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Collana	Communications in Computer and Information Science, , 1865-0937 ; ; 1145
Disciplina	519.3
Soggetti	Computer science - Mathematics Artificial intelligence Data structures (Computer science) Information theory Algorithms Computer engineering Computer networks Application software Mathematical Applications in Computer Science Artificial Intelligence Data Structures and Information Theory Computer Engineering and Networks Computer and Information Systems Applications
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Includes index.
Nota di contenuto	Efficient Algorithms for the Routing Open Shop with Unrelated Travel Times on Cacti -- Local Strong Convexity in Hilbert Space -- Semidefinite Relaxation and Sign-Definiteness of Quadratic Forms on the Cone -- Distance-Constrained Line Routing Problem -- Synthesis, Analysis and Parameters Optimization Problems for Multidimensional Mathematical Models of Interconnected Populations Dynamics --

Lipschitz Continuity of the Optimal Solution of the Inmal Convolution Problem and Subdifferential Calculus -- Polynomial-Time Solvability of One Optimization Problem Induced by Processing and Analyzing Quasiperiodic ECG and PPG Signals -- Equity-Linked Notes Portfolio Optimization -- On Optimization Problem Arising in Computer Simulation of Crystal Structures -- On the Complexity of Some Quadratic Euclidean Partition Problems into Balanced Clusters -- An Approximate Solution of a GNSS Satellite Selection Problem using Semidenite Programming -- Dynamic Marketing Model: the Case of Piece-Wise Constant Pricing -- Preconditioned Subspace Descent Methods for the Solution of Nonlinear Systems of Equations -- Comparison of Direct and Indirect Approaches for Numerical Solution of the Optimal Control Problem by Evolutionary Methods -- On PTAS for the Geometric Maximum Connected k-Factor Problem -- Generalization of Controls Bimodality Property of the Optimal Exploitation Problem for Ecological Population with a Binary Structure -- On a Global Search in D.C. Optimization Problems -- P-regularity Theory and Nonlinear Optimization Problems -- Optimization of Kernel Estimators of Probability Densities -- Golden Rule Saving Rate for an Endogenous Production Function -- Computational Methods for the Smoothed Version of Stable Dynamic Model -- Dual Multiplicative-Barrier Methods for Linear Second-Order Cone Programming -- A Problem of Scheduling Operations at a Locomotive Maintenance Depot -- An Experimental Study of Univariate Global Optimization Algorithms for Finding the Shape Parameter in Radial Basis Functions -- Time-Optimal Control Problem with State Constraints in a Time-Periodic Flow Field -- The generalized ellipsoid method and its implementation -- Numerical method for solving the problem of optimal control by system ODE of a block structure -- A Graph-Theoretic Approach to Multiobjective Permutation-Based Optimization -- A Smoothing Lagrange Multiplier Method for Solving the Quasi-variational Signorini's Inequality -- Polynomial Capacity Guarantees PTAS for the Euclidean Capacitated Vehicle Routing Problem Even for Non-uniform Non-splittable Demand -- New Version of Mirror Prox for Variational Inequalities with Adaptation to Inexactness -- Computational Experience and Challenges with the Dual Epi-Projection Algorithms for Non-Smooth Optimization -- A Criterion of Optimality of Some Parallelization Scheme for Backtrack Search Problem in Binary Trees -- Well Posedness of the Nearest Points Problem for Two Sets in Asymmetric Seminormed Spaces -- Two Optimization Problems for a Material Point Moving along a Straight Line in the Presence of Friction and Limitation on the Velocity.

Sommario/riassunto

This book constitutes the refereed proceedings of the 10th International Conference on Optimization and Applications, OPTIMA 2019, held in Petrovac, Montenegro, in September-October 2019. The 35 revised full papers presented were carefully reviewed and selected from 117 submissions. The papers cover such topics as optimization, operations research, optimal control, game theory, and their numerous applications in practical problems of operations research, data analysis, and software development.
