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Soggetti	Software engineering Computer networks Social sciences - Data processing Computer systems Software Engineering Computer Communication Networks Computer Application in Social and Behavioral Sciences Computer System Implementation
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Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	-- Optimization. -- Location-allocation of relief service facilities: a case study for Bogotá - Colombia. -- Harmony Search Based Metaheuristic for the Index Tracking Problem. -- Chaotic Binary Fox Optimizer for solving Set Covering Problem. -- Optimal Selection of Distributed Generation Projects in Power Distribution Systems: A Genetic Algorithm Approach with DIGSILENT PowerFactory Integration. -- Location Model of Rural Centers as Logistical Support of the Agri-Food Supply Chain in the Sabanas Subregion, Department of Sucre. -- Stochastic Optimization for Sustainable Development in Rural Territories. -- Index Tracking Based on Norm-Constraints and Regularization. -- Physical Benchmark for Evaluating Network Control

Systems Under Cyber Attacks. -- Exploring oncolytic measles virotherapy for cancer tumor reduction using linear MPC. -- Dynamic thermal compensation in CNC machining: modeling a linear Kalman filter for enhanced positional accuracy. -- Simulation. -- Simulation Model for the Strategic Analysis of a Cassava Starch Production Company: A Case Study. -- Experimental Results of a Cascade Control for Autonomous Attitude Tracking in a UAV with Actuator Compensation. -- Battery Life Estimation of a Solar-electric Boat Based on Hybrid Simulation of Real-life Operation Using Python-based Algorithms. -- Fuzzy PID Control Architectures for Continuous Industrial Processes: A Comparative Study. -- Applications. -- Design of a Right-Hand Rehabilitation Orthosis. -- Detection of broken bars in three-phase electric motors using current and vibration signals. -- Setting-up the Audiomoth recorder for wildlife monitoring in the rainforest. -- Requirements Engineering in Web Applications for Education. -- Factors associated with dropout in Engineering: a structural equation and logistic model approach. -- Geographic Information Management Applied to Land Administration in Colombia through the Use of Free Software Tools. -- Application of inferential statistics with Neural Networks for predicting income levels in companies based on management system maturity.

Sommario/riassunto

The two-volume set CCIS 2222 and 2223 constitutes the proceedings of the 11th Workshop on Engineering Applications, WEA 2024, which took place in Barranquilla, Colombia, during October 23–25, 2024. The 42 full papers presented here were carefully reviewed and selected from 97 submissions. The papers are organized in the following topical sections: Part I - Artificial Intelligence. Part II - Optimization; Simulation; Applications.
