

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

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This book constitutes the refereed proceedings of the Third International Conference on Integration of AI and OR Techniques in Constraint Programming for Combinatorial Optimization Problems, CPAIOR 2006. The 20 revised full papers presented together with 3 invited talks address methodological and foundational issues from AI, OR, and algorithmics and present applications to the solution of combinatorial optimization problems in various fields via constraint programming.

Invited Talks.- Opt Art.- Planning for Mixed Discrete Continuous Domains.- Duality in Optimization and Constraint Satisfaction.- Technical Papers.- A Totally Unimodular Description of the Consistent Value Polytope for Binary Constraint Programming.- Undirected Forest Constraints.- Allocation, Scheduling and Voltage Scaling on Energy Aware MPSoCs.- The Range Constraint: Algorithms and Implementation.- On the Separability of Subproblems in Benders Decompositions.- A Hybrid Column Generation and Constraint Programming Optimizer for the Tail Assignment Problem.- The Power of Semidefinite Programming Relaxations for MAX-SAT.- Expected-Case Analysis for Delayed Filtering.- Plan B: Uncertainty/Time Trade-Offs for Linear and Integer Programming.- Progressive Solutions: A Simple but Efficient Dominance Rule for Practical RCPSp.- AND/OR Branch-and-Bound Search for Pure 0/1 Integer Linear Programming Problems.- The Timetable Constrained Distance Minimization Problem.- Conflict-Directed A* Search for Soft Constraints.- Event-Driven Probabilistic Constraint Programming.- Online Stochastic Reservation Systems.- Traveling Tournament Scheduling: A Systematic Evaluation of Simulated Annealing.- Open Constraints in a Closed World.- Conditional Lexicographic Orders in Constraint Satisfaction Problems.- An Efficient Hybrid Strategy for Temporal Planning.- Improved Algorithm for the Soft Global Cardinality Constraint.



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