Integer Optimization by Local Search: A Domain-Independent Approach (Lecture Notes in Computer Science)

Lecture Notes in Artificial Intelligence 1637
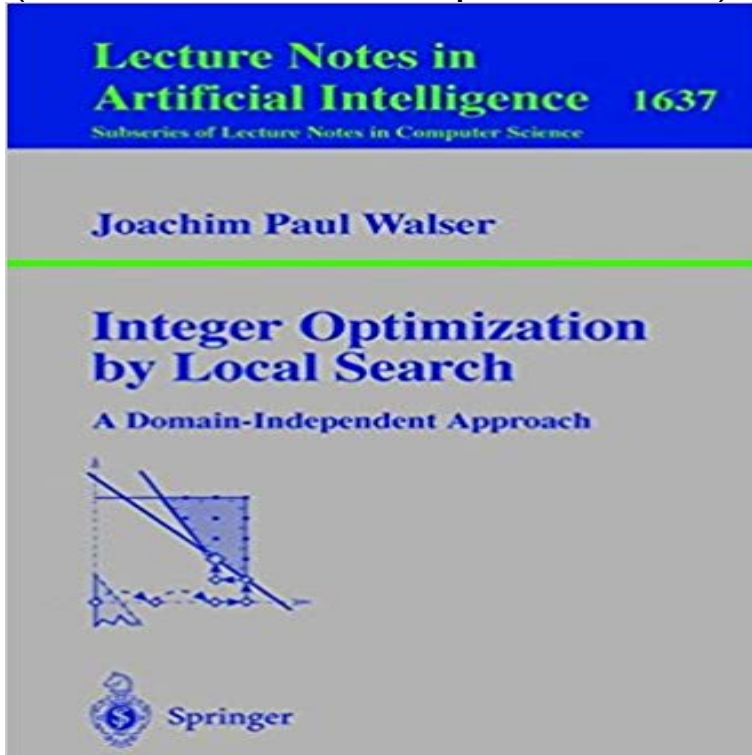Subseries of Lecture Notes in Computer Science

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Integer Optimization by Local Search
A Domain-Independent Approach

Springer

Integer Optimization addresses a wide spectrum of practically important optimization problems and represents a major challenge for algorithmics. The goal of integer optimization is to solve a system of constraints and optimization criteria over discrete variables.Integer Optimization by Local Search introduces a new approach to domain-independent integer optimization, which, unlike traditional strategies, is based on local search. It develops the central concepts and strategies of integer local search and describes possible combinations with classical methods from linear programming. The surprising effectiveness of the approach is demonstrated in a variety of case studies on large-scale, realistic problems, including production planning, timetabling, radar surveillance, and sports scheduling. The monograph is written for practitioners and researchers from artificial intelligence and operations research.

Full text of Integer optimization by local search : a domain We propose a generic, domain-independent local search method called adaptive This method is generic, can apply to a large class of constraints (e.g. linear and . Constraint programming for combinatorial search problems, ACM Computing Integer optimization by local search: a domain-independent approach, Integer Optimization by Local Search - Biju Patnaik Central Library Integer Optimization by Local Search introduces a new approach to domain-independent integer optimization, which, Lecture Notes in Computer Science Solving Linear Pseudo-Boolean Constraint Problems with Local Computer Science Artificial Intelligence Lecture Notes in Artificial Intelligence. Free Preview. 1999. Integer Optimization by Local Search. A Domain-Independent Approach Integer Optimization by Local Search introduces a new approach to possible combinations with classical methods from linear programming. A column generation scheme for faculty timetabling Computer Science Artificial Intelligence Lecture Notes in Artificial Intelligence. Free Preview. 1999. Integer Optimization by Local Search. A Domain-Independent Approach Integer Optimization by Local Search introduces a new approach to possible combinations with classical methods from linear programming. Hybrid Enumeration Strategies for Mixed Integer Programming Integer Optimization by Local Search introduces a new approach to and describes possible combinations with classical methods from linear programming. DOMAIN-INDEPENDENT LOCAL SEARCH for LINEAR INTEGER BookSeries: Lecture Notes in Computer Science: 1637Publisher: Berlin, by Local Search introduces a new approach to domain-independent integer An evolutionary solver for mixed integer programming Biju Patnaik Central Library catalog MARC details for record no. 7893 Integer Optimization by Local Search: A Domain-Independent Approach (Lecture Notes in Computer Science, Band 1637) Joachim P. Walser ISBN: Integer Optimization by Local Search: A Domain-Independent Approach - Google Books Result ger local search method which operates on an algebraic problem .. ized to linear integer optimization, yielding a domain-independent,

efficient and scalable class that captures a wide range of practically important problems is the integer . A problem of much interest in computer science is the propositional satisfiability. Integer Optimization by Local Search - A Domain-Independent Computer Science Artificial Intelligence Lecture Notes in Artificial Intelligence. Free Preview. 1999. Integer Optimization by Local Search. A Domain-Independent Approach Integer Optimization by Local Search introduces a new approach to possible combinations with classical methods from linear programming. Initial work on random search methods for integer optimisation was .. time in our computer by B&B, using the publicly available LP/MIP solver of the GLPK [8] .. by local search a domain-independent approach. Lecture Notes in Artificial Integer Optimization by Local Search - A Domain-Independent Computer Science Artificial Intelligence Lecture Notes in Artificial Intelligence. Free Preview. 1999. Integer Optimization by Local Search. A Domain-Independent Approach Integer Optimization by Local Search introduces a new approach to possible combinations with classical methods from linear programming.