

1. Record Nr.	UNINA9910864195903321
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Titolo	Integer Programming and Combinatorial Optimization : 25th International Conference, IPCO 2024, Wroclaw, Poland, July 3–5, 2024, Proceedings // edited by Jens Vygen, Jarosaw Byrka
Pubbl/distr/stampa	Cham : , : Springer Nature Switzerland : , : Imprint : Springer, , 2024
ISBN	3-031-59835-0
Edizione	[1st ed. 2024.]
Descrizione fisica	1 online resource (474 pages)
Collana	Lecture Notes in Computer Science, , 1611-3349 ; ; 14679
Altri autori (Persone)	ByrkaJarosaw
Disciplina	40,151
Soggetti	Computer science - Mathematics Mathematics - Data processing Discrete mathematics Application software Mathematics of Computing Computational Mathematics and Numerical Analysis Discrete Mathematics in Computer Science Computer and Information Systems Applications
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di contenuto	Sparsity and integrality gap transference bounds for integer programs -- Separating k-Median from the Supplier Version -- A Better-Than-1.6-Approximation for Prize-Collecting TSP -- On Matrices over a Polynomial Ring with Restricted Subdeterminants -- A First Order Method for Linear Programming Parameterized by Circuit Imbalance -- Approximately Packing Dijoins via Nowhere-Zero Flows -- Capacitated Facility Location with Outliers and Uniform Facility Costs -- Integer Points in Arbitrary Convex Cones: The Case of the PSD and SOC Cones -- The Extension Complexity of Polytopes with Bounded Integral Slack Matrices -- Assortment Optimization with Visibility Constraints -- Adaptivity Gaps in Two-sided Assortment Optimization -- Two-Stage Stochastic Stable Matching -- Von Neumann-Morgenstern Stability and Internal Closedness in Matching Theory -- Fully-Dynamic Load Balancing -- Pairwise-Independent Contention Resolution -- An FPTAS for Connectivity Interdiction -- Tight Lower Bounds for Block-

Structured Integer Programs -- A Lower Bound for the Max Entropy Algorithm for TSP -- On the Number of Degenerate Simplex Pivots -- On the Partial Convexification of the Low-Rank Spectral Optimization: Rank Bounds and Algorithms -- On the Congruency-Constrained Matroid Base -- Online Combinatorial Assignment in Independence Systems -- Decomposing Probability Marginals Beyond Affine Requirements -- Polynomial Algorithms to Minimize $2/3$ -Submodular Functions -- A $4/3$ -Approximation for the Maximum Leaf Spanning Arborescence Problem in DAGs -- Extending the primal-dual 2-approximation algorithm beyond uncrossable set families -- Network Flow Problems with Electric Vehicles -- Lower Bounds on the Complexity of Mixed-Integer Programs for Stable Set and Knapsack -- Relaxation strength for multilinear optimization: McCormick strikes back -- Online Algorithms for Spectral Hypergraph Sparsification -- Fast Combinatorial Algorithms for Efficient Sortation -- A New Branching Rule for Range Minimization Problems -- Sensitivity analysis for mixed binary quadratic programming.

Sommario/riassunto

This book constitutes the refereed proceedings of the 25th International Conference on Integer Programming and Combinatorial Optimization, IPCO 2024, held in Wrocaw, Poland, during July 3–5, 2024. The 33 full papers presented were carefully reviewed and selected from 101 submissions. IPCO is under the auspices of the Mathematical Optimization Society, and it is an important forum for presenting present recent developments in theory, computation, and applications. The scope of IPCO is viewed in a broad sense, to include algorithmic and structural results in integer programming and combinatorial optimization as well as revealing computational studies and novel applications of discrete optimization to practical problems. .
