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	Disciplina	519.3 006.31
	Soggetti	Numerical analysis Computer science - Mathematics Mathematical statistics Computer science Artificial intelligence Social sciences - Data processing Computers Numerical Analysis Probability and Statistics in Computer Science Theory of Computation Artificial Intelligence Computer Application in Social and Behavioral Sciences Computing Milieux Aprenentatge automàtic Optimització matemàtica Processament de dades Congressos Llibres electrònics
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Nota di contenuto	Invited Papers -- Optimal Scheduling of the Leaves of a Tree and the SVO Frequencies of Languages -- From Design of Experiments to Combinatorics of Disasters: A Conceptual Framework for Disaster Exercises -- Separating two polyhedra utilizing alternative theorems and penalty function -- Contributed Papers. -A Composite Index Method for Optimization Benchmarking -- Optimal Energy Management of Microgrid Using Multi-objective Optimisation Approach -- A Stochastic Alternating Balance k-Means Algorithm for Fair Clustering -- Binary Black Widow Optimization Algorithm for Feature Selection Problems -- Learning to Solve a Stochastic Orienteering Problem with Time Windows -- ML-based approach for accelerating global search algorithm for solving multicriteria problems -- The Skewed Kruskal algorithm -- Bounds for sparse solutions of K-SVCR multi-class classification model -- Integer Linear Programming in Solving an Optimization Problem at the Mixing Department of the Metallurgical Production -- Realtime Gray-Box Algorithm Configuration -- Dynamic urban solid waste management system for smart cities -- Single MCMC Chain Parallelisation on Decision Trees -- Single MCMC Chain Parallelisation on Decision Trees -- Competitive supply allocation in a distribution network under overproduction -- Safe-exploration of control policies from safe-experience via Gaussian Processes -- Bayesian Optimization in Wasserstein Spaces -- Network Vulnerability Analysis in Wasserstein Spaces -- BERT Self-Learning Approach with Limited Labels for Document Classification -- Autonomous Learning Optimization for Deep Learning -- Optimizing Data Augmentation Policy through Random Unidimensional Search -- Evaluating Student Behaviour on the MathE Platform - Clustering Algorithms Approaches -- Unsupervised Training for Neural TSP Solver -- Comparing surrogate models for tuning optimization algorithms -- Search and Score-based Waterfall Auction Optimization -- Survey on KNN Methods in Data Science -- Constrained Shortest Path and Hierarchical Structures -- Investigation of Graph Neural Networks for Instance Segmentation of Industrial Point Cloud Data -- Fitness landscape ruggedness impact on PSO in dealing with three variants of the travelling salesman problem -- A Multi-UAVs' Provider Model for the provision of 5G Service Chains: a game theoretic approach -- Metabolic Syndrome Risk Forecasting on Elderly with ML Techniques -- Airport Digital Twins for Resilient Disaster Management Response -- Strategies for Surviving Aggressive Multiparty Repeated Standoffs -- A Hybridization of GRASP and UTASTAR for Solving the Vehicle Routing Problem with Pickups and Deliveries and 3D Loading Constraints -- Packing hypertrees and the k-cut problem in Hypergraphs -- Maximizing the Eigenvalue-Gap and Promoting Sparsity ofDoubly Stochastic Matrices with PSO -- Value of Information in the Mean-Square Case and its Application to the Analysis of Financial Time-Series Forecast.
Sommario/riassunto	This book constitutes the refereed proceedings of the 16th International Conference on Learning and Intelligent Optimization, LION 16, which took place in Milos Island, Greece, in June 2022. The 36 full papers and 3 short papers presented in this volume were carefully reviewed and selected from 60 submissions. LION deals with automatic solver configuration, parallel methods, intelligent optimization, nature-inspired algorithms, hard combinatorial optimization problems, DC learning, computational intelligence, and others. The contributions were organized in topical sections as follows: Invited Papers; Contributed Papers.