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Livello bibliografico	Monografia
Nota di contenuto	-- Machine Learning Based Classification of Myopic Maculopathy. -- Alzheimer's Detection using XAI in Capsule Network & Post Detection Management with Portable Solution. -- Machine Learning-Based Optimization of FireDepartment Interventions in Ain, Doubs, and

Yvelines in France. -- Comparative Analysis of Machine Learning Algorithms for Breast Cancer Prediction Using PCA-Based Feature Reduction. -- Deep Learning Approaches in EEG Analysis for Early Detection of Alzheimer's Disease and Mild Cognitive Impairment: A Mini Systematic Review. -- New Heuristics for Dominating Tree Problem. -- Semi-bidirectional RNNs: Making unidirectional RNNs as accurate as Bidirectional ones. -- A Comprehensive Study of Rainfall Prediction in Australia through Hybrid Machine Learning and Deep Learning Techniques. -- Feedforward Neural Network Assisted NILM Method Applied on Different Households and Appliance Groups with Selectable Balanced Data. -- Emotion Classification In-Context in Spanish. -- Multi-View Text Data Stream Clustering via Late Fusion. -- GalaFormer: towards unraveling of galaxy morphology. -- Explainable Boosting Machines for Lung Cancer Prediction and Explanation. -- Light Weight Graph Neural Network Models for PPG Signal Quality Assessment. -- Development of Machine Learning Models for EEG-Based Alzheimer's Diagnosis. -- Electrocardiogram Signal Quality Assessment Using Deep Learning Model. -- Autism Rehabilitation with Meltdown Prediction Using Facial Expression and Hand Gesture Detection. -- Enhancing Alzheimer's Disease Detection: A Hybrid Approach with CNNs and Vision Transformers. -- Multimodal Machine Learning for stress detection : A Revisit of Modality Selection. -- Application of AI and Informatics in Pattern Recognition. -- Utilising a novel multi-level multi-feature fusion approach to detect and diagnose Driver Fatigue in real-time. -- A Deep Learning based Potato Leaf Disease Detection System. -- Fijian ID Card Classification with Convolutional Neural Networks for Industrial Use. -- Two-Stage Tuning and Bayesian Optimization for the edRVFL Network. -- Shopping Recommendation Based on Profiling Customers Using Face Recognition and Association Rule Mining. -- Two robust statistical methods for describing textures in noisy images. -- Application of AI and Informatics in Network, Security and Analytics. -- Harvesting Insights: Unraveling Olive Dynamics and Climate Fluctuations through Regression and SHapley Additive explanations. -- Deep learning-based Image classification using segmented and superimposed leaf images. -- Enhancing Temporal Scoping in Knowledge Bases: Neural Network Approaches for Time Interval Incorporation Using Wikidata. -- Optimizing Lithium-ion Battery Recycling: Profits Unveiled through Explainable AI and Transportation Mode Analysis. -- Autonomous Rearranging Evaluation of a Room Based on Color Region Ratio. -- Development of a Machine Learning Classification Model for Improved Rainfall Prediction in Bangladesh. -- Forecasting Traffic Congestion Using Air Pollution Data: A Case Study of Casablanca, Morocco. -- A New Association Rule Mining Technique. -- A Privacy-Preserving Federated Learning Protocol for Multilayer Perceptrons.

Sommario/riassunto

This book constitutes the refereed post-conference proceedings of the Fourth International Conference on Applied Intelligence and Informatics, AII 2024, held in London, United Kingdom, during December 18–20, 2024. The 34 full papers included in these proceedings were carefully reviewed and selected from 118 submissions. They are organized in these topical sections as follows: Application of AI and Informatics in Pattern Recognition and Application of AI and Informatics in Network, Security, and Analytics. .
