Integration of AI and OR Techniques in Constraint Programming for Combinatorial Optimization Problems



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Reviews

The book is great and fantastic. It is writter in straightforward words and phrases rather than difficult to understand. You wont really feel monotony at at any time of your respective time (that's what catalogues are for regarding should you question me). (Payton Miller)

INTEGRATION OF AI AND OR TECHNIQUES IN CONSTRAINT PROGRAMMING FOR COMBINATORIAL OPTIMIZATION PROBLEMS



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Condition: New. Publisher/Verlag: Springer, Berlin | 6th International Conference, CPAIOR 2009 Pittsburgh, PA, USA, May 27-31, 2009 Proceedings | This book constitutes the refereed proceedings of the 6th International Conference on Integration of AI and OR Techniques in Constraint Programming for Combinatorial Optimization Problems, CPAIOR 2009, held in Pittsburgh, PA, USA, in May 2009. The 20 revised full papers and 10 extended abstracts presented together with 2 invited talks were carefully reviewed and selected from 65 submissions. The papers describe current research in the fields of constraint programming, artificial intelligence, and operations research and present new techniques or new applications in combinatorial optimization, thus exploring ways of solving large-scale, practical optimization problems through integration and hybridization of the fields' different techniques. | Invited Talks.- Machine Learning Framework for Classification in Medicine and Biology.- G12 - Towards the Separation of Problem Modelling and Problem Solving.- Regular Papers.- Six Ways of Integrating Symmetries within Non-overlapping Constraints.-Throughput Constraint for Synchronous Data Flow Graphs.- A Shortest Path-Based Approach to the Multileaf Collimator Sequencing Problem.-Backdoors to Combinatorial Optimization: Feasibility and Optimality.- Solution Enumeration for Projected Boolean Search Problems.- k-Clustering Minimum Biclique Completion via a Hybrid CP and SDP Approach.- Optimal Interdiction of Unreactive Markovian Evaders.- Using Model Counting to Find Optimal Distinguishing Tests.- Reformulating Global Grammar Constraints.- IBM ILOG CP Optimizer for Detailed Scheduling Illustrated on Three Problems.- Open Constraints in a Boundable World.- Sequencing and Counting with the multicost-regular Constraint.- Bandwidth-Limited Optimal Deployment of Eventually-Serializable Data Services.- Tightening the Linear Relaxation of a Mixed Integer Nonlinear Program Using Constraint Programming.- The Polytope of Context-Free Grammar Constraints.- Determining the Number of Games Needed to Guarantee an NHL Playoff Spot.- Scalable Load Balancing in Nurse to Patient Assignment Problems.- Learning How to Propagate Using Random Probing.- DFS and the Traveling Tournament Problem.- Max Energy...

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