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Identification in a Robotic Welding Cell. -- An energy efficient model based on the feature pseudo-embedding. -- HAIS Energy Applications. -- Forecasting Thermal Demand in Citizen Energy Communities Using Machine Learning: Application to the Urberoa Case Study. -- A Hybrid Modelling Approach for Forecasting the Acquired Electrical Power from Photovoltaic Panels. -- KARMA: KAN meets ARIMA. -- IIoT-Driven Time Series Imputation for Sustainable Metalworking Fluid Monitoring. -- Evolutionary Computation and Optimization. -- An Adaptive Memetic Algorithm for Solving the Multiple Knapsack Assignment Problem. -- Advanced Decomposition-based Bioinspired Algorithms for Multiobjective Phylogenetics. -- An Ant Colony Optimization Approach for Safest Path Pair Computation under Correlated Failures. -- DRL-Driven Batch-Oriented SDN Migration with Weighted Traffic Matrix Clustering for Dynamic Networks. -- Reinforcement Learning and AI Planning. -- Emotional Value-aware Agents: a Viewpoint paper. -- Neuro-Symbolic Reasoning with Multiple Large Language Models Combined by First-Order Logic. -- SimplyQRL: A Modular Benchmarking Library for Hybrid Quantum Reinforcement Learning. -- Enhancing World Models with Specialized Prediction Networks for Reinforcement Learning. -- Smart Mobility and Transportation Optimization. -- Clustering-Based Route Optimization for Mixed Ride-Sharing under Time Constraints. -- Origin-Destination Frequency Tensors and Their Application in Machine Learning Modelling. -- Fast-TRACLUS: An Optimized Trajectory Clustering Algorithm for Large-Scale Datasets. -- Action Space Size Effects in Reinforcement Learning for the Vehicle Routing Problem. -- Time Series and Forecasting Methods. -- Perplexity, Uncertainty, and the Limits of Active Learning. -- Channel selection and creation algorithms for Electroencephalography classification with HIVE-COTE. -- Multivariate Regime Identification and Prediction in Financial Markets via Gaussian Mixture and Gradient Boosting Methods. -- On-Edge Task Planning with Large Language Models for Service Robotics.

Sommario/riassunto

This book constitutes the proceedings of the 20th International Conference on Hybrid Artificial Intelligence Systems, HAIS 2025, held in Salamanca, Spain, during October 16–17, 2025. The 53 full papers included in this book were carefully reviewed and selected from 120 submissions. They focus on the following topical sections: Part I: Agricultural and Environmental Monitoring; Biomedical Applications; Cybersecurity and Network Protection; Data Mining and Decision Support Systems. Part II: Deep Learning and Representation Learning; HAIS Energy Applications; Evolutionary Computation and Optimization; Reinforcement Learning and AI Planning; Smart Mobility and Transportation Optimization; Time Series and Forecasting Methods.