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Nota di contenuto	-- An Ensemble Approach to Predict Immunotherapy Efficacy in Non-Small Cell Lung Cancer using Digital Pathology. -- An Integrated System for the Texture Analysis of Prostate Ultrasound Images Based on Different Pre-processing Schemes. -- Automated Prostate Segmentation in Ultrasound Images Based on Different Pre-processing Schemes. -- Balancing Accuracy and Energy: the Impact of Window Size on Sensor-based Human Activity Recognition. -- Classifying cognitive states of Alzheimer's Disease with machine learning using digital biomarkers from the Bio-Hermes study cohort. -- Convolutional Autoencoder-based Dimensionality Reduction for EEG Microstate Analysis. -- DADA-MED: Data-Augmented Dual Attention Model for Enhanced Medication Recommendations. -- Diaphragmatic Motion Analysis in Neonates using Ultrasound Simulated Videos. -- Enhancing Sound-Based Sleep Quality Assessment by Multi-modal Knowledge Distillation. -- Exploring FIWARE-based Data Model for Data Sharing Platforms. -- Functional Connectivity Disruptions in Alzheimer's Disease: A Resting-State fMRI Classification Study. -- Incorporating Medical Assistants in eHealth Environments Using an Agentic RAG

Approach. -- Normative Modeling of Functional Connectivity Alterations in Psychiatric Disorders and Chronic Pain: A Resting-State fMRI Approach. -- On the Interplay of Epigenetics, ADHD, Decision Making and Digital Media Usage: an Adaptive Dynamical System Modelling Approach. -- Optimized Machine Learning Models and Stacking Hybrid Approach for Chronic Kidney Disease Prediction. -- Optimizing Alzheimer's Detection: A Comparative Analysis of Pre-Processing Techniques and FreeSurfer Integration with EfficientNetV2S. -- Optimizing Life Insurance Risk Prediction: A Comparative Analysis of Traditional, Ensemble, and Deep Learning Models. -- Proteomics, Neuropsychological and Demographics Multi-Modal Machine Learning Approach to Alzheimer's Disease Prediction on the Bio-Hermes Study Cohort. -- Automating Industrial Quality Control: A Multimodal LLM and RAG Framework for Anomaly Detection. -- Benchmarking Vision Language Models on German Factual Data. -- Comparative Analysis and Evaluation of SLMs and LLMs for Stock Price Movement Prediction. -- Enhancing Answer Reliability Through Inter-Model Consensus of Large Language Models. -- Enhancing Cryptocurrency Sentiment Analysis with GPT-4: A Comparative Study. -- Large Language Model-based Federated Zero-Shot Learning for Intrusion Detection in Smart Grids. -- Leveraging Large Language Models for Emotion Recognition: Case of Employee Satisfaction Surveys. -- LLM-Based Automated Hallucination Detection in Multilingual Customer Service RAG Applications. -- Pareto-Optimized Open-Source LLMs for Healthcare via Context Retrieval. -- Summarizing Online Discussions with Prototype Relation Networks Using Large Language Models. -- SurveyBot: A New Era of Web Survey Pretesting. -- Toward Safer and Trustworthy Chatbots in E-Commerce: An LLM-as-a-Judge Approach for Ethical Evaluation. -- Vulnerability Patch Prediction using LLM based Bert Model with Trustworthy AI Practice for Cyber Security Enhancement.

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.
