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Collana	Lecture Notes in Computer Science, , 0302-9743 ; ; 923
Disciplina	005.1
Soggetti	Software engineering Artificial intelligence Computer programming Programming languages (Electronic computers) Computer logic Mathematical logic Software Engineering/Programming and Operating Systems Artificial Intelligence Programming Techniques Programming Languages, Compilers, Interpreters Logics and Meanings of Programs Mathematical Logic and Formal Languages
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di contenuto	A detailed algorithm testing guards over feature trees -- A generalized semantics for concurrent constraint languages and their abstract interpretation -- High-level constraints over finite domains -- Integrating constraints in an object-based knowledge representation system -- A CLP approach for examination planning -- The many paths to satisfaction -- Directed arc consistency preprocessing -- In search of exceptionally difficult constraint satisfaction problems -- Using bidirectionality to speed up arc-consistency processing -- Using metalevel constraint knowledge to reduce constraint checking -- Forward checking with backmarking -- Redundant hidden variables in

finite domain constraint problems -- Semantic properties of CHIP(FD)  
-- Combining hill climbing and forward checking for handling  
disjunctive constraints -- GA-easy and GA-hard constraint satisfaction  
problems.

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Sommario/riassunto

This volume contains 15 thoroughly refereed full research papers selected from the presentations given during two workshops on constraint processing; these workshops were held in conjunction with the International Congress on Computer Systems and Applied Mathematics (St. Petersburg, Russia, July 1993) and the European Conference on Artificial Intelligence (Amsterdam, The Netherlands, August 1994). This volume essentially contributes to integrating the different approaches to the young and very active field of constraint processing by offering papers from logic programming, knowledge representation, expert systems, theoretical computer science, operations research, and other fields. Among contributions are two surveys, by Podelski and van Roy and by Freuder.

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