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| Nota di contenuto | Mapping urban flood hazard using extreme gradient boosting and random forest -- AI's Contribution in E-Learning: A Review and Suggestion for Hybridizing Existing Classification Approaches -- Effect of new urban spaces on person behavior -- Comparative study of artificial intelligence-based approaches to measuring student attention: Towards an affordable and effective method -- Digital territorial communication: a major project for local authorities -- Financial Frauds Detection using Machine Learning : A Review of Literature -- Digital twins and energy efficiency in buildings: a literature review -- Smart tourism strategy and sustainable tourism -- Modeling Solar Wood Dryer: A Comparative Study of Pine and Beech -- Reshaping Morocco's Energetic Future: A Macroeconomic Exploration of Renewable Energy Transition and Energy Efficiency in General Equilibrium.-Projected |

changes of thermal, rainfall and drought indices in Morocco from high resolution climate models -- Energy transition: analysing the impact of renewable energies on the environment in Morocco -- Enhancing Wind Energy Systems with Sliding Mode Control for Doubly Fed Induction Generators -- Evaluating and estimating the geothermal potential in Northeastern Morocco -- Green Hydrogen, Driving Morocco's Renewable Energy Transition and Shaping Global Geopolitical Dynamics -- Control of an isolated micro-grids Using the Pontryagin’s Minimum Principle -- Machine Learning Algorithms for Electric Load Forecasting in a Moroccan Academic Campus -- Optimal Location and Size of PV units in Distribution Networks Using SPEA2 -- Optimal location and sizing of BESS for PV systems integrated into distribution network -- Effect of cracks on photovoltaic modules mechanical stress-induced aging.

Sommario/riassunto

This book presents a collection of research papers and case studies from leading experts in the field. This proceedings book explores innovative approaches to addressing environmental challenges in urban settings through the integration of technology and sustainability. From mapping urban flood hazards to leveraging artificial intelligence in e-learning and financial fraud detection, each paper offers practical insights and solutions for implementing smart and sustainable practices in cities. Case studies examine the impact of new urban spaces on human behavior, the role of digital communication in local governance, and the potential of renewable energy transition in reshaping Morocco's energetic future. Readers will gain valuable insights into topics such as smart tourism strategies, modeling solar wood drying, evaluating geothermal potential, and optimizing energy systems through machine learning algorithms and renewable energy integration. With contributions covering a wide range of topics, "Technology and The Environment" serves as a valuable resource for researchers, practitioners, policymakers, and students interested in harnessing technology to create more sustainable urban environments.