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	Nota di contenuto	-- Machine Learning and Applications. -- Review of Traveling Salesman Problem Solution Methods. -- MAD-SGS: Multivariate Anomaly Detection with Multi-scale Self-learned Graph Structures. -- A Two-level Game-theoretic Approach for Joint Pricing and Resource Allocation in Multi-user Mobile Edge Computing. -- Expert-Guided Deep Reinforcement Learning for Flexible Job Shop Scheduling Problem. -- Eating Behavior Analysis of Cruise Ship Passengers based on K-means Clustering Algorithm. -- The Bilinear-MAC Network for Visual

Reasoning. -- Artificial Intelligence Analysis of State of Charge Distribution in Lithium-ion Battery based on Ultrasonic Scanning Data. -- Artificial Intelligence Analysis of State of Charge Distribution in Lithium-ion Battery based on Ultrasonic Scanning Data. -- A Sample Reuse Strategy for Dynamic Influence Maximization Problem. -- Prediction of Rice Processing Loss Rate Based on GA-BP Neural Network. -- Research on Target Value Assessment Method based on Attention Mechanism. -- An Improved Trajectory Planning Method for Unmanned Aerial Vehicles in Complex Environments. -- UUV dynamic path planning algorithm based on A-Star and dynamic window. -- Cuckoo Search Algorithm with Balanced Learning to Solve Logistics Distribution. -- Badminton Detection using Lightweight Neural Networks for Service Fault Judgement. -- Intelligent Control and Application. -- Controllability of Windmill Networks. -- Incremental Learning with Maximum Dissimilarity Sampling Based Fault Diagnosis for Rolling Bearings. -- Application and Prospect of Knowledge Graph in Unmanned Vehicle Field. -- Historical Location Information based Improved Sparrow Search Algorithm for Microgrid Optimal Dispatching. -- Optimization of Large-Scale Distribution Center Location Selection in Fresh Produce Transportation. -- Optimization of Large-Scale Distribution Center Location Selection in Fresh Produce Transportation. -- Application of Multi-fidelity Surrogate Models to the Noisy Optimization Problems of Carbon Fiber Polymerization Process Parameters. -- Multi-strategy Improved Kepler Optimization Algorithm. -- A Method of Pathing for Underwater Glider Cluster Based on Optimization Algorithm. -- UUV Fault Diagnosis Model based on Support Vector Machine. -- Research on Airborne Radar Multi-target Continuous Tracking Algorithm on Sea Surface based on Deep Kalman Filter. -- Application-Aware Fine-Grained QoS Framework for 5G and Beyond. -- Research on UUV Rudder Angle Control Method based on Sliding Mode Control. -- Research on Distributed Control Technology of Ship pod Propeller Turning Small Angle. -- Distributed Intelligence Analysis Architecture for 6G Core Network. -- Research on Local Collision Avoidance Algorithm for Unmanned Ship Based on Behavioral Constraints. -- Research on Dynamic Path Planning Algorithm for Unmanned Underwater Vehicles based on Multi-step Mechanism DDQN. -- Dynamic Analysis of Immersion Pump Rotors Considering Fluid Effects. -- Research on USV Heading Control Algorithm Based on Model Predictive Control.

Sommario/riassunto	The two-volume set CCIS 2061 and 2062 constitutes the refereed post-conference proceedings of the 18th International Conference on Bio-Inspired Computing: Theories and Applications, BIC-TA 2023, held in Changsha, China, during December 15–17, 2023. The 64 revised full papers presented in these proceedings were carefully reviewed and selected from 168 submissions. The papers are organized in the following topical sections: Volume I: Evolutionary Computation and Swarm Intelligence; and Membrane Computing and DNA Computing Volume II: Machine Learning and Applications; and Intelligent Control and Application.