

# Table of Contents

## Invited Papers

A Computational Logic Approach to Heterogenous Agent Systems .....	1
<i>Jürgen Dix</i>	
Declarative Information Extraction, Web Crawling, and Recursive Wrapping with <i>Lixto</i> .....	21
<i>Robert Baumgartner, Sergio Flesca, and Georg Gottlob</i>	
On the Complexity of Model Checking and Inference in Minimal Models (Extended Abstract) .....	42
<i>Lefteris M. Kirousis and Phokion G. Kolaitis</i>	
Data Integration Needs Reasoning .....	54
<i>Maurizio Lenzerini</i>	
Nonmonotonic Inductive Logic Programming .....	62
<i>Chiaki Sakama</i>	

## Regular Papers

Strong Equivalence for Logic Programs and Default Theories (Made Easy) .....	81
<i>Hudson Turner</i>	
On the Effect of Default Negation on the Expressiveness of Disjunctive Rules .....	93
<i>Tommi Janhunen</i>	
On the Expressibility of Stable Logic Programming .....	107
<i>V. W. Marek and J. B. Remmel</i>	
On the Relationship between Defeasible Logic and Well-Founded Semantics .....	121
<i>Gerhard Brewka</i>	
A Comparative Study of Well-Founded Semantics for Disjunctive Logic Programs .....	133
<i>Kewen Wang</i>	
Reasoning with Open Logic Programs .....	147
<i>Piero A. Bonatti</i>	
Representation of Incomplete Knowledge by Induction of Default Theories .....	160
<i>Pascal Nicolas and Béatrice Duval</i>	

Explicitly Using Default Knowledge in Concept Learning: An Extended Description Logics Plus Strict and Default Rules .....	173
<i>Véronique Ventos, Pierre Brézellec and Henry Soldano</i>	
Declarative Specification and Solution of Combinatorial Auctions Using Logic Programming .....	186
<i>Chitta Baral and Cenk Uyan</i>	
Bounded LTL Model Checking with Stable Models .....	200
<i>Keijo Heljanko and Ilkka Niemelä</i>	
Diagnosing Physical Systems in A-Prolog .....	213
<i>Michael Gelfond, Marcello Balduccini, and Joel Galloway</i>	
Planning with Different Forms of Domain-Dependent Control Knowledge – An Answer Set Programming Approach .....	226
<i>Tran Cao Son, Chitta Baral, and Sheila McIlraith</i>	
Encoding Solutions of the Frame Problem in Dynamic Logic .....	240
<i>Norman Foo, Dongmo Zhang, Yan Zhang, Samir Chopra, and Bao Quoc Vo</i>	
$\mathcal{E}$ -RES: Reasoning about Actions, Events and Observations .....	254
<i>Antonis Kakas, Rob Miller, and Francesca Toni</i>	
Omega-Restricted Logic Programs .....	267
<i>Tommi Syrjänen</i>	
Improving ASP Instantiators by Join-Ordering Methods .....	280
<i>Nicola Leone, Simona Perri, and Francesco Scarcello</i>	
Optimizing the Computation of Heuristics for Answer Set Programming Systems .....	295
<i>Wolfgang Faber, Nicola Leone, and Gerald Pfeifer</i>	
New Generation Systems for Non-monotonic Reasoning .....	309
<i>Pascal Nicolas, Frédéric Saubion, and Igor Stéphan</i>	
Algorithms for Computing $X$ -Minimal Models .....	322
<i>Chen Avin and Rachel Ben-Eliyahu – Zohary</i>	
Fixpoint Characterizations for Many-Valued Disjunctive Logic Programs with Probabilistic Semantics .....	336
<i>Thomas Lukasiewicz</i>	
Multi-adjoint Logic Programming with Continuous Semantics .....	351
<i>Jesús Medina, Manuel Ojeda-Aciego, and Peter Vojtáš</i>	
Multi-dimensional Dynamic Knowledge Representation .....	365
<i>João Alexandre Leite, José Júlio Alferes, and Luís Moniz Pereira</i>	
Antitonic Logic Programs .....	379
<i>Carlos Viegas Damásio and Luís Moniz Pereira</i>	

## System Descriptions

A-system: Declarative Programming with Abduction .....	393
<i>Bert Van Nuffelen and Antonis Kakas</i>	
An Update Front-End for Extended Logic Programs .....	397
<i>Thomas Eiter, Michael Fink, Giuliana Sabbatini, and Hans Tompits</i>	
<i>aspps</i> – An Implementation of Answer-Set Programming with Propositional Schemata .....	402
<i>Deborah East and Mirosław Truszczyński</i>	
NoMoRe: A System for Non-Monotonic Reasoning under Answer Set Semantics .....	406
<i>Christian Anger, Kathrin Konczak, and Thomas Linke</i>	
plp: A Generic Compiler for Ordered Logic Programs .....	411
<i>James P. Delgrande, Torsten Schaub, and Hans Tompits</i>	
Prototypes for Reasoning with Infinite Stable Models and Function Symbols .....	416
<i>Piero A. Bonatti</i>	
psmodels: Stable Models Based on Pertinence .....	420
<i>Ramón P. Otero</i>	
System Description: DLV .....	424
<i>Tina Dell’Armi, Wolfgang Faber, Giuseppe Ielpa, Christoph Koch, Nicola Leone, Simona Perri, and Gerald Pfeifer</i>	
System Description: The $DLV^K$ Planning System .....	429
<i>Thomas Eiter, Wolfgang Faber, Nicola Leone, Gerald Pfeifer, and Axel Polleres</i>	
The Smodels System .....	434
<i>Tommi Syrjänen and Ilkka Niemelä</i>	
The USA-Advisor: A Case Study in Answer Set Planning .....	439
<i>Marcello Balduccini, Michael Gelfond, R. Watson and M. Nogueira</i>	
<b>Author Index</b> .....	443

Logic Programming and Nonmonotonic Reasoning  
6th International Conference, LPNMR 2001, Vienna,  
Austria, September 17-19, 2001. Proceedings  
Eiter, Th.; Faber, W.; Truszczyński, M. (Eds.)  
2001, X, 454 p., Softcover  
ISBN: 978-3-540-42593-9