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Nota di contenuto	Mathematical Programming -- Adaptive Variants of Frank-Wolfe Method with Relative Inexact Gradient Information -- Construction of a self-concordant barrier for a quasi-polyhedral cone with infinitely many

faces -- Adaptive Method for Saddle Point Problems with a Generalization of Smoothness Property -- On the Study of Some Sufficient Conditions for the Existence of Regular Zeros of Quadratic Mappings -- STOCHASTIC GRADIENT DESCENT METHODS WITH STEP ADAPTATION -- Numerical analysis of the convex relaxation of the barrier parameter functional of self-concordant barriers -- Optimal Control -- On a Problem of Synthesis of Control of Boundary Condition and Motion of Measurement Points for Damping Oscillations of a String -- The Problem of Synthesis of Control of Movement of State Sensors and Power of Heating Sources of the Rod with Optimization of Their Placement -- On the Optimality of the Guaranteeing Solution in the Time-Optimization Problem for Linear Discrete-Time Systems with Integral Control Constraints -- Discrete H2-Optimal Synthesis Problem with Nonunique Solution -- Scattering-based stabilization technique for QSR-dissipative teleoperators with time-varying communication delays -- Game Theory -- Time-Inconsistency of Cooperative Networks in Differential Games -- Complete-to-Sparse: A Novel Graph Construction Strategy to Increase Efficiency of ShapG -- Two-Stage Game Model of Opinion Dynamics -- Genetic Algorithm for Repeated Prisoner's Dilemma -- Operations Research and Applications -- BIGLDM: Innovative Forecasting of Infection Patterns with Bidirectional Generalized Least Deviation Models -- Closest target on the frontier of the free disposal hull -- Optimal trajectory for monitoring objects with obstacles -- An Improved Discrete Optimisation Procedure with comparison to Constraint Programming -- On a Bilevel Optimization Model of Electric Power Systems with a System Operator at the Upper Level -- Multivariate Selberg Probability Bound in Distributionally Robust Optimization with Statistical Applications -- MIP Models and Complexity Results for DAG Scheduling in the Cloud -- Machine Learning and Optimization -- Clustering-based Graph Neural Networks in a Weakly Supervised Regression Problem -- Heterogeneous graph neural networks for real-time flow assignment prediction -- A Nash Equilibrium Prediction for a Dual Market Economic System Using Machine Learning Methods -- Parameter optimization for restarted mixed precision iterative sparse solver -- Optimal collapsing levels in one-way ANOVA: agglomerative merging algorithms and mixed integer linear programming.

Sommario/riassunto

This book LNCS 15681 constitutes the refereed proceedings of the 24th International Conference on Mathematical Optimization Theory and Operations Research, MOTOR 2025, held in Novosibirsk, Russia, during July 7–11, 2025. The 27 full papers were carefully reviewed and selected from 72 submissions. The proceeding focus on Mathematical Programming; Optimal Control; Game Theory; Operations Research and Applications; Machine Learning and Optimization. .
