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Disciplina	005.1/1
Soggetti	Mathematical optimization Numerical analysis Programming languages (Electronic computers) Combinatorics Operations research Management science Decision making Optimization Numeric Computing Programming Languages, Compilers, Interpreters Operations Research, Management Science 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 Lectures -- Global Optimization and Constraint Satisfaction: The Branch-and-Reduce Approach -- GlobSol: History, Composition, and Advice on Use -- Optimisation -- LaGO -- An Object Oriented Library for Solving MINLPs -- Solving Global Optimization Problems over Polynomials with GloptiPoly 2.1 -- Rigorous Error Bounds for the Optimal Value of Linear Programming Problems -- Minimal and Maximal Real Roots of Parametric Polynomials Using Interval Analysis

-- D.C. Programming for Solving a Class of Global Optimization Problems via Reformulation by Exact Penalty -- Symbolic-Interval Heuristic for Bound-Constrained Minimization -- A Global Constrained Optimization Algorithm for Engine Calibration -- Numerical Behavior of a Stabilized SQP Method for Degenerate NLP Problems -- Constraint Satisfaction -- A New Method for the Global Solution of Large Systems of Continuous Constraints -- Consistency Techniques for the Localization of a Satellite -- Computing Interval Parameter Bounds from Fallible Measurements Using Overdetermined (Tall) Systems of Nonlinear Equations -- Maintaining Global Hull Consistency with Local Search for Continuous CSPs -- Numerical Constraint Satisfaction Problems with Non-isolated Solutions -- Benchmarking -- Benchmarking Global Optimization and Constraint Satisfaction Codes -- Quality Assurance and Global Optimization.

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#### Sommario/riassunto

This book constitutes the thoroughly refereed post-proceedings of the First International Workshop on Global Constraints Optimization and Constraint Satisfaction, COCOS 2002, held in Valbonne-Sophia Antipolis, France in October 2002. The 15 revised full papers presented together with 2 invited papers were carefully selected during two rounds of reviewing and improvement. The papers address current issues in global optimization, mathematical programming, and constraint programming; they are grouped in topical sections on optimization, constraint satisfaction, and benchmarking.

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