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Nota di contenuto	Session 1. Invited Talks -- SAT, SMT and Applications -- Logic-Based Modeling in Systems Biology -- Integrating Answer Set Programming and Satisfiability Modulo Theories -- Session 2. Technical Papers -- How Flexible Is Answer Set Programming? An Experiment in Formalizing Commonsense in ASP -- Splitting a CR-Prolog Program --

Contextual Argumentation in Ambient Intelligence -- Argumentation
Context Systems: A Framework for Abstract Group Argumentation -- A
Revised Concept of Safety for General Answer Set Programs -- Magic
Sets for the Bottom-Up Evaluation of Finitely Recursive Programs --
Relevance-Driven Evaluation of Modular Nonmonotonic Logic Programs
-- Complexity of the Stable Model Semantics for Queries on Incomplete
Databases -- Manifold Answer-Set Programs for Meta-reasoning -- A
Deductive System for FO(ID) Based on Least Fixpoint Logic --
Computing Stable Models via Reductions to Difference Logic -- A
Module-Based Framework for Multi-language Constraint Modeling --
Induction on Failure: Learning Connected Horn Theories -- On
Reductive Semantics of Aggregates in Answer Set Programming -- A
First Order Forward Chaining Approach for Answer Set Computing --
Knowledge Qualification through Argumentation -- Simple Random
Logic Programs -- Max-ASP: Maximum Satisfiability of Answer Set
Programs -- Belief Revision with Bounded Treewidth -- Casting Away
Disjunction and Negation under a Generalisation of Strong Equivalence
with Projection -- A Default Approach to Semantics of Logic Programs
with Constraint Atoms -- The Complexity of Circumscriptive Inference
in Post's Lattice -- Trichotomy Results on the Complexity of Reasoning
with Disjunctive Logic Programs -- Belief Logic Programming:
Uncertainty Reasoning with Correlation of Evidence -- Weight
Constraint Programs with Functions -- Session 3. Original Application
Papers -- Bridging the Gap between High-Level Reasoning and Low-
Level Control -- A General Approach to the Verification of
Cryptographic Protocols Using Answer Set Programming -- An ASP-
Based System for e-Tourism -- cc? on Stage: Generalised Uniform
Equivalence Testing for Verifying Student Assignment Solutions --
Session 4. Short Papers -- Translating Preferred Answer Set Programs
to Propositional Logic -- CR-Prolog as a Specification Language for
Constraint Satisfaction Problems -- Modeling Multi-agent Domains in
an Action Languages: An Empirical Study Using -- Computing
Weighted Solutions in Answer Set Programming -- Representing Multi-
agent Planning in CLP -- Prototypical Reasoning with Low Complexity
Description Logics: Preliminary Results -- AQL: A Query Language for
Action Domains Modelled Using Answer Set Programming -- Level
Mapping Induced Loop Formulas for Weight Constraint and Aggregate
Programs -- Layer Supported Models of Logic Programs -- Applying
ASP to UML Model Validation -- The Logical Consequence Role in
LPNMR: A Parameterized Computation Approach -- Social Default
Theories -- Session 5. System Descriptions -- nfn2dlp and nfnsolve:
Normal Form Nested Programs Compiler and Solver -- An ASP System
with Functions, Lists, and Sets -- A Simple Distributed Conflict-Driven
Answer Set Solver -- An Implementation of Belief Change Operations
Based on Probabilistic Conditional Logic -- On the Input Language of
ASP Grounder Gringo -- The Conflict-Driven Answer Set Solver clasp:
Progress Report -- System f2lp -- Computing Answer Sets of First-Order
Formulas -- The First Version of a New ASP Solver : ASPeRiX -- An ASP-
Based Data Integration System -- Gorgias-C: Extending Argumentation
with Constraint Solving -- Session 6. Summaries of Existing Successful
Applications Papers -- ANTON: Composing Logic and Logic Composing
-- Modelling Normative Frameworks Using Answer Set Programing --
Generating Optimal Code Using Answer Set Programming -- Logic
Programming Techniques in Protein Structure Determination:
Methodologies and Results -- PHYLO-ASP: Phylogenetic Systematics
with Answer Set Programming -- HAPLO-ASP: Haplotype Inference
Using Answer Set Programming -- Using Answer Set Programming to
Enhance Operating System Discovery -- Non-monotonic Reasoning

Supporting Wireless Sensor Networks for Intelligent Monitoring: The SINDI System -- Session 7. Short Application Papers -- Some DLV Applications for Knowledge Management -- Application of ASP for Automatic Synthesis of Flexible Multiprocessor Systems from Parallel Programs -- Optimal Multicore Scheduling: An Application of ASP Techniques -- Session 8 (Panel on Future Applications). Position Papers by the Panelists -- From Data Integration towards Knowledge Mediation -- Integrating Answer Set Modules into Agent Programs -- What Next for ASP? (A Not-Entirely-Well-Informed Opinion) -- Using Lightweight Inference to Solve Lightweight Problems -- Present and Future Challenges for ASP Systems -- ASP: The Future Is Bright -- Exploiting ASP in Real-World Applications: Main Strengths and Challenges -- Making Your Hands Dirty Inspires Your Brain! Or How to Switch ASP into Production Mode -- Towards an Embedded Approach to Declarative Problem Solving in ASP -- System Competition. Summary of System Competition -- The Second Answer Set Programming Competition.

Sommario/riassunto

This volume contains the proceedings of the 10th International Conference on Logic Programming and Nonmonotonic Reasoning (LPNMR 2009) held during 14-18 September in Potsdam. The special theme of LPNMR 2009 is Applications of Logic Programming and Nonmonotonic Reasoning in general and Answer Set Programming (ASP) in particular. LPNMR 2009 aims at providing a comprehensive survey of the state of the art of ASP/LPNMR Applications. LPNMR 2009 received 75 submissions, of which 55 were technical ones, 8 original applications, 9 system description ones and 3 short papers. Out of these 25 technical, 4 original applications, 10 system description, and 13 short papers were accepted.
