

1. Record Nr.	UNINA9910864197503321
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Titolo	Integration of Constraint Programming, Artificial Intelligence, and Operations Research : 21st International Conference, CPAIOR 2024, Uppsala, Sweden, May 28–31, 2024, Proceedings, Part II // edited by Bistra Dilkina
Pubbl/distr/stampa	Cham : , : Springer Nature Switzerland : , : Imprint : Springer, , 2024
ISBN	9783031605994 3031605993
Edizione	[1st ed. 2024.]
Descrizione fisica	1 online resource (332 pages)
Collana	Lecture Notes in Computer Science, , 1611-3349 ; ; 14743
Disciplina	40,151
Soggetti	Computer science - Mathematics Artificial intelligence Computer science Computer networks Mathematics of Computing Artificial Intelligence Theory of Computation Computer Communication Networks
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di contenuto	Core Boosting in SAT-Based Multi-Objective Optimization -- Fair Minimum Representation Clustering -- Proof Logging for the Circuit Constraint -- Probabilistic Lookahead Strong Branching via a Stochastic Abstract Branching Model -- Lookahead, Merge and Reduce for Compiling Relaxed Decision Diagrams for Optimization -- LEO: Learning Efficient Orderings for Multiobjective BDDs -- Minimizing the Cost of Leveraging Influencers in Social Networks: IP and CP Approaches -- Learning Deterministic Surrogates for Robust Convex QCQP -- Strategies for Compressing the Pareto Frontier: Application to Strategic Planning of Hydropower in the Amazon Basin -- Improving Metaheuristic Efficiency for Stochastic Optimization Problems by Sequential Predictive Sampling -- SMT-based Repair of Disjunctive Temporal Networks with Uncertainty: Strong and Weak Controllability

-- CaVE: A Cone-aligned Approach for Fast Predict-then-optimize with Binary Linear Programs -- A Constraint Programming Approach for Aircraft Disassembly Scheduling -- Optimization Over Trained Neural Networks: Taking a Relaxing Walk -- Learning From Scenarios for Repairable Stochastic Scheduling -- Explainable Algorithm Selection for the Capacitated Lot Sizing Problem -- Efficient Structured Perceptron for NP-hard Combinatorial Optimization Problems -- Robustness Verification in Neural Networks -- An Improved Neuro-Symbolic Architecture to Fine-Tune Generative AI Systems -- Bound Tightening using Rolling-Horizon Decomposition for Neural Network Verification -- Learning Heuristics for Combinatorial Optimization Problems on K-Partite Hypergraphs.

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## Sommario/riassunto

This book constitutes the proceedings of the 21st International Conference on the Integration of Constraint Programming, Artificial Intelligence, and Operations Research, CPAIOR 2024, held in Uppsala, Sweden, during May 28–31, 2024. The 33 full papers and the 9 short papers presented in the proceedings were carefully reviewed and selected from a total of 104 submissions. The content of the papers focus on new techniques or applications in the area and foster the integration of techniques from different fields dealing with large and complex problems. .

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