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Nota di contenuto	-- Internet of Things and Big Data. -- Low-cost IoT system to detect supbotimal conditions in PV arrays. -- Geothermal Heat Flux Mapping using Satellite Remote Sensing, Case studies in the Hot Springs of El Salvador. -- Distributed detection algorithm for photo-voltaic solar arrays based on least significant difference test. -- Optimization of Urban Mobility with IoT and Big Data: Technology for the Information and Knowledge Society in Industry 5.0. -- Big data quality processing model applied to predictive maintenance strategies for wind farms. -- The other SOTA for DOTA: assessing general object detectors for aerial surveillance. -- Intrusion detection system through mobile notifications using the Internet of Things. -- Computational

intelligence for smart cities. -- Novel Convolutional Neural Network Model for Estimating Series Resistance in PV Cells by predicting I-V Curve Slopes on Electroluminescence Images. -- A computational intelligence approach for car damage assessment. -- Leveraging AI Techniques for an Efficient Approach to Smart City Planning and Maintenance. -- Intelligent Student Counting System Tolerant to Occlusions based on Convolutional Neural Networks. -- Optimization, smart industry, and smart public services. -- Optimizing Household Appliance Usage to Minimize Energy Expenses: A Demand Management Approach. -- Multi-objective optimization for the operation of a physicochemical phosphorus removal system. -- An Evolutionary Approach for Determining Electric Vehicle Charging Infrastructure Location: A Case Study in Montevideo. -- A traceability system with Industry 4.0: continuous improvement in a manufacturing plant in Mexico. -- Innovative approaches for smart cities. -- Benchmarking Building Energy Efficiency with Bayesian Regression on Incomplete Data. -- Regression analysis for prediction of solar chimney performance. -- A Home Assistant-based Platform for Ambient Intelligence in Smart Buildings. -- Smart Urban Governance: The Baseline for Governing Future Cities. -- Design of Content Distribution Networks for smart cities. -- Control strategies for smart grid. -- Three-phase VSI operated by FCS – MPC with efficient steady-state and transient behavior. -- Non-Linear Control Strategy for a Bidirectional DC-DC Converter in an Energy Storage System Operating in Conjunction with a Grid-Forming Inverter. -- H-Bridge Cell Fault Clearing Algorithm for Cascaded Multilevel Converter Operating as Grid-Forming Inverter". -- Phase commutation strategy to mitigate overvoltage in distribution networks with high photovoltaic penetration.

Sommario/riassunto

This book constitutes the revised selected papers of the 7th Ibero-American Congress on Smart Cities, ICSC-Cities 2024, held in San Carlos, Costa Rica during November 12–14, 2024. The 24 full papers included in this book were carefully reviewed and selected from 129 submissions. They were organized in topical sections as follows: Internet of Things and Big Data; Computational intelligence for smart cities; Optimization, smart industry, and smart public services; Innovative approaches for smart cities; Control strategies for smart grid.