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Nota di contenuto	-- Neural Computing : -- Online Detection Method for Burst Bead Bubble Defects Based on ResNet. -- Incremental Learning for Rolling Bearing Fault Diagnosis Using an Adaptive Network Channel Module. -- Segmentation of Hepatic Vessels with Deep Neural Network. -- Temperature Prediction of Lithium Battery Packs Based on an Improved Convolutional Long Short-Term Memory Network. -- Self-adaptive Collaborative Ensemble Learning for Medical Image Classification. --

Adaptive Attention Mechanism Based on Dynamic Event Priority for Highway Surveillance. -- Protein-Protein Contact Prediction using Structure-Informed Sequences and Protein Language Models. -- A Memristive Circuit Based on Q-learning and Operant Conditioning. -- Evolutionary Computation: -- A Hybrid Feature Construction and Feature Selection Approach Using Genetic Programming and Whale Optimization Algorithm. -- Dual-Population Co-Sampling Algorithm for Large-Scale Multi-Objective Optimization. -- DNA Image Encryption Based on Chaotic Multi-Objective Particle Swarm Optimization. -- A Knee Solution-Based Membrane-Inspired Evolutionary Algorithm for Multi-objective Multi-task Optimization. -- in-Archive Interval Many-Objective Optimization Algorithm for Multi-Wireless-Charging Vehicle Scheduling Problem. -- Research on Multi-center Vehicle Scheduling Problem based on Improved Hybrid Algorithm. -- Enhanced Comprehensive Learning Particle Swarm Optimization with Local Search. -- An Evolutionary Method Combining with Isolation Forest for Anomaly Detection on High Dimensional Data. -- Multi-strategy Improved Sparrow Search Algorithm and Its Application. -- Traditional Chinese Medicine Prescription by Evolutionary Optimization. -- Evolutionary Multi-objective Design of Growth-Coupled Microbial Cell Factories. -- Vehicle Scheduling Optimization with Capacity Constraints Based on Improved Particle Swarm Algorithm.

Sommario/riassunto

The two-volume set CCIS 2530 and 2531 constitutes the refereed post-conference proceedings of the 19th International Conference on Bio-Inspired Computing: Theories and Applications, BIC-TA 2024, held in Suzhou, China, during December 20–22, 2024. The 41 full papers presented in these proceedings were carefully reviewed and selected from 139 submissions. The papers are organized in the following topical sections: Neural Computing, Evolutionary Computation, Bio-inspired Computing, and Applications.
