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Nota di contenuto	Technical Papers Reduced Cost-Based Ranking for Generating Promising Subproblems Integrating Constraint and Integer Programming for the Orthogonal Latin Squares Problem On Optimal Correction of Inconsistent Linear Constraints Temporal Planning through Mixed Integer Programming: A Preliminary Report A New Multi-resource cumulatives Constraint with Negative Heights On the Sum Constraint: Relaxation and Applications Global Constraints for Lexicographic Orderings A Global Filtering Algorithm for Handling Systems of Quadratic Equations and Inequations Amplification of Search Performance through Randomization of Heuristics Computing the Envelope for Stepwise-Constant Resource Allocations Local Probing Applied to Scheduling A Hybrid Approach for SAT Recovering and Exploiting Structural Knowledge from CNF Formulas Towards a Symmetric Treatment of Satisfaction and Conflicts in Quantified Boolean Formula Evaluation Accelerating Random Walks Scaling and Probabilistic Smoothing: Efficient Dynamic Local Search for SAT Learning and Solving Soft Temporal Constraints: An Experimental Study Opportunistic Specialization in Russian Doll Search Range-Based Algorithm for Max-CSP Resolution Complexity of Random Constraints Constraint Satisfaction, Bounded Treewidth, and Finite-Variable Logics Determining the Number of Solutions to Binary CSP Instances Consistency Checking for

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Qualitative Spatial Reasoning with Cardinal Directions -- Open Constraint Satisfaction -- Beyond NP: Arc-Consistency for Quantified Constraints -- Secure Distributed Constraint Satisfaction: Reaching Agreement without Revealing Private Information -- A Dual Graph Translation of a Problem in 'Life' -- Groups and Constraints: Symmetry Breaking during Search -- Partial Symmetry Breaking -- Symmetry Breaking Revisited -- Breaking Row and Column Symmetries in Matrix Models -- Solving the Kirkman's Schoolgirl Problem in a Few Seconds -- Inferring Constraint Types in Constraint Programming -- Model-Based Programming: Controlling Embedded Systems by Reasoning About Hidden State -- The Adaptive Constraint Engine -- Indexical-Based Solver Learning -- Learning the Empirical Hardness of Optimization Problems: The Case of Combinatorial Auctions -- Restart Policies with Dependence among Runs: A Dynamic Programming Approach -- Innovative Application -- Visopt ShopFloor: On the Edge of Planning and Scheduling -- Constraint Programming Contribution to Benders Decomposition: A Case Study -- Modeling Camera Control with Constrained Hypertubes -- Robust and Parallel Solving of a Network Design Problem -- Connections Reservation with Rerouting for ATM Networks: A Hybrid Approach with Constraints -- Communication and Computation in Distributed CSP Algorithms -- Posters --Continuous First-Order Constraint Satisfaction with Equality and Disequality Constraints -- A Relaxation of the Cumulative Constraint --Improving GSAT Using 2SAT -- A Relational Constraint Solver for Model-Based Engineering -- Conflict-Based Repair Techniques for Solving Dynamic Scheduling Problems -- Scaling Properties of Pure Random Walk on Random 3-SAT -- Criticality and Parallelism in Structured SAT Instances -- Characterizing SAT Problems with the Row Convexity Property -- Interchangeability in Soft CSPs -- On Constraint Problems with Incomplete or Erroneous Data -- Heuristic Constraint Propagation -- An Arc-Consistency Algorithm for the Minimum Weight All Different Constraint -- Algebraic Properties of CSP Model Operators -- AC-3d an Efficient Arc-Consistency Algorithm with a Low Space-Complexity -- Doctoral Program -- Integrating Search Objects in Asynchronous Constraint Solving -- Distributed Constraint-Based Railway Simulation -- Symmetry Breaking in Peaceably Coexisting Armies of Queens -- Batch Processing with Sequence Dependent Setup Times -- Interactive Heuristic Search Algorithm -- On Constraint Problems with Incomplete or Erroneous Data -- Design of a New Metaheuristic for MAXSAT Problems -- Disjunctive and Continuous Constraint Satisfaction Problems -- Tuning Randomization in Backtrack Search SAT Algorithms -- Constraint Solving in Test-Data Generation -- Improving Cost Calculations for Global Constraints in Local Search -- A Modeling Framework for Constraints -- A Linear Programming Based Satisfiability Solver Using a New Horn-Driven Search Tree Design -- A Concurrent Constraint Programming Approach for Trajectory Determination of Autonomous Vehicles -- Using Constraint Propagation to Accelerate Column Generation in Aircraft Scheduling --Solving and Learning Soft Temporal Constraints; Ceteris Paribus Statements Represented as Soft Constraints Problems -- A Partially Solved Form for Heterogeneous Constraints in Disjunctive Normal Form -- Models of Injection Problems -- Partial Symmetry Breaking --Automatic Generation of Implied Clauses for SAT -- Bridging the Gap between SAT and CSP -- Reducing Symmetry in Matrix Models --Studying Interchangeability in Constraint Satisfaction Problems --Constraint Modeling in the Context of Academic Task Assignment --Design Tradeoffs for Autonomous Trading Agents.

This book constitutes the refereed proceedings of the 8th International

Conference on Principles and Practice of Constraint Programming, CP 2002, held in Ithaca, NY, USA in September 2002. The 38 revised full papers and 6 innovative application papers as well as the 14 short papers presented together with 25 abstracts from contributions to the doctoral program were carefully reviewed and selected from 146 submissions. All current issues in constraint processing are addressed, ranging from theoretical and foundational issues to application in various fields.