1. Record Nr. UNINA9910983373303321

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Titolo	Neural Computing for Advanced Applications : 5th International Conference, NCAA 2024, Guilin, China, July 5–7, 2024, Proceedings, Part I / / edited by Haijun Zhang, Xianxian Li, Tianyong Hao, Weizhi Meng, Zhou Wu, Qian He
Pubbl/distr/stampa	Singapore : , : Springer Nature Singapore : , : Imprint : Springer, , 2025
ISBN	9789819770014 9819770017
Edizione	[1st ed. 2025.]
Descrizione fisica	1 online resource (489 pages)
Collana	Communications in Computer and Information Science, , 1865-0937 ; ; 2181
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Disciplina	006.3
Soggetti	Artificial intelligence Computer engineering Computer networks Computers Computer vision Computer science - Mathematics Artificial Intelligence Computer Engineering and Networks Computing Milieux Computer Vision Mathematics of Computing
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di contenuto	-- Neural network (NN) theory, NN-based control systems, neuro-system integration and engineering applications. -- WPG-CAM: A novel weighted feature fusion CAM method based on information entropy using pooling and Gaussian upsampling. -- Radical Basis

Neural Network Based Anti-sway Control for 5-DOF Ship-mounted Crane. -- Online Car-hailing Order Matching Method Based on Demand Clustering and Reinforcement Learning. -- Multi-objective optimization of antenna based on improved WOA-BP neural network. -- A multi-mechanism collaborative seagull optimization algorithm for optimizing BP neural network classification model. -- An Analysis on Balance Model of Exploration and Exploitation Under Decoupled-Learning Pattern for Large-Scale Particle Swarm Optimizers. -- Marine Ship Detection Under Fog Conditions Based on an Improved Deep-Learning Approach. -- Skeleton-Based Point Cloud Sampling and its Facilitation to Classification. -- Multi-agent reinforcement learning for taxi-fleet cruising strategy in ride-hailing services. -- A new indoor occupancy detection model by integrating the efficient multi-scale attention mechanism into the EfficientDet model. -- A Novel Automatic Generation Method for Neural Network by Using Iterative Function System. -- A Predictive Maintenance Platform for a Conveyor Motor Sensor System Using Recurrent Neural Networks. -- A deep learning-based method facilitates scRNA-seq cell type identification. -- Adaptive Hierarchical Clustering based Student Group Exercise Recommendation via Multi-Objective Evolutionary Method. -- Quantile Regression and GCN Ensembled Hybrid Interval Forecasting Model for Wind Power Generation. -- Efficient Path Planning for Large-Scale Vehicular Networks via Multi-Agent Mean Field Reinforcement Learning. -- A fast and accurate reconstruction method for boiler temperature field based on inverse distance weight and long short-term memory. -- RoBERTa-WWM-CBA:A Mental Disease Identification Model Based on RoBERTa-WWM and Hybrid Neural Networks. -- Computer vision, and their engineering applications. -- A 3D Pose Estimation Method based on Deep Learning for Markerless Fish. -- Safety Helmet-wearing Detection Method Fusing Pose Estimation. -- Clothes Image Retrieval via Learnable FashionCLIP. -- Mannequin2Real+: A Two-Stage Framework for Generating Photorealistic Model Images from Mannequins with Specified Identities for Clothing Display. -- A MSARM-based EIT Image Reconstruction Method. -- A Survey on Deep Learning-Based Medical Image Registration. -- Design and Development of Wearable Knee Rehabilitation System based on Motor Imagery Brain Computer Interface. -- SHGNN: Substructure-Aware and High Expressive Graph Neural Networks for Graph Classification. -- Sensor Embedding and Variant Transformer Graph Networks for Multi-Source Data Anomaly Detection. -- A Method for Sleep Staging Using Single-Channel EEG Signals Based on Horizontal Visibility Graph and Graph Isomorphism Network. -- GT-ACGAN : Graph Topology-based Auxiliary Classifier GAN for graph long-tailed classification. -- SNN-CPG Hierarchical Control Enhanced Motion Performance of Robotic Fish Based on STDP. -- Pedestrian Fall Detection Algorithm Based on Improved YOLOv7. -- A Study on Image Reconstruction Based on Decoding fMRI Through Extracting Image Depth Features.

Sommario/riassunto

This book constitutes the refereed proceedings of the 5th International Conference on Neural Computing for Advanced Applications, NCAA 2024, held in Guilin, China, during July 5–7, 2024. The 89 revised full papers presented in these proceedings were carefully reviewed and selected from 227 submissions. The papers are organized in the following topical sections: Part I: Neural network (NN) theory, NN-based control systems, neuro-system integration and engineering applications; Computer vision, and their engineering applications. Part II: Computational intelligence, nature-inspired optimizers, their engineering applications, and benchmarks. Part III: Natural language processing, knowledge graphs, recommender systems, multimodal

Deep Learning, and their applications; Fault diagnosis and forecasting, prognostic management, Time-series analysis, and cyber-physical system security.