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Nota di contenuto	-- HIS 2024. -- Comparative Study of Dragonfly and Firefly algorithms with Type-1 and Type-2 Fuzzy Parameter Adaptation. -- Improving a Forecast for Demand Uncertainty Decision Support System based on

Grey Systems and Markov Chain MCGM (1,1) to Industry 5.0. -- Integration of Alexa and Social IoT for Generation X: A Study on the Optimization of Smart Treadmill Use. -- Logarithmic Weighted Random Selector Algorithm: A Novel Approach for Biasing Selection Based on Positional Order Without Hyperparameters. -- Design and implementation of a machine learning model for soccer match prediction based on player statistics. -- Electric Scooters and Renewable Energy Integration associated with Tourist Parks: A Dijkstra-Based Model for Smart Mobility Optimization. -- Use of convolutional neural networks for the recognition of bird species in risk categories in the state of Chihuahua. -- Exploring Deep Learning Applications in Neurodegenerative Diseases: A State-of-the-art Review. -- Automated Insights: LLMs in Neurodegenerative Disease Research and Comparison. -- Convolutional Neural Network models for Classifying of Peach (Prunus persica L). -- Cleaning binary distortion on MNIST dataset. -- Rule-based Expert System with Bayesian Theory and Fuzzy Inference for Vocational guidance: A tool to prevent school dropouts. -- Detection of basic motorcycle faults using a fuzzy Bayesian expert system. -- Intervention Model with Data Mining Techniques to work with dating violence victims using a social support network. -- Enhanced Pest Detection Using Quaternion-Based Image Segmentation in Yellow Sticky Trap Samples for Precision Agriculture. -- Optimization of a Treatment Plant through the Incorporation of New Waste Separation Components: A TOPSIS-focused Multi-Criteria Analysis Approach. -- Multicriteria Analysis Applied to the Selection of Shopping Centers for a Family-Owned Restaurant Business in Smart Cities: A Case Study in Ciudad Ju´arez. -- Alarm Recommendation Intelligent System for Multilayer Ceramic Capacitor (MLCC) Electroplating using Case-Based Reasoning and Natural Language. -- Implementation of a Hybrid Tabu Search Algorithm for Solving the Capacitated Vehicle Routing Problem. -- Intelligent system associated with a stochastic RoRo shipping problem for a fleet of dierentiated vehicles and collection of specific problems.

Sommario/riassunto

This book constitutes the revised selected papers of several workshops which were held in conjunction with the MICAI 2024 International Workshops on Advances in Computational Intelligence, MICAI 2024, held in Tonantzintla, Mexico, during October 21–25, 2024. The 38 revised full papers presented in this book were carefully reviewed and selected from 58 submissions. The papers presented in this volume stem from the following workshops: – 17th Workshop of Hybrid Intelligent Systems (HIS 2024) – 17th Workshop on Intelligent Learning Environments (WILE 2024) – 6th Workshop on New Trends in Computational Intelligence and Applications (CIAPP 2024).