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Nota di contenuto -- A Fine-grained Actor-Based Autoencoder Model. -- Advanced IoT-

Al Integration for Predictive Management of Positive Temperature Cold Storage Systems. -- Al-Driven Artistry - Transforming Guitar Design with Generative Models. -- An Integrated Convolutional & Transformer Architecture for Word-Based Handwriter Identification. -- Assessing Deep Learning Challenges in Lightweight AES Cryptanalysis. -- Border Gateway Protocol Hijacks and Anomalies Detection: A Graph-based Deep Learning Approach. -- Collaborative Split Federated Learning with Parallel Training and Aggregation. -- Comparison of Machine Learning and Deep Learning Models for Change of Direction Classification Using Engineered Features. -- Declarative, generic definition and effective implementation of transfer learning algorithms. -- Disaster Data Driven Forecasting for Preemptive Crisis Response. --Domain Adaptation for Automated Tag Prediction in Competitive Programming. -- Enhancing Agricultural Disease Management: An Application of Deep Learning for Fusarium Head Blight Detection in Wheat Crops. -- Facial Expression Recognition Using Dual Direction Attention and Diffusion Models with Self-Supervised Learning. --

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## 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.

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