

Table of Contents

Answer Set Programming 2005

I Invited Talk

What is a Logic Program?	3
<i>Vladimir Lifschitz (Univ. of Texas at Austin, USA)</i>	

II Panels

Innovative Applications of ASP	7
<i>Gerhard Brewka (Univ. of Leipzig, Germany)</i>	
Building an Open Knowledge Library	8
<i>Chitta Baral (Arizona State University, USA)</i>	

III Theory

A Preliminary Report on Integrating of Answer Set and Constraint Solving	13
<i>Sabrina Baselice (Univ. "Federico II", Italy), Piero Bonatti (Univ. "Federico II", Italy), Michael Gelfond (Texas Tech University, USA)</i>	
Extending Conceptual Logic Programs with Arbitrary Rules	27
<i>Stijn Heymans (Vrije Universiteit Brussel, Belgium), Davy Van Nieuwenborgh (Vrije Universiteit Brussel, Belgium) Dirk Vermeir (Vrije Universiteit Brussel, Belgium)</i>	
Combining Answer Sets of Nonmonotonic Logic Programs	42
<i>Chiaki Sakama (Wakayama University, Japan), Katsumi Inoue (National Institute of Informatics, Japan)</i>	
An Algebraic Account of Modularity in ID-logic	57
<i>Joost Vennekens (K.U.Leuven, Belgium), Marc Denecker (K.U.Leuven, Belgium)</i>	
Nelson's Strong Negation, Safe Beliefs and the Answer Set Semantics	70
<i>Magdalena Ortiz (Universidad de las Américas, México), Mauricio Osorio (Universidad de las Américas, México)</i>	
Disjunctive Answer Set Programming via Satisfiability	85
<i>Yuliya Lierler (Erlangen-Nürnberg Universität, Germany)</i>	

IV Software Engineering

Reducing Propositional Theories in Equilibrium Logic to Logic Programs	101
<i>Pedro Cabalar (Corunna University), David Pearce (Universidad Rey Juan Carlos), Agustín Valverde (Málaga University)</i>	
Towards Implementations for Advanced Equivalence Checking in Answer-Set Programming.....	115
<i>Hans Tompits (Technische Universität Wien, Austria), Stefan Woltran (Technische Universität Wien, Austria)</i>	
SELP - A System for Studying Strong Equivalence between Logic Programs ...	130
<i>Yin Chen (South China Normal University, China and Sun Yat-sen University, China), Fangzhen Lin (Hong Kong University of Science and Technology) and Lei Li (Sun Yat-sen University, China)</i>	
Debugging Logic Programs under the Answer Set Semantics	141
<i>Martin Brain (University of Bath, UK), Marina De Vos (University of Bath, UK)</i>	

V Implementation

A New Algorithm for Answer Set Computation	155
<i>Giuliano Grossi (Università degli Studi di Milano, Italy), Massimo Marchi (Università degli Studi di Milano, Italy)</i>	
The <i>nomore++</i> Approach to Answer Set Solving	163
<i>Christian Anger (Universität Potsdam, Germany), Martin Gebser (Universität Potsdam, Germany), Thomas Linke (Universität Potsdam, Germany), André Neumann (Universität Potsdam, Germany), Torsten Schaub (Universität Potsdam, Germany)</i>	
An Experimental Study of Search Strategies and Heuristics in Answer Set Programming.....	178
<i>Enrico Giunchiglia (University of Genova, Italy), Marco Maratea (University of Genova, Italy)</i>	
An Interactive Approach to Answer Set Programming	190
<i>Martin Brain (University of Bath, UK), Richard Watson (Texas Tech University, USA), Marina De Vos (University of Bath, UK)</i>	
Possibilistic Stable Model Computing	203
<i>Pascal Nicolas (University of Angers, France), Claire Lefèvre (University of Angers, France)</i>	

A Backjumping Technique for Disjunctive Logic Programming	216
<i>Wolfgang Faber (University of Calabria, Italy), Nicola Leone (University of Calabria, Italy), Francesco Ricca (University of Calabria)</i>	

VI Application

Intelligence Analysis Using Quantitative Preferences	233
<i>Davy Van Nieuwenborgh (Vrije Universiteit Brussel, Belgium), Stijn Heymans (Vrije Universiteit Brussel, Belgium), Dirk Vermeir (Vrije Universiteit Brussel, Belgium)</i>	
Exploiting ASP for Semantic Information Extraction	248
<i>Massimo Ruffolo (Exeura, Italy and ICAR-CNR, Italy), Nicola Leone (Exeura, Italy and University of Calabria, Italy), Marco Manna (ICAR-CNR, Italy)</i>	
<i>Domenico Saccà (ICAR-CNR, Italy and ICAR-CNR, Italy and University of Calabria, Italy) Amedeo Zavatto (ICAR-CNR, Italy)</i>	
Abduction and Preferences in Linguistics	263
<i>Kathrin Konczak (Universität Potsdam, Germany), Ralf Vogel (Universität Potsdam, Germany)</i>	
A Language for Modular Answer Set Programming: Application to ACC Tournament Scheduling	277
<i>Luis Tari (Arizona State University, USA), Chitta Baral (Arizona State University, USA), Saadat Anwar (Arizona State University, USA)</i>	
Specification of Assessment-test Criteria through ASP Specifications	293
<i>Giovambattista Ianni (Università della Calabria, Italy), Claudio Panetta (Università della Calabria, Italy), Francesco Ricca (Università della Calabria, Italy)</i>	
Modeling Hybrid Domains Using Process Description Language	303
<i>Sandeep Chintabathina (Texas Tech University, USA), Michael Gelfond (Texas Tech University, USA), Richard Watson (Texas Tech University, USA)</i>	
Applications of Preferences using Answer Set Programming	318
<i>Claudia Zepeda (Universidad de las Américas, México and Université Lyon 1 and INSA de Lyon, France), Mauricio Osorio (Universidad de las Américas, México), Juan Carlos Nieves (Universidad de las Américas, México), Christine Solnon (Université Lyon 1 and INSA de Lyon, France), David Sol (Universidad de las Américas, México)</i>	
Author Index	333