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Nota di contenuto	Design of Current Controllers for Three Phase Voltage -- PWM Converters for different Modulation Methods -- Limits of harmonic power recovery by power quality conditioners in three-phase three-wire systems under non-sinusoidal conditions -- Comparative Analysis and Validation of Different Modulation Strategies for an Isolated dc-dc Dual Active Bridge Converter Demand Response; Energy; Smart Homes -- Smart Greenhouse Project: A Sustainability-focused Learning Experience for Undergraduates -- Assessment of renewable energy

technologies based on Multicriteria Decision Making Methods (MCDM): Ocean energy case -- A regression model to assess the social acceptance of demand response programs -- Power Electronics; Power Quality -- Efficiency Comparison of Different DC-DC Converter Architectures for a Power Supply of a LiDAR System -- Submodule Topologies and PWM Techniques Applied in Modular Multilevel Converters: Review and Analysis -- Mitigation of Low-Frequency Oscillations by Tuning Single-PhasePhase-Locked Loop Circuits -- Optimized Power System Voltage Measurements Considering Power System Harmonic Effects -- Electric Mobility; Renewable Energy -- A Single-Phase Current-Source Converter Combined with a Hybrid Converter for Interfacing an Electric Vehicle and a Renewable Energy Source -- Battery Charging Station for Electric Vehicles based on Bipolar dc Power Grid with Grid-to-Vehicle, Vehicle-to-Grid and Vehicle-to-Vehicle Operation Modes -- Smart Charging and Renewable Grid Integration - a Case Study based on Real-Data of the Island of Porto Santo.

Sommario/riassunto

This book constitutes the refereed post-conference proceedings of the Second EAI International Conference on Sustainable Energy for Smart Cities, SESC 2020, held in Portugal in December 2020. The conference was framed within the 6th Annual Smart City 360° Summit. Due to COVID-19 pandemic the conferences were held virtually.The 13 revised full papers were carefully reviewed and selected from 27 submissions. They present multidisciplinary scientific results toward answering the complex technological problems of emergent Smart Cities. The subjects related to sustainable energy, framed with the scope of smart cities and addressed along with the SESC 2020 conference, are crucial to guarantee an equilibrium among economic growth and environmental sustainability, as well as to contribute to reducing the impact of climate change.