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Disciplina	003.3
Soggetti	Architecture, Computer Software engineering Mathematical logic Artificial intelligence Computer programming Programming languages (Electronic computers) Computer System Implementation Software Engineering/Programming and Operating Systems Mathematical Logic and Foundations Artificial Intelligence Programming Techniques Programming Languages, Compilers, Interpreters
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Livello bibliografico	Monografia
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Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	Invited Speakers -- Representing Arithmetic Constraints with Finite Automata: An Overview -- Logic Databases on the Semantic Web: Challenges and Opportunities -- Conference Papers -- An Abductive Approach for Analysing Event-Based Requirements Specifications -- Trailing Analysis for HAL -- Access Control for Deductive Databases by Logic Programming -- Reasoning about Actions with CHRs and Finite Domain Constraints -- Using Hybrid Concurrent Constraint Programming to Model Dynamic Biological Systems -- Efficient Real-Time Model Checking Using Tabled Logic Programming and Constraints

-- Constraint-Based Infinite Model Checking and Tabulation for Stratified CLP -- A Model Theoretic Semantics for Multi-level Secure Deductive Databases -- Propagation Completeness of Reactive Constraints -- On Enabling the WAM with Region Support -- A Different Look at Garbage Collection for the WAM -- Copying Garbage Collection for the WAM: To Mark or Not to Mark? -- Logical Algorithms -- Logical Loops -- Learning in Logic with RichProlog -- Towards a Declarative Query and Transformation Language for XML and Semistructured Data: Simulation Unification -- A Proof-Theoretic Foundation for Tabled Higher-Order Logic Programming -- Proving the Equivalence of CLP Programs -- A Purely Logical Account of Sequentiality in Proof Search -- Disjunctive Explanations -- Reasoning with Infinite Stable Models II: Disjunctive Programs -- Computing Stable Models: Worst-Case Performance Estimates -- Towards Local Search for Answer Sets -- A Rewriting Method for Well-Founded Semantics with Explicit Negation -- Embedding Defeasible Logic into Logic Programs -- A Polynomial Translation of Logic Programs with Nested Expressions into Disjunctive Logic Programs: Preliminary Report -- Using Logic Programming to Detect Activities in Pervasive Healthcare -- Logic Programming for Software Engineering: A Second Chance -- A Logic-Based System for Application Integration -- Conference Papers -- The Limits of Horn Logic Programs -- Multi-adjoint Logic Programming: A Neural Net Approach -- Fuzzy Prolog: A Simple General Implementation Using CLP() -- Automated Analysis of CLP(FD) Program Execution Traces -- Schema-Based Transformations of Logic Programs in ?Prolog -- Non-uniform Hypothesis in Deductive Databases with Uncertainty -- Probabilistic Finite Domains: A Brief Overview -- Modelling Multi-agent Reactive Systems -- Integrating Planning, Action Execution, Knowledge Updates and Plan Modifications via Logic Programming -- A Logic Program Characterization of Domain Reduction Approximations in Finite Domain CSPs -- TCLP: Overloading, Subtyping and Parametric Polymorphism Made Practical for CLP -- Logical Grammars Based on Constraint Handling Rules -- Debugging in A-Prolog: A Logical Approach.

Sommario/riassunto

This book constitutes the refereed proceedings of the 18th International Conference on Logic Programming, ICLP 2002, held in Copenhagen, Denmark, in July/August 2002. The 29 revised full papers presented together with two invited contributions and 13 posters were carefully reviewed and selected from 82 submissions. All current aspects of logic programming and computational logic are addressed.