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Soggetti	Computer science - Mathematics Artificial intelligence Data structures (Computer science) Information theory Mathematical Applications in Computer Science Artificial Intelligence Data Structures and Information Theory Mathematics of Computing
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Nota di contenuto	Mathematical Programming -- Hybrid Method for Linear Programming Hybrid Method for Linear Programming -- An Equilibrium Dynamic Traffic Assignment Model with Linear Programming Formulation -- Singular optimization problems and p-factor approach for their analysis -- On the Application of Composite Penalty Functions Obtained by "Gluing" of External Penalties with Barrier Ones in Linear Programming -- Nesterov's Method of Dichotomy via Order Oracle: The Problem of Optimizing a Two-Variable Function on a Square -- Piecewise Linear Approximations in the Balanced Identification of Models with Differential Equations -- Extragradient Sliding for Composite Non-Monotone Variational Inequalities -- Global Optimization -- A Three-Stage Numerical Approach to the Study of Extra-Large Atomic-Molecular Clusters -- Comparative Efficiency of

Machine Learning Models for Enhancing Algorithms in Solving Multiextremal Multicriteria Problems -- Automated Multi-Criteria Optimization of Parallel Robots -- Optimal Selection of Feedback Coefficients in the Problem of Stabilizing a Chain of Three Integrators -- Optimal Control -- On Some Sufficient Condition for Quadraticity of a Degenerate Optimization Problem with Inequality Constraints -- A Maximum Principle for a State-Constrained Optimal Control Problem Whose Data Is Measurable in the Time-variable -- Game Theory and Mathematical Economics -- Nash and Stackelberg Equilibria in Differential Games with Functionals in the Form of the Minimum Antagonistic and Partial Criteria -- A Model of Investment Policy of Firms -- Optimization in Economics and Finance -- The Ramsey's Conjecture for the Model with Non-Liquid Capital -- A Nonlinear Input-Output-Based Model for Medium-Term Macroeconomic Risks Analysis for a Restructuring Economy with Limited Capacities -- Optimal Timing of Investment and Debt Payment in Production Expansion with the Use of External Financing -- Identification of an Endogenous Production Function for the U.S. Economy -- An Ecological and Economic Model of Carbon Neutrality -- Applications -- Optimal Control Problem in Treatment Strategies for Breast Tumors -- The Use of Both Temperature Field and Heat Fluxes to Identify the Thermal Conductivity and Volumetric Heat Capacity -- Maximising the Discounted Accumulated Income in the Model with Two Gas Fields -- Modeling and Optimization of Controlled Conveyor Systems Using Intelligent Controllers.

Sommario/riassunto

This book constitutes the refereed proceedings of the 15th International Conference on Optimization and Applications, OPTIMA 2024, held in Petrovac, Montenegro, during September 16–20, 2024. The 24 full papers presented in this volume were carefully reviewed and selected from 60 submissions. They are grouped into the following topics: Mathematical Programming; Global Optimization; Optimal Control; Game Theory and Mathematical Economics; Optimization in Economics and Finance; and Applications.
