1. Record Nr. UNINA9911011654103321

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Titolo	Engineering Applications of Neural Networks : 26th International Conference, EANN 2025, Limassol, Cyprus, June 26–29, 2025, Proceedings, Part II / / edited by Lazaros Iliadis, Ilias Maglogiannis, Efthyvoulos Kyriacou, Chrisina Jayne
Pubbl/distr/stampa	Cham : , : Springer Nature Switzerland : , : Imprint : Springer, , 2025
ISBN	3-031-96199-4
Edizione	[1st ed. 2025.]
Descrizione fisica	1 online resource (450 pages)
Collana	Communications in Computer and Information Science, , 1865-0937 ; ; 2582
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Disciplina	006.3
Soggetti	Artificial intelligence Computer networks Software engineering Social sciences - Data processing Artificial Intelligence Computer Communication Networks Software Engineering Computer Application in Social and Behavioral Sciences
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di contenuto	-- A Human-Centric Decision Support System for Zero-Defect Manufacturing Enabled by Human-in-the-Loop Learning. -- A Norm-Chatbot: Local LLM-Vision with Vision-based RAG for Complex Production Documents and Task-Specific Responses. -- Artificial Intelligence versus Food Wastage in Bakeries. -- Assistive X for Amyotrophic Lateral Sclerosis. -- Autonomous Navigation in Swarm of UAVs Using Spatio Temporal Data and Constrained-Reinforcement Learning. -- Data-Driven BLEVE Overpressure Prediction Using Explainable Machine Learning. -- ESN architectures for industrial process modelling to develop digital twins. -- Harnessing Machine Learning for Rain Induced Landslide Detection and Analysis. --

Leveraging Computational Geometry for Data Augmentation in Medical Flow Fields Classification. -- Machine Learning Analysis of Dissolved Oxygen at the Hydrological Station of C. Giannouli Greece. -- Privacy-Preserving and Personalized AI Modules for E-Commerce Platforms. -- Quench detection and localization via interpretable machine learning. -- Spatiotemporal Multiplex Network Model for Predicting Forced Outage Severity in Distribution Grids. -- AI-Based Water Quality Monitoring Module for the Segura Hydrographic Confederation Platform. -- An Integrated Approach for Short-Term Forecasting of Highway Vehicle Flows Based on Singular Spectrum Analysis and Artificial Neural Networks. -- Assessing Mobility Policies by Traffic Simulation and Change Detection. -- Automatic long-term forecasting of mortality rates with generalized regression neural networks. -- Contextualized segmentation of milling processes using discrete rule-based pattern recognition. -- Estimation of river Ebro streamflow using Fuzzy Inference Systems & FCM. -- Forecasting vehicle crossing volumes by using Nonlinear Autoregressive Neural Networks sets. -- Retrospective clustering of COVID-19 mortality time series using dynamic time warping.

Sommario/riassunto

The two-volume set CCIS 2581 and 2582 constitutes the refereed proceedings of the 26th International Conference on Engineering Applications of Neural Networks, EANN 2025, held in Limassol, Cyprus during June 26–29, 2025. The 41 full papers included in these proceedings were carefully reviewed and selected from 101 submissions. These papers demonstrate the vitality of Artificial Intelligence algorithms and approaches, as well as AI applications.