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Nota di contenuto	-- Evolutionary Computation and Learning. -- Multilevel memetic community detection algorithm based on Jaccard mutation and multi neighbor search: MMCD-JM. -- Contribution Based Adaptive Multi-Population Artificial Bee Colony Algorithm for Feature Interaction Selection on High-Dimensional Data. -- A Multi-Phase Hybrid Optimization Framework Integrating Active Subspace PSO and Periodic Pattern Search for 3D Path Planning. -- Fusion of ECA-Net with Hamiltonian Deep Neural Networks and Dynamic Step Size Optimization. -- An Unsupervised CLIP-Based Hashing Framework with Distribution Optimization. -- Optimization of Marine Meteorological Prediction Accuracy via Multi Parameter Fusion. -- An

improved contribution based cooperative co-evolution with adaptive computational resource allocation. -- Surrogate-Assisted Stochastic Programming with Collective Perception for VR Task Offloading. -- Improved BPSO for TDMA Scheduling in Ad hoc. -- Multi-Task Allocation and Path Planning for AUV in Seabed Harvesting Operations within Marine Ranching. -- Signal Processing. -- MedMEN: Multi-granularity Encoding Network for Medical Visual Question Answering. -- SimAM-UNet: A High-Fidelity Music Denoising Model in Complex Environments. -- CB-PSR: Adaptive Contextual Biasing for Prompt-driven Speech Recognition. -- Epileptic Seizure Detection Using Deep Adversarial Metric Learning. -- RCDS: High-Precision Displacement Measurement Based on RFID Mutual Coupling Signal Feature Analysis. -- Swarm Intelligence and Optimization. -- ALMBO: An Effective Multi-Fidelity Bayesian Optimization Method for Mixed-Variable Hyperparameter Optimization. -- A Discrete Mayfly Optimization Algorithm for the Traveling Salesman Problem and Its Application in Automated Guided Vehicle Routing Optimization. -- A Dynamically Enhanced Grey Wolf Optimizer for Real-Time Error Compensation in Logistics Sorting Encoders. -- Advanced Multi-space Evolutionary Search for Solving Large-scale Optimization Problems. -- An Adaptive Gradient-directed Differential Evolution Algorithm for Training Neural Networks. -- GAPSO-ACO: Graph Attention-PSO Enhanced Ant Colony Optimization for Capacitated Vehicle Routing Problems. -- Dynamic multi-objective optimization algorithm based on individual transfer and diversity maintenance. -- A Hybrid Reinforcement Learning Method for Mixed Flow Chemical Production Scheduling Problem with Material Distribution. -- Multi-Directional Yielding Snake Optimizer with Pull-Push Optimization for Engineering Design Problem. -- A Q-learning Hyper-Heuristic for Energy-Efficient Integrated Distributed Hybrid Flow Shop Scheduling. -- A Two-stage Q-learning-based Hyper-heuristic Evolutionary Algorithm for the Distributed Hybrid Flow Shop Scheduling Problem with Heterogeneous Factories. -- LLM-PSO: A Semantically Enhanced UAV Path Planning Algorithm Based on DeepSeek. -- An Approach to Develop Assurance Models toward Safety of the Intended Functionality. -- FDBSCAN: A Dynamic Fairness Optimization Approach for Density-Based Clustering. -- A Dual-Indicator Guided Multi-Objective and Many-Objective Particle Swarm Algorithm Applied to Neural Network Architecture Search. -- An Improved CBBA Algorithm for Multi-UAV Multi-Task Allocation in Dynamic Scenarios. -- Personalized Federated Learning with Adaptive Regularization. -- A Cooperative Optimization Framework for Semi-Supervised Military Object Detection in Complex Environments. -- Memristive Binary Firefly Algorithm with Cosine Similarity. -- A Novel UAV Path Planning Approach: DE-SPSO. -- The Feature Selection Algorithm based on Cockroach Swarm Optimization Integrating Mutual Information and Granular Balls. -- Virtual Reality and Human-Computer Interaction. -- CSFA-PMCCNN: a Parallel Multiscale Convolutional Capsule Neural Network Based on Channel-Space-Frequency Attention Mechanism for Speech Imagery EEG Signals Classification. -- CPR-KANsformer: An Adaptive Multi-dimensional CSI Feature Extraction Model for Human Activity Recognition. -- Masked Appearance Restoration for High Resolution Talking Face Generation. -- A Virtual Reality-based Platform for Cross-language Conferences. -- MPC-augmented Reinforcement Learning for Motion Cueing Algorithms in Driving Simulators. -- A Phoneme-Aware Multi-Task Learning Framework with Dynamic Prioritization for Speech Emotion Recognition. -- Lightweight Multimodal Physiological Signal Fusion for Motion Sickness Detection and Prediction in VR.

Sommario/riassunto

The 12-volume set CCIS 2564-2575, together with the 28-volume set LNCS/LNAI/LNBI 15842-15869, constitutes the refereed proceedings of the 21st International Conference on Intelligent Computing, ICIC 2025, held in Ningbo, China, during July 26-29, 2025. The 523 papers presented in these proceedings books were carefully reviewed and selected from 4032 submissions. This year, the conference concentrated mainly on the theories and methodologies as well as the emerging applications of intelligent computing. Its aim was to unify the picture of contemporary intelligent computing techniques as an integral concept that highlights the trends in advanced computational intelligence and bridges theoretical research with applications. Therefore, the theme for this conference was "Advanced Intelligent Computing Technology and Applications".
