastructure (AMI) -- D2Sketch:

Supporting Efficient Identification of Heavy Hitters over Sliding Windows -- Short Term Load Forecasting for Residential Buildings -- Short-Term Electrical Load Forecasting based on Fuzzy Logic Control and Improved Back Propagation Algorithm -- On the Study of Secrecy Capacity with Outdated CSI -- The Role of Analog Beamwidth in Spectral Efficiency of Millimeter Wave Ad Hoc Networks -- An ANN-based Energy Forecasting Framework for the District Level Smart Grids -- Future demand response services for blocks of buildings -- Use Cases and Business Models of Multi-Agent System (MAS) ICT Solutions for LV Flexibility Management -- Combination of Standards to Support Flexibility Management in the Smart Grid, Challenges and Opportunities -- A Load Balanced Charging Strategy for Electric Vehicle in Smart Grid -- Optimized Energy-aware Window Control -- Smart Home System Network Architecture -- Threat navigator: grouping and ranking malicious external threats to current and future urban smart grids. .

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## Sommario/riassunto

This book constitutes the post-conference proceedings of the First International Conference on Smart Grid Inspired Future Technologies, SmartGIFT 2016, held in May 2016 in Liverpool, UK. Smart grid is the next generation electric grid that enables efficient, intelligent, and economical power generation, transmission, and distribution. The 25 revised full papers presented were reviewed and selected from 36 submissions. The papers cover technical topics such as high-level ideology and methodology, concrete smart grid inspired data sensing, processing, and networking technologies, smart grid system architecture, Quality of Service (QoS), energy efficiency, security in smart grid systems, management of smart grid systems, service engineering and algorithm design, and real-world deployment experiences.

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