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Nota di contenuto	-- Multiobjective Optimization. -- Enhanced Multi-objective Particle Swarm Optimization Algorithms. -- Evolutionary Multiobjective Optimization of Mixed Neural Network Controllers for Hexapod Robot Locomotion Control. -- Entropy-Informed Stochastic Improvement for Indicator-Based Multiobjective Optimization. -- LA-NSGA-II: A Multi-Objective Evolutionary Approach for Patient Referral Optimization in Integrated Healthcare Networks. -- Constrained Multimodal Multi-objective Optimization Algorithm Based on Improved PPS Framework. -- A Constrained Multi-Objective Differential Evolution Algorithm Based on Evolutionary Multi-Task Optimization. -- Approaches for Classification and Feature Selection. -- Comparative Analysis of

Segmentation and Classification Models of Retinopathies in Ophthalmological Images. -- Integration of Magnetic Resonance Imaging and Neuropsychological Data for Automated Parkinson's Diagnosis. -- Integrating Multi-modal Contrastive Learning and Multi-scale Feature Extractor for Liver Cancer Classification. -- Optimization of Classification Models for Heart Disease: Comparison between Feature Selection and Dimensionality Reduction Techniques. -- Enhanced Differential Evolution-Based Multi-modal Feature Selection in Power Equipment Defect Detection. -- Multi-Strategy Improved Pelican Optimization Algorithm for Solving Minimal Attribute Reduction Problem. -- Prediction and Detection Algorithms. -- An Efficient Neural Network-based Mathematical Modelling for Iron Ore Quality Prediction. -- How Data Missing Affects Stability of Feature Selection: An Empirical Study. -- Research on Sound Source Identification Method for Beach Search and Rescue Based on Convolutional Neural Network. -- A Mutual Information-based Adaptive Large Neighborhood Search for Solving Inventory-constrained Cigarette Formulation Maintenance Problem. -- Ingredient Detection from Low-Quality Images of Food Labels. -- From Single-tasking Swarming to Multi-tasking Heterogeneous Swarming for Solving Non-uniform Area Coverage Problems. -- A Lightweight YOLOv11-based Model with Small Object Enhance Pyramid for Underwater Object Detection in Aerial Imagery. -- Machine Learning. -- Dual-Path Optimization for Open-World Test Time Training. -- Distributed Geometric Control of Underactuated UAVs for Cooperative Transportation. -- Design and Implementation of Risk Control Model and Scenario Adaptation Method Based on Graph Machine Learning. -- Incremental Update Strategy for Continuous Action Iterated Hierarchical Dilemma. -- Modeling of Parent-Child Interaction through Facial Expressions for Childcare Support Systems. -- Fast Symbolic Regression Benchmarking.

Sommario/riassunto

This two-volume set LNCS 16011 and 16012 constitutes the refereed post-conference proceedings of the 16th International Conference on Advances in Swarm Intelligence, ICSI 2025, held in Yokohama, Japan, during July 11-15, 2025. The 54 revised full papers presented in these proceedings were carefully reviewed and selected from 116 submissions. The papers are organized in the following topical sections: Particle Swarm Optimization; Swarm Optimization Algorithms; Swarm of Large Language Models; Agent and Multi-agents; Vehicle Routing; Multiobjective Optimization; Approaches for Classification and Feature Selection; Prediction and Detection Algorithms; Machine Learning.
