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Nota di contenuto	-- A Multi-Agent System Approach for Dynamic and Adaptive Daily Profile Detection in Building Data. -- Agile MLOps: Bridging the Gap Between Agility and Machine Learning Operations. -- Artificial Intelligence in Finnish and Swedish Workflows: A Comparative Survey of Micro- and Large-Scale Enterprises. -- Clustering by Limit-Cycles in Hopfield Neural Network. -- Enhancing Ransomware Detection Using Storage Access Pattern. -- Fault Detection in Inverter-Driven Permanent Magnet Synchronous Motor Systems using Semi-Supervised Learning. -- Fingerprint Minutiae-Based Cryptographic Key Generation: Towards Secure and Usable Authentication. -- Handling Anonymized Non-Numerical Features in Data using Transformations for Regression Models. -- Higher-Order Multi-Adaptive Neural Network Modeling of the Role of Epigenetics in Epilepsy. -- Historical Map Understanding Using End-to-end Methods. -- ICU Mechanical Ventilation Data Imputation. -- Immigration Detection in

Multilanguage Tweets Using Machine Learning Algorithms. -- Integrating Artificial Intelligence and Digital Tools to Enhance Learning and Accessibility in Music Education. -- Interest-Based Pattern Mining For Deforestation Analysis in the Kroumiria Region, Tunisia. -- Large-to-Small: Energy Consumption Reduction of Training the Fully Connected Layers. -- Malware Detection through API Call Frequency: Assessing Early-Stage versus Full-Time Classification Potential. -- Metaheuristics-based Long Short-Term Memory Optimization for Emotion Classification. -- Multi-order Adaptive Dynamical System Modeling of the Role of Epigenetics in the Development of Hypomania. -- Off-Policy Inspired Imitation Learning for Generation of Adversarial Malware. -- PixelPath: Predicting UAV Trajectories in GPS-Restricted Environments Using Image Feature Extraction and Machine Learning. -- Predicting Vessel Arrival Time Using Machine Learning for Enhanced Port Efficiency and Optimal Berth Allocation. -- Semi-Supervised Learning for Early Certification Prediction in MOOCs. -- So-Connect: recommending layer-wise connections in social networks using SNN-DBSCAN. -- Time Series analysis using Memory Enhanced Liquid Neural Network. -- A Web-Based Information System For Medical Forensics Incorporating Generative AI in Reports Compilation. -- Explainable AI-Driven Feature Selection for Improved Intrusion Detection Systems in the Internet of Medical Things. -- Explainable Surface-Level Malware Analysis through Scalable and Accurate Feature Selection. -- Integrating AI and RDF Knowledge Graphs with MITRE ATT\&CK for CTI Insights. -- Markov-Enhanced Clustering for Long Document Summarization: Tackling the 'Lost in the Middle' Challenge with Large Language Models. -- Merged LIME and SHAP eXplanation (MLSX): BERT case in NER Task. -- OPJUSTICE - A Multi-label Text Classification Model. -- SHAKTI: A 2.5 BILLION PARAMETER SMALL LANGUAGE MODEL OPTIMIZED FOR EDGE AI AND LOW-RESOURCE ENVIRONMENTS. -- Unified Mental Health Disorder Detection on Social Media.

| Sommario/riassunto | This four-volume set constitutes the proceedings of the 21st IFIP WG 12.5 International Conference on Artificial Intelligence Applications and Innovations, AIAI 2025, which was held in Limassol, Cyprus, during June 2025. The 123 full papers and 7 short papers were presented in this volume were carefully reviewed and selected from 303 submissions. They focus on ethical-moral AI aspects related to its Environmental impact, Privacy, Transparency, Bias, Discrimination and Fairness. |