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	Nota di contenuto	Mathematical Programming -- Decomposition Method for Solving the Quadratic Programming Problem in the Aircraft Assembly Modeling -- Degenerate Equality Constrained Optimization Problems and P-Regularity Theory -- The Relative Formulation of the Quadratic Programming Problem in the Aircraft Assembly Modeling -- Global Optimization -- An Accelerated Algorithm for Finding Efficient Solutions in Multiobjective Problems with Black-Box Multiextremal Criteria -- The Best Ellipsoidal Estimates of Invariant Sets for a Third-Order Switched Affine System -- Discrete and Combinatorial Optimization -- Prize-Collecting Asymmetric Traveling Salesman Problem Admits Polynomial Time Approximation within a Constant Ratio -- Optimal Control -- Control of the Motion of Heating Sources of a Rod with Non-Linear Feedback -- Terminal Control of Multi-Agent System -- Qualitative Analysis of an Infinite Horizon Optimal Control Problem of a Shallow Lake -- Optimization and Data Analysis -- Some Adaptive First-Order Methods for Variational Inequalities with Relatively Strongly Monotone Operators and Generalized Smoothness -- Compression and Data Similarity: Combination of Two Techniques for Communication-Efficient Solving of Distributed Variational Inequalities -- Game Theory and Mathematical Economics -- Numerical Analysis of

the Model of Optimal Savings and Borrowing -- Nash and Stackelberg Equilibria in Games with Pay-Off Functions Constructed by Minimum Convolutions of Antagonistic and Private Criteria -- Fluctuations of Aggregated Production Capacity Near Balanced Growth Path -- Applications -- On the Simultaneous Identification of the Volumetric Heat Capacity and the Thermal Conductivity of a Substance -- Application of the Interpolation Approach for Approximating Single-Machine Scheduling Problem with an Unknown Objective Function -- Robot Workspace Approximation with Modified Bicenetred Krawczyk Method.

Sommario/riassunto	This book constitutes the refereed proceedings of the 13th International Conference on Optimization and Applications, OPTIMA 2022, held in Petrovac, Montenegro, during September 26–30, 2022. The 17 full papers and presented were carefully reviewed and selected from 43 submissions. They were organized into the following as follows: mathematical programming; global optimization; discrete and combinatorial optimization; optimal control; optimization and data analysis; and game theory and mathematical economics.