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Disciplina	005.1/16
Soggetti	Software engineering Numerical analysis Computer science—Mathematics Algorithms Artificial intelligence Operations research Decision making Software Engineering/Programming and Operating Systems Numeric Computing Discrete Mathematics in Computer Science Algorithm Analysis and Problem Complexity Artificial Intelligence Operations Research/Decision Theory
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Nota di bibliografia	Includes bibliographical references at the end of each chapters and index.
Nota di contenuto	Invited Paper -- Using MILP and CP for the Scheduling of Batch Chemical Processes -- Technical Papers -- SIMPL: A System for Integrating Optimization Techniques -- A New Exact Solution Algorithm for the Job Shop Problem with Sequence-Dependent Setup

Times -- Simple Rules for Low-Knowledge Algorithm Selection --
 Filtering Algorithms for the Same Constraint -- Cost Evaluation of Soft
 Global Constraints -- SAT-Based Branch & Bound and Optimal Control
 of Hybrid Dynamical Systems -- Solving the Petri Nets Reachability
 Problem Using the Logical Abstraction Technique and Mathematical
 Programming -- Generating Benders Cuts for a General Class of Integer
 Programming Problems -- A Constraint Programming Model for Tail
 Assignment -- Super Solutions in Constraint Programming -- Local
 Probing Applied to Network Routing -- Dynamic Heaviest Paths in
 DAGs with Arbitrary Edge Weights -- Filtering Methods for Symmetric
 Cardinality Constraint -- Arc-Consistency Filtering Algorithms for
 Logical Combinations of Constraints -- Combining Forces to Solve the
 Car Sequencing Problem -- Travelling in the World of Local Searches in
 the Space of Partial Assignments -- A Global Constraint for Nesting
 Problems -- Models and Symmetry Breaking for 'Peaceable Armies of
 Queens' -- A Global Constraint for Graph Isomorphism Problems --
 Echelon Stock Formulation of Arborescent Distribution Systems: An
 Application to the Wagner-Whitin Problem -- Scheduling Abstractions
 for Local Search -- $O(n \log n)$ Filtering Algorithms for Unary Resource
 Constraint -- Problem Decomposition for Traffic Diversions -- Short
 Papers -- LP Relaxations of Multiple all_different Predicates --
 Dispatching and Conflict-Free Routing of Automated Guided Vehicles:
 A Hybrid Approach Combining Constraint Programming and Mixed
 Integer Programming -- Making Choices Using Structure at the Instance
 Level within a Case Based Reasoning Framework -- The Challenge of
 Generating Spatially Balanced Scientific Experiment Designs -- Building
 Models through Formal Specification -- Stabilization Issues for
 Constraint Programming Based Column Generation -- A Hybrid Branch-
 And-Cut Algorithm for the One-Machine Scheduling Problem.

Sommario/riassunto

This volume contains the proceedings of the First International
 Conference on
 Integration of AI and OR Techniques in Constraint Programming for Combinatorial
 Optimisation Problems. This new conference follows the series of CP-
 AI-OR International Workshops on Integration of AI and OR Techniques
 in Constraint Programming for Combinatorial Optimisation Problems
 held in Ferrara (1999), Paderborn (2000), Ashford (2001), Le Croisic
 (2002), and Montreal (2003). The success of the previous workshops
 has demonstrated that CP-AI-OR is becoming a major forum for
 exchanging ideas and methodologies from both fields. The aim of this
 new conference is to bring together researchers from AI and OR, and to
 give them the opportunity to show how the integration of techniques
 from AI and OR can lead to interesting results on large scale and
 complex problems. The integration of techniques from Artificial
 Intelligence and Operations Research has provided effective algorithms
 for tackling complex and large scale combinatorial problems with significant
 improvements in terms of efficiency, scalability and optimality. The
 benefit of this integration has been shown in applications such as hoist
 scheduling, rostering, dynamic scheduling and vehicle routing. At the
 programming and modelling levels, most constraint languages embed
 OR techniques to reason about collections of constraints, so-called
 global constraints. Some languages also provide support for
 hybridization allowing the programmer to build new integrated
 algorithms. The resulting multi-paradigm
 programming framework combines the flexibility and modelling facilities
 of Constraint Programming with the special purpose and efficient
 methods from Operations Research.

2. Record Nr.	UNIORUON00396849
Autore	LYSIAS
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