1. Record Nr. UNISA996691676603316

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| Titolo | Advances in Swarm Intelligence : 16th International Conference on Swarm Intelligence, ICSI 2025, Yokohama, Japan, July 11–15, 2025, Proceedings, Part I / / edited by Ying Tan, Yuhui Shi |
| Pubbl/distr/stampa | Singapore : , : Springer Nature Singapore : , : Imprint : Springer, , 2026 |
| ISBN | 981-9509-82-3 |
| Edizione | [1st ed. 2026.] |
| Descrizione fisica | 1 online resource (593 pages) |
| Collana | Lecture Notes in Computer Science, , 1611-3349 ; ; 16011 |
| Altri autori (Persone) | ShiYuhui |
| Disciplina | 006.3824 |
| Soggetti | Computer science<br>Computer engineering<br>Computer networks<br>Machine learning<br>Computer science - Mathematics<br>Computational intelligence<br>Theory of Computation<br>Computer Engineering and Networks<br>Machine Learning<br>Mathematics of Computing<br>Computational Intelligence |
| Lingua di pubblicazione | Inglese |
| Formato | Materiale a stampa |
| Livello bibliografico | Monografia |
| Nota di contenuto | -- Particle Swarm Optimization. -- An Empirical Analysis of Particle Swarm Optimisation Approaches for Multi-objective Optimisation. -- An Improved Particle Swarm Optimization Algorithm for Vehicle Routing Problem with Time Windows. -- Density-Aware and Particle Swarm Optimized WGAN for Medical Insurance Fraud Detection. -- Application of PSO for Hyperparameter Optimization of Convolutional Neural Network. -- Swarm Optimization Algorithms. -- A GPU Implementation of Multi-Guiding Spark Fireworks Algorithm for Efficient Black-Box Neural Network Optimization. -- TDRSolver: Confidentiality-Preserving Repair of Inconsistent Data in Temporal Knowledge Graphs Using Ant Colony Optimization. -- Cuckoo Search |

Algorithm for Chaos Control of Two-Dimensional Chaotic Maps. -- Population Initialization of Genetic Algorithms Based on Chaotic Mapping: Diversity Research and Boundary Effect Optimization. -- Wild Hounds Optimization Algorithm: A Novel Population-based Meta-heuristic for Function Optimization. -- A Weighted Binary String Benchmark to Assess the Efficiency of Stochastic Search Processes. -- Enhancing Competitive Swarm Optimization through Time-Adaptive Selection between Adjacency-Guided and Random Strategies. -- Quantum-Enhanced Harris Hawks Optimization: A Next-Generation Metaheuristic. -- Digital Memcomputing with Frog Jumps. -- Swarm of Large Language Models. -- Multi-Scale Swarm of Large Language Models for Python Code Generation. -- SwarmChat: An LLM-Based, Context-Aware Multimodal Interaction System for Robotic Swarms. -- MS-RL-CoT: Multi-Source Feedback for Medical LLMs. -- Extending Pre-trained ASR Models to Cross-modal and Cross-lingual Speech-Text Retrieval. -- Performance Evaluation of Pretrained Convolutional Neural Networks for Diabetic Macular Edema Diagnosis in Retinal Fundus Imaging. -- Agent and Multi-agents. -- Agent: A New Paradigm for Fundamental Units of the Universe. -- The Society of HiveMind: Multi-Agent Optimization of Foundation Model Swarms to Unlock the Potential of Collective Intelligence. -- Quasi-consensus of heterogeneous multi-agent systems with time delay via aperiodically intermittent adaptive control. -- ME-RAG: Multiagent Ecclesia for Retrieval Augmented Generation. -- Prescribed Performance Cooperative Guidance for Multi-vehicle Against Maneuvering Target. -- Vehicle Routing. -- Vehicle Routing for Perishable Food with Freshness Preservation: A Heuristic-Enhanced NSGA-II. -- An Improved Hybrid Ant Colony Optimization for Vehicle Routing Problem with Time Windows. -- A Novel Path Planning Method for Underactuated AUV Docking Based on B´ezier Curve and RP-PSO. -- Shipping Time Optimization for Vehicle Rout-ing Problem in Logistic Delivery Industry via Swarm Intelligence. -- A robust region-based controller for an underwater vehicle-manipulator system. -- Thermal-Aware CBS for Multi-AGV Path Planning in Semiconductor Intelligent Warehousing.

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.