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Descrizione fisica	1 online resource (335 p.)
Collana	Lecture Notes in Artificial Intelligence, , 2945-9141 ; ; 4483
Disciplina	005.115
Soggetti	Software engineering Artificial intelligence Machine theory Computer programming Software Engineering Artificial Intelligence Formal Languages and Automata Theory Programming Techniques
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	International conference proceedings.
Nota di bibliografia	Includes bibliographical references and author index.
Nota di contenuto	Invited Talks/Competition -- Logic Programming and Nonmonotonic Reasoning: From Theory to Systems and Applications -- Policy-Based Computing: From Systems and Applications to Theory -- The First Answer Set Programming System Competition -- Technical Papers -- cr-models: An Inference Engine for CR-Prolog -- Debugging ASP Programs by Means of ASP -- A Purely Model-Theoretic Semantics for Disjunctive Logic Programs with Negation -- Complexity of Default Logic on Generalized Conjunctive Queries -- A Preference-Based Framework for Updating Logic Programs -- Well-Founded Semantics and the Algebraic Theory of Non-monotone Inductive Definitions -- On the Complexity of Answer Set Programming with Aggregates --

Experimenting with Look-Back Heuristics for Hard ASP Programs --
Complexity of Rule Redundancy in Non-ground Answer-Set
Programming over Finite Domains -- Conflict-Driven Answer Set
Enumeration -- Head-Elementary-Set-Free Logic Programs -- A
Deductive System for PC(ID) -- Modularity Aspects of Disjunctive Stable
Models -- A Characterization of Strong Equivalence for Logic Programs
with Variables -- A Unified Semantics for Constraint Handling Rules in
Transaction Logic -- Conditional Planning with External Functions --
Logic Programs with Abstract Constraints: Representaton, Disjunction
and Complexities -- General Default Logic -- System Descriptions --
The System: Logic Programming Meets Outlier Detection -- clasp: A
Conflict-Driven Answer Set Solver -- GrinGo: A New Grounder for
Answer Set Programming -- Using Answer Sets to Solve Belief Change
Problems -- An Smodels System with Limited Lookahead Computation
-- Programming Applications in CIFF -- CPP: A Constraint Logic
Programming Based Planner with Preferences -- Posters -- An
Application of Defeasible Logic Programming to Decision Making in a
Robotic Environment -- On the Effectiveness of Looking Ahead in
Search for Answer Sets -- Enhancing ASP Systems for Planning with
Temporal Constraints -- Semantics for Possibilistic Disjunctive
Programs -- Modularity in smodels Programs.

Sommario/riassunto

This book constitutes the refereed proceedings of the 8th International Conference on Logic Programming and Nonmonotonic Reasoning, LPNMR 2005, held in Diamante, Italy in September 2005. The 25 revised full papers, 16 revised for the system and application tracks presented together with 3 invited papers were carefully reviewed and selected for presentation. Among the topics addressed are semantics of new and existing languages; relationships between formalisms; complexity and expressive power; LPNMR systems: development of inference algorithms and search heuristics, updates and other operations, uncertainty, and applications in planning, diagnosis, system descriptions, comparisons and evaluations; software engineering, decision making, and other domains; LPNMR languages: extensions by new logical connectives and new inference capabilities, applications in data integration and exchange systems, and methodology of representing knowledge.
