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Nota di contenuto	Electric Mobility; Power Electronics; Intelligent Transportation Systems -- The Electric Vehicle in Smart Homes: A Review and Future Perspectives -- STATCOM Evaluation in Electrified Railway Using V/V and Scott Power Transformers -- Towards Smart Railways: A Charging Strategy for On-board Energy Storage Systems -- A Three-Phase Bidirectional Variable Speed Drive: An Experimental Validation for a Three-Phase Induction Motor -- Unified Traction and Battery Charging Systems for Electric Vehicles: A Sustainability Perspective -- Smart Auditorium: Development and Analysis of a Power and Environment

Monitoring Platform -- Modeling and Thermal Energy Management in Smart Homes -- Reverse Power Flow Detection Using Optimally Placed PMUs in a Distribution System -- Comparison of thermal load models for MILP-based demand response planning -- Renewable Energy; Smart Grids; Energy and Environment -- Development of a Compact and Low-Cost Weather Station for Renewable Energy Applications -- Modelling interconnected renewable electricity systems -- Integrating PV+Battery residential microgrids in distribution networks: how is the point of common coupling agreed upon? -- Economic Evaluation of PV Generation Curtailment and Voltage Regulation Investment in Distribution Networks with Increasing photovoltaic self-consumption: an approach with game theory and blockchain -- Internet of Things; Monitoring; Network Communications -- Development of an Internet of Things System for Smart Home HVAC Monitoring and Control -- WaterAMI - Water Automated Metering Infraestructure based on a energy aware wireless mesh network communication protocol -- A Versatile High Frequency Electricity Monitoring -- Framework for our Future Connected Home -- Construction and Validation of a Low Cost System for Indoor Air Quality Measurements in Livestock Facilities -- Acoustic Simultaneous Localization and Mapping Using a Sensor-Rich Smartphone -- Advanced Load-Shift System: An Experimental Validation of the ac-dc Converter as Shunt Active Power Filter -- A Novel Single-Phase Shunt Active Power Filter Based on a Current-Source Converter with Reduced Dc-link -- Three-Phase Smart Energy Meter for Grid-Connected PV Installations -- Towards Green data centers.

Sommario/riassunto

This book constitutes the refereed post-conference proceedings of the First EAI International Conference on Sustainable Energy for Smart Cities, SESC 2029, held as part of the Smart City 360° Summit event in Braga, Portugal, in December 2019. The 23 revised full papers were carefully reviewed and selected from 38 submissions. They contribute to answer complex societal, technological, and economic problems of emergent smart cities. The papers are organized thematically in tracks, starting with mobile systems, cloud resource management and scheduling, machine learning, telecommunication systems, and network management. The papers are grouped in topical sections on electric mobility; power electronics; intelligent, transportation systems; demand response; energy; smart homes; Internet of Things; monitoring; network communications; power quality; power electronics.