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Soggetti	Artificial intelligence Computer networks Computers, Special purpose Computer systems Computer science Computer science - Mathematics Artificial Intelligence Computer Communication Networks Special Purpose and Application-Based Systems Computer System Implementation Theory of Computation Mathematics of Computing
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Nota di contenuto	-- Evolutionary Computation & Swarm Intelligence. -- Collaborative Scheduling of Multi-cloud Distributed Multi-cloud Tasks based on Evolutionary Multi-tasking Algorithm. -- Transfer Learning based Evolutionary Multi-Task Optimization. -- A Surrogate-based Optimization Method for Solving Economic Emission Dispatch Problems with Green Certificate Trading and Wind Power. -- MODMOA: A Novel Multi-Objective Optimization Algorithm for Unmanned Aerial Vehicle Path Planning. -- Decomposed Multi-objective Method Based on Q-

learning for Solving Multi-objective Combinatorial Optimization. -- Binary Multi-Objective Hybrid Equilibrium Optimizer Algorithm for Microarray Data. -- Difference Vector Angle Dominance with an Angle Threshold for Expensive Multi-objective Optimization. -- A Non-Uniform Clustering Based Evolutionary Algorithm for Solving Large-Scale Sparse Multi-[Objective Optimization. -- An Improved MOEA/D with Pareto Frontier Individual Selection Based on Weight Vector Angles. -- A Two-operator Hybrid DE for Global Numerical Optimization. -- Reinforcement Learning-based Differential Evolution Algorithm with Levy Flight. -- Hierarchical Competitive Differential Evolution for Global Optimization. -- A Hybrid Response Strategy for Dynamic Constrained Multi-objective Optimization. -- An Adaptive Knowledge Transfer Strategy for Evolutionary Dynamic Multi-objective Optimization. -- Multiobjective Biological Survival Optimizer with Application in Engineering Problems. -- Dynamic Constrained Robust Optimization Over Time for Operational Indices of Pre-Oxidation Process. -- Comparison of CLPSO, ECLPSO and ACLPSO on CEC2013 Multimodal Benchmark Functions. -- A Non Dominant Sorting Algorithm with Dual Population Dynamic Collaboration. -- Dynamic Constrained Multi-Objective Operation Optimization of Blast Furnace Based on Evolutionary Algorithm. -- HGADC: Hierarchical Genetic Algorithm with Density-Based Clustering for TSP. -- Transformer Surrogate Genetic Programming for Dynamic Container Port Truck Dispatching. -- Membrane Computing & DNA Computing. -- Design and Realization of Encoders Based on Switching Circuit. -- GSA-inspired Computational Nanobiosensing for Cancer Detection. -- Text Encryption Scheme Based on Chaotic Map and DNA Strand Displacement. -- Numerical P systems with thresholds and Petri nets. -- An efficient graph theoretic algorithm for channel routing in VLSI design with given constraint graph. -- Extremal Values of Generalized Somber Index in Chemical Graphs. -- Study on the Genetic Links between Type 2 Diabetes Mellitus and Glioma by Bioinformatics. -- An investigation into the use of DNA strand displacement reaction networks for subset sum problem solutions. -- Convolutional Codes Based Index-Free Coding Strategy for High-Density DNA Storage.

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.