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Titolo	Artificial Evolution : 15th International Conference, Évolution Artificielle, EA 2022, Exeter, UK, October 31 – November 2, 2022, Revised Selected Papers // edited by Pierrick Legrand, Arnaud Liefvooghe, Edward Keedwell, Julien Lepagnot, Lhassane Idoumghar, Nicolas Monmarché, Evelyne Lutton
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Collana	Lecture Notes in Computer Science, , 1611-3349 ; ; 14091
Disciplina	005.432
Soggetti	Artificial intelligence Algorithms Numerical analysis Computer networks Computer engineering Artificial Intelligence Numerical Analysis Computer Communication Networks Computer Engineering and Networks
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Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	On the Active Use of an ND-Tree-Based Archive for Multi-Objective Optimisation -- HyTEA: Hybrid Tree Evolutionary Algorithm -- A Game Theoretic Decision Tree for Binary Classification -- Evaluating a New Genetic Algorithm for Automated Machine Learning in Positive-Unlabelled Learning -- Neural Network-based Virtual Analog Modeling -- Defining a Quality Measure Within Crossover: An Electric Bus Scheduling Case Study -- Maximizing the Number of Satisfied Charging Demands in Electric Vehicle Charging Scheduling Problem -- Fine-Grained Cooperative Coevolution in a Single Population: Between Evolution and Swarm Intelligence -- One-Class Ant-Miner: Selection of Majority Class Rules for Binary Rule-based Classification -- Towards a Many-Objective Optimiser for University Course Timetabling --

Empirical Investigation of MOEAs for Multi-objective Design of Experiments -- Evolutionary Continuous Optimization of Hybrid Gene Regulatory Networks -- Designing Attention based Convolutional Neural Network (CNN) Architectures for Medical Image Classification using Genetic Algorithm based on Variable Length-encoding Scheme -- A Multi-objective 3D Offline UAV Path Planning Problem with Variable Flying Altitude -- An Elitist Non-dominated Heuristic Resolution for the Dynamic Asset Protection Problem.

Sommario/riassunto

This book constitutes the refereed post-conference proceedings of the 15th International Conference, Évolution Artificielle, EA 2022, held in Exeter, UK, during October 31–November 2, 2022. The 15 full papers were carefully reviewed and selected from 18 submissions. The papers cover a wide range of topics in the field of artificial evolution, including, but not limited to: evolutionary computation, evolutionary optimization, coevolution, artificial life, population dynamics, theory, algorithmic and modeling, implementations.
