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Mechanism. -- Leveraging Graph Networks and Generative Adversarial Networks for Controllable Trajectory Prediction. -- Nearest Neighbors Counterfactuals. -- An Attention-based Representation Distillation Baseline for Multi-Label Continual Learning. -- Pattern detection in abnormal district heating data. -- Harnessing Graph Neural Networks for Pattern Classification in Heterogeneous Event Graphs. -- Learn to Create Neighborhoods in Real-World Vehicle Routing Problem. -- PointerKex: A Pointer-based SSH Key Extraction method. -- Addressing The Permutation Flowshop Scheduling with Grey Wolf Optimizer. -- MCGRAN: Multi-Conditional Graph Generation for Neural Architecture Search. -- Generative reward machine for Reinforcement learning for Physical Internet Distribution Centre. -- Between accurate prediction and poor decision making: the AI/ML gap. -- Cross-Metapath based Hashing for Recommendation Systems. -- Beyond Iterative Tuning: Zero-Shot Hyperparameter Optimisation for Decision Trees. -- Augmented Human-AI Forecasting for Ship Refit Project Scheduling: A Predict-then-Optimize Approach. -- Evaluation of Document Deduplication Algorithms for Large Text Corpora. -- Hicks Traverse meets One-Factor SVM: Belief Incoherence Attractors. -- Synthetic Time Series for Anomaly Detection in Cloud Microservices. -- Radiotherapy Treatment Planning: An Integrated Optimization and Reinforcement Learning Approach. -- Leap: Inductive Link Prediction via Learnable Topology Augmentation. -- Estimating Completeness of Consensus Models: Geometrical and Distributional Approaches. -- Active Inference Meeting Energy-Efficient Control of Parallel and Identical Machines. -- Clarifying the Fog: Evaluating and Enhancing User Comprehension of Android Data Safety Documents.

Sommario/riassunto

The three-volume set LNAI 15508-15510 constitutes the refereed proceedings of the 10th International Conference on Machine Learning, Optimization, and Data Science, LOD 2024, held in Castiglione della Pescaia, Italy, during September 22–25, 2024. This year, in the LOD Proceedings decided to also include the papers of the fourth edition of the Symposium on Artificial Intelligence and Neuroscience (ACAIN 2024). The 79 full papers included in this book were carefully reviewed and selected from 127 submissions. The LOD 2024 proceedings focus on machine learning, deep learning, AI, computational optimization, neuroscience and big data that includes invited talks, tutorial talks, special sessions, industrial tracks, demonstrations and oral and poster presentations of refereed papers.