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Titolo	Optimization, Control, and Applications in the Information Age : In Honor of Panos M. Pardalos's 60th Birthday // edited by Athanasios Migdalas, Athanasia Karakitsiou
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Soggetti	Calculus of variations Operations research Decision making Mathematical models Probabilities Calculus of Variations and Optimal Control; Optimization Operations Research/Decision Theory Mathematical Modeling and Industrial Mathematics Probability Theory and Stochastic Processes
Lingua di pubblicazione	Inglese
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Livello bibliografico	Monografia
Note generali	Description based upon print version of record.
Nota di bibliografia	Includes bibliographical references at the end of each chapters.
Nota di contenuto	Panos M. Pardalos: A Brief Biography (R. Bakker) -- Modular Lipschitzian and Contractive Maps (V. Chistyakov) -- A Taxonomy for the Flexible Job Shop Scheduling Problem (D. Cinar, Y. Topcu, J. Oliveira) -- Sensitivity analysis of welfare, equity, and acceptability level of transport policies (R. Connors, M. Patriksson, C. Rydergren, A. Sumalee, D. Watling) -- Calibration in survey sampling as an optimization problem (G. Davies, J. Gillard, A. Zhigljavsky) -- On the Sensitivity of Least Squares Data Fitting by Nonnegative Second Divided Differences (I. Demetriou) -- Modeling and solving vehicle routing problems with many available vehicle types (S. Barman, P. Lindroth, A. Strömberg) -- A Genetic Algorithm for Scheduling Alternative Tasks subject to Technical Failure (D. Fontes, J. Gonçalves) -- Discrete competitive facility location: Modeling and optimization approaches (A.

Karakitsiou) -- On Nash Equilibria in Stochastic Positional Games with Average Payoffs (D. Lozovanu, S. Pickl) -- Adaptive Tuning of All Parameters in a Multi-Swarm Particle Swarm Optimization Algorithm. An Application to the Probabilistic Traveling Salesman Problem (Y. Marinakis, M. Marinaki, A. Migdalas) -- Eigendecomposition of the Mean-Variance Portfolio Optimization Model (F. Mayambala, Elina Rönnberg, T. Larsson) -- Three aspects of the research impact by a scientist: measurement methods and an empirical evaluation (B. Mirkin, M. Orlov) -- SVM Classification of Uncertain Data Using Robust Multi-Kernel Methods (R. Pant, T. Trafalis) -- Multi-objective Optimization and Multi-attribute Decision Making for a Novel Batch Scheduling Problem Based on Mould Capabilities (J. Pei, A. Migdalas, W. Fan, X. Liu) -- A Time-Indexed Generalized Vehicle Routing Model and Stabilized Column Generation for Military Aircraft Mission Planning (N. Quttineh, T. Larsson, J. Van den Bergh, J. Beliën) -- On Deterministic Diagonal Methods for Solving Global Optimization Problems with Lipschitz Gradients (Y. Sergeyev, D. Kvasov) -- Optimization of Design Parameters for Active Control of Smart Piezoelectric Structures (G. Stavroulakis, G. Foutsitzi, C. Gogos) -- Stable EEG Features (V. Stefanidis, G. Anogiannakis, A. Evangelou and M. Poulos) -- Deriving Pandemic Disease Mitigation Strategies by Mining Social Contact Networks (M. Ventresca, A. Szatan, B. Say, D. Aleman) -- On an Asymptotic Property of a Simplicial Statistical Model of Global Optimization (A. Žilinskas, G. Gimbutien) -- Advanced Statistical Tools for Modelling of Composition and Processing Parameters for Alloy Development (G. Zrazhevsky, A. Golodnikov, S. Uryasev, A. Zrazhevsky).

Sommario/riassunto

Recent developments in theory, algorithms, and applications in optimization and control are discussed in this proceedings, based on selected talks from the 'Optimization, Control, and Applications in the Information Age' conference, organized in honor of Panos Pardalos's 60th birthday. This volume contains numerous applications to optimal decision making in energy production and fuel management, data mining, logistics, supply chain management, market network analysis, risk analysis, and community network analysis. In addition, a short biography is included describing Dr. Pardalos's path from a shepherd village on the high mountains of Thessaly to academic success. Due to the wide range of topics such as global optimization, combinatorial optimization, game theory, stochastics and programming contained in this publication, scientists, researchers, and students in optimization, operations research, analytics, mathematics and computer science will be interested in this volume.
