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	Nota di contenuto	Swarm Robotics and UAV A Blockchain-Based Service-Oriented Framework to Enable Cooperation of Swarm Robots -- Collective Behavior for Swarm Robots with Distributed Learning -- Exploration of Underwater Environments with a Swarm of Heterogeneous Surface Robots -- Integrating Reinforcement Learning and Optimization Task: Evaluating an agent to dynamically select PSO communication topology -- Filho Swarm Multi-agent Trapping Multi-target Control with Obstacle Avoidance -- A Novel Data Association Method for Multi-target Tracking Based on IACA -- MACT: Multi-agent Collision Avoidance with Continuous Transition Reinforcement Learning via

Mixup -- Research on UAV Dynamic Target Tracking with Multi-sensor Position Feedback -- Multiple Unmanned Aerial Vehicles Path Planning Based on Collaborative Differential Evolution -- Design and Analysis of VLC-OCC-CDMA Rake System with Multiple Sources -- x Machine Learning Noise-tolerant Hardware-aware Pruning for Deep Neural Networks -- Nature Inspired Algorithm to Promoting Diversity in Recommender Systems -- Analysis of SIR Compartmental Model Results with Different Update Strategies -- Research on Location Selection of General Merchandise Store Based on Machine Learning -- CF-PMSS: Collaborative Filtering Based on Preference Model and Sparrow Search -- Asynchronous Federated Learning Framework Based on Dynamic Selective Transmission -- Data Mining Small Aerial Target Detection Algorithm Based on Improved YOLOv5 -- Secondary Pulmonary Tuberculosis Lesions Detection Based on Improved YOLOv5 Networks -- Abnormal Traffic Detection based on a Fusion BiGRU Neural Network -- A Fabric Defect Detection Model Based on Feature Extraction of Weak Sample Scene -- Intrusion Detection Method Based on Complementary Adversarial Generation Network -- EEG-Based Subject-Independent Depression Detection Using Dynamic Convolution and Feature Adaptation -- Multi-label Ensemble Defense Scheme Based on Negative Correlation -- Analysis of the Impact of Mathematics Courses on Professional Courses in Science and Engineering Majors -- Intelligent of Clustering Algorithms to Sparseness of One Correlation Network -- Routing and Scheduling Problems Monte Carlo Tree Search with Adaptive Estimation for DAG Scheduling -- Resource Allocation in Heterogeneous Network with Supervised GNNs -- Petrosian Satellite downlink scheduling under breakpoint resume mode -- A Repetitive Grouping Max-Min Ant System for Multi-Depot Vehicle Routing Problem with Time Window -- Secure Access Method of Power Internet of things based on Zero Trust Architecture -- On the Complete Area Coverage Problem of Painting Robots -- Reachability Map-based Motion Planning for Robotic Excavation -- Reinforced Vision-and-Language Navigation Based on Historical BERT -- Stock Prediction and Portfolio Optimization Meta-heuristics for Portfolio Optimization: Part I – Review of Meta-heuristics -- Meta-heuristics for Portfolio Optimization: Part II - Empirical Analysis . Hierarchical Node Representation Learning for Stock Prediction -- Application of APSO-BP Neural Network Algorithm in Stock Price Prediction -- The Research in Credit Risk of Micro and Small Companies with Linear Regression Model -- Bo ICSI-Optimization Competition Deep-Layered Differential Evolution -- Dual-Population Differential Evolution L-NTADE for ICSI-OC'2023 Competition -- Group Simulated Annealing Algorithm for ICSI-OC.

| Sommario/riassunto | This two-volume set LNCS 13968 and 13969 constitutes the proceedings of the 14th International Conference on Advances in Swarm Intelligence, ICSI 2023, which took place in Shenzhen, China, China, in July 2023. The theme of this year's conference was "Serving Life with Swarm Intelligence". The 81 full papers presented were carefully reviewed and selected from 170 submissions. The papers are organized into 12 cohesive sections covering major topics of swarm intelligence research and its development and applications. The papers of the first part cover topics such as: Swarm Intelligence Computing; Swarm Intelligence Optimization Algorithms; Particle Swarm Optimization Algorithms; Genetic Algorithms; Optimization Computing Algorithms; Neural Network Search & Large-Scale Optimization; Multi-objective Optimization. |