

1. Record Nr.	UNINA9910483900003321
Titolo	Logic Programming : 25th International Conference, ICLP 2009, Pasadena, CA, USA, July 14-17, 2009, Proceedings / / edited by Patricia M. Hill, David S. Warren
Pubbl/distr/stampa	Berlin, Heidelberg : , : Springer Berlin Heidelberg : , : Imprint : Springer, , 2009
ISBN	1-282-29791-0 9786612297915 3-642-02846-2
Edizione	[1st ed. 2009.]
Descrizione fisica	1 online resource (578 p.)
Collana	Programming and Software Engineering, , 2945-9168 ; ; 5649
Disciplina	005.115
Soggetti	Computer science Compilers (Computer programs) Computer programming Computer science - Mathematics Artificial intelligence Theory of Computation Compilers and Interpreters Programming Techniques Mathematics of Computing Artificial Intelligence Computer Science Logic and Foundations of Programming
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Description based upon print version of record.
Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	Invited Talks -- Experiences Using Logic Programming in Bioinformatics -- A Knowledge Base System Project for FO(.) -- From Plain Prolog to Logtalk Objects: Effective Code Encapsulation and Reuse -- Generative Modeling by PRISM -- Tutorials -- Enabling Serendipitous Search on the Web of Data Using Prolog -- Untangling Reverse Engineering with Logic and Abstraction -- (C)LP Tracing and Debugging -- Probabilistic Logic Learning - A Tutorial Abstract -- Best Papers -- Using Histograms to Better Answer Queries to Probabilistic

Logic Programs -- Non-discriminating Arguments and Their Uses --  
 Applications I -- Preprocessing for Optimization of Probabilistic-Logic  
 Models for Sequence Analysis -- Stabilization of Information Sharing  
 for Queries Answering in Multiagent Systems -- Logic Programming for  
 Multiagent Planning with Negotiation -- Implementation I -- Answer  
 Set Programming with Constraints Using Lazy Grounding -- Computing  
 Loops with at Most One External Support Rule for Disjunctive Logic  
 Programs -- Theory -- Modular Nonmonotonic Logic Programming  
 Revisited -- Merging Logic Programs under Answer Set Semantics --  
 Reducts of Propositional Theories, Satisfiability Relations, and  
 Generalizations of Semantics of Logic Programs -- Implementation II --  
 A Tabling Implementation Based on Variables with Multiple Bindings --  
 A Term-Based Global Trie for Tabled Logic Programs -- Analysis -- A  
 New Approach to Non-termination Analysis of Logic Programs --  
 Constraints I -- Constraint Answer Set Solving -- On the  
 Implementation of Weight Constraint Rules in Conflict-Driven ASP  
 Solvers -- System and Tool Descriptions -- A Language for Large  
 Ensembles of Independently Executing Nodes -- Integrating Software  
 Testing and Run-Time Checking in an Assertion Verification Framework  
 -- Debugging for Model Expansion -- Applications II -- Metabolic  
 Network Expansion with Answer Set Programming -- Answer Set  
 Programming for Single-Player Games in General Game Playing --  
 Finding Similar or Diverse Solutions in Answer Set Programming --  
 Implementation III -- Attributed Data for CHR Indexing -- User Defined  
 Indexing -- Constraints II -- Integration of Abductive Reasoning and  
 Constraint Optimization in SCIFF -- Encoding Table Constraints in CLP  
 (FD) Based on Pair-Wise AC -- Types for Secure Pattern Matching with  
 Local Knowledge in Universal Concurrent Constraint Programming --  
 Probability, Uncertainty -- Logic Programming with Defaults and  
 Argumentation Theories -- Qualified Computations in Functional Logic  
 Programming -- Logic Programs under Three-Valued ?ukasiewicz  
 Semantics -- Short Papers -- Execution Control for CHR -- Demand-  
 Driven Normalisation for ACD Term Rewriting -- One More Decidable  
 Class of Finitely Ground Programs -- Optimizing Compilation and  
 Computational Complexity of Constraint Handling Rules -- Proving  
 Termination by Invariance Relations -- Automating Termination Proofs  
 for CHR -- An Overview of FORCES: An INRIA Project on Declarative  
 Formalisms for Emergent Systems -- An Engine for Computing Well-  
 Founded Models -- Incremental Answer Completion in the SLG-WAM --  
 Doctoral Consortium -- Research Summary: Tabled Evaluation for  
 Transaction Logic Programs -- Research Summary: Logic Programming  
 for Massively Distributed Systems -- Research Summary: Extending  
 Elimination Algorithms for Functional Constraints to Solve Two Integer  
 Variables per Inequality -- Research Summary -- Research Summary:  
 Termination of CHR -- Research Summary: Intelligent Natural Language  
 Processing Techniques and Tools -- Stochastic Reasoning with Models  
 of Agent Behavior -- Research Summary -- Modular Action Language  
 -- Answering Questions from Natural Language Using A-Prolog --  
 Belief Logic Programming -- Logic-Statistic Models with Constraints for  
 Biological Sequence Analysis -- Fusion of Logic Programming and  
 Description Logics -- Research Summary: Non-termination Analysis of  
 Logic Programs -- Study of Random Logic Programs -- Locally  
 Distributed Predicates: A Programming Facility for Distributed State  
 Detection -- Capturing Fair Computations on Concurrent Constraint  
 Language -- Constraint Based Languages for Biological Reactions.

## Sommario/riassunto

This book constitutes the refereed proceedings of the 25th  
 International Conference on Logic Programming, ICLP 2009, held in  
 Pasadena, CA, USA, in July 2009. The 29 revised full papers together

with 9 short papers, 4 invited talks, 4 invited tutorials, and the abstracts of 18 doctoral consortium articles were carefully reviewed and selected from 69 initial submissions. The papers cover all issues of current research in logic programming, namely semantic foundations, formalisms, nonmonotonic reasoning, knowledge representation, compilation, memory management, virtual machines, parallelism, program analysis, program transformation, validation and verification, debugging, profiling, concurrency, objects, coordination, mobility, higher order, types, modes, programming techniques, abductive logic programming, answer set programming, constraint logic programming, inductive logic programming, alternative inference engines and mechanisms, deductive databases, data integration, software engineering, natural language, web tools, internet agents, artificial intelligence, bioinformatics.

---