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| 1. | Record Nr. | UNISALENTO991001887749707536 |
| | Autore | Baretti, Giuseppe |
| | Titolo | Epistolario / Giuseppe Baretti ; a cura di Luigi Piccioni |
| | Pubbl/distr/stampa | Bari : Laterza, 1936 |
| | Descrizione fisica | 2 v. ; 22 cm |
| | Altri autori (Persone) | Piccioni, Luigi |
| | Disciplina | 854.6 |
| | Lingua di pubblicazione | Italiano |
| | Formato | Materiale a stampa |
| | Livello bibliografico | Monografia |
| 2. | Record Nr. | UNINA9910830064603321 |
| | Autore | Hussain Chaudhery Mustansar |
| | Titolo | Detection and analysis of SARS coronavirus : advanced biosensors for pandemic viruses and related pathogens / / Chaudhery Mustansar Hussain and Sudheesh K. Shukla |
| | Pubbl/distr/stampa | New York, NY : , : John Wiley & Sons, Inc., , [2021] ©2021 |
| | ISBN | 3-527-83251-3 3-527-83252-1 3-527-83250-5 |
| | Descrizione fisica | 1 online resource (301 pages) |
| | Disciplina | 610.28 |
| | Soggetti | Biosensors - Design and construction COVID-19 (Disease) |
| | Lingua di pubblicazione | Inglese |
| | Formato | Materiale a stampa |
| | Livello bibliografico | Monografia |

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| 3. Record Nr. | UNINA9910847580103321 |
| Titolo | Advances in Electrical Systems and Innovative Renewable Energy Techniques : The Proceedings of the International Conference on Electrical Systems and Automation (Volume 1) // edited by Mohamed Bendaoud, Amine El Fathi, Farhad Ilahi Bakhsh, Siano Pierluigi |
| Pubbl/distr/stampa | Cham : , : Springer Nature Switzerland : , : Imprint : Springer, , 2024 |
| ISBN | 3-031-49772-4 |
| Edizione | [1st ed. 2024.] |
| Descrizione fisica | 1 online resource (227 pages) |
| Collana | Advances in Science, Technology & Innovation, IEREK Interdisciplinary Series for Sustainable Development, , 2522-8722 |
| Disciplina | 621.3 |
| Soggetti | Renewable energy sources Electric power production Application software Mathematical physics Computer simulation Renewable Energy Electrical Power Engineering Computer and Information Systems Applications Computational Physics and Simulations |
| Lingua di pubblicazione | Inglese |
| Formato | Materiale a stampa |
| Livello bibliografico | Monografia |
| Nota di bibliografia | Includes bibliographical references. |
| Nota di contenuto | Part One: Advances in innovative renewable energy techniques -- 1. Production of hydrogen by photovoltaic using seawater -- 2. A numerical evaluation of the energy potential of waves along Morocco's Atlantic and Mediterranean coast -- 3. Assessment of Bifacial Modules in an AgriVoltaic System installed in Agadir, Morocco -- 4. Numerical analysis of a parabolic trough collector absorber with a Two-Straight-Tubes Exchanger -- 5. Long-Term Investigation of Hybrid System for Building Integration: PTC-Based Heating System and Power Generation (CPV/T) -- 6. Combustion characteristics of biomass pellet fuels in a fixed-bed micro-gasifier cook stove in Senegal -- 7. Deep Learning Approach for Solar Irradiance Forecasting: A Moroccan case study -- 8. PV Power Forecasting Using Deep Learning and Physical Models: Case |

Study of Morocco -- Part two: Interdisciplinary approaches in renewable energy systems -- 9. PV Modelling and Extracting the Single-Diode Model Parameters: A Review Study on Analytical and Numerical Methods -- 10. An experimental assessment of the single and double-diode models: possibility of a hybrid approach -- 11. Intelligent PV Fault Detection and Categorization Based on Metaheuristic Algorithm and Feedforward Neural Network -- 12. Detection and Classification of Faults in PV Systems Based on Thermal Imaging and Fuzzy Logic Algorithm -- 13. Integral SMC Strategy for MPPT of the Solar PV System under Varying Climatic Conditions -- 14. Assessing MPPT Techniques for Nanosatellite EPS in Sun-Pointing Orientation: A comparative Study -- 15. A Comparative Study of Various SuDoKu Algorithms for Improvement of Generated Power under Partial Shading Conditions -- 16. Modeling and Control of a Standalone PMSG Wind Generation System to Extract the Maximum Power Based on Direct Power Control -- 17. A Comparative Study of the ADRC and PI Controller of a Wind Turbine Driven by a PMSG -- 18. The efficiency of fuzzy logic control on the power stabilization of wind turbine -- 19. Optimizing Wind Turbine Control with Sliding Mode and Time Delay Strategies -- Part three: Sizing and management of electrical grid -- 20. Sizing and Simulation of an Alternative Microgrid System -- 21. Sizing Renewable Energy by Using Genetic Algorithm -- 22. Micro-grid design and optimization using COOT optimization algorithm -- 23. Feasibility study of the design of a floor heating system for the wet rooms of a Hammam using solar photovoltaic -- 24. Grid-tied Energy Management System for hybrid microgrid using advanced-PSO algorithm -- 25. A control strategy for energy cost reduction, peak shaving and power factor correction using batteries -- 26. Robust Deterministic Optimization Approach for Optimal Reactive Energy Management in Electrical Transmission Network -- 27. A comparative study of metaheuristics algorithms applied for optimal reactive power dispatch problem considering load uncertainty -- 28. Management of battery-hydrogen tank storage system of electric vehicle energy using machine learning classification methods: Comparative Study -- 29. Design and simulation of an intelligent grid-connected MPPT inverter with battery storage using ANN algorithm.

Sommario/riassunto

This edited book on “Advances in Electrical Systems and Innovative Renewable Energy Techniques” is an outcome of the selected papers presented at the International Conference on Electrical Systems & Automation, (ICESA 2023) held from 29 to 30, May 2023 at the Faculty of Sciences and technologies, Al Hoceïma, Morocco. This edited book is divided into 2 volumes. This volume will be divided into 3 parts, each devoted to distinct yet interconnected aspects of the subject matter. The first part focuses on various advancements in renewable energy techniques. It explores topics ranging from biomass combustion characteristics and hydrogen production using photovoltaics to the assessment of wave energy potential and the performance evaluation of solar collectors. These research papers not only shed light on the current state-of-the-art technologies but also offer valuable insights into their implementation, efficiency, and potential impact on the energy landscape. The second part focuses on interdisciplinary approaches between electrical and renewable energy systems and includes research chapters on photovoltaic (PV) energy, wind energy, and microgrid systems. For PV systems, several topics and issues are addressed such as modeling of PV systems using single diode model and double diode model; analytical and numerical methods for extraction of PV parameters; extraction of maximum power from PV system using integral SMC strategy, sun-pointing orientation, SuDoKu,

and ANN algorithms; and fault detection and classification based on metaheuristic technique, and feedforward neural network. For the wind system, its modeling is first discussed, and then the control of the wind system using direct power, PI, fuzzy logic, sliding mode, and time delay strategies is analyzed. In the third part, the chapters focus on efficient energy management, optimization of microgrids, and the use of advanced technologies to improve energy performance. Researchers present innovative solutions to address the challenges of energy efficiency, grid responsiveness, and the integration of new energy sources.
