

Table of Contents

Contributed Papers

Fixed Parameter Complexity in AI and Nonmonotonic Reasoning	1
G. Gottlob, F. Scarcello, M. Sideri	
Classifying Semi-Normal Default Logic on the Basis of its Expressive Power	19
T. Janhunen	
Locally Determined Logic Programs	34
D. Cenzler, J. B. Remmel, A. Vanderbilt	
Annotated Revision Programs	49
V. Marek, I. Pivkina, M. Truszczyński	
Belief, Knowledge, Revisions, and a Semantics of Non-Monotonic Reasoning	63
J. Sefranek	
An Argumentation Framework for Reasoning about Actions and Changes ..	78
A. Kakas, R. Miller, F. Toni	
Representing Transition Systems by Logic Programs	92
V. Lifschitz, H. Turner	
Transformations of Logic Programs Related to Causality and Planning	107
E. Erdem, V. Lifschitz	
From Causal Theories to Logic Programs (Sometimes)	117
F. Lin, K. Wang	
Monotone Expansion of Updates in Logical Databases	132
M. Dekhtyar, A. Dikovsky, S. Dudakov, N. Spyrtatos	
Updating Extended Logic Programs through Abduction	147
C. Sakama, K. Inoue	
LUPS – A Language for Updating Logic Programs	162
J. J. Alferes, L. M. Pereira, H. Przymusińska, T. Przymusiński	

Pushing Goal Derivation in DLP Computations	177
W. Faber, N. Leone, G. Pfeifer	
Linear Tabulated Resolution for Well Founded Semantics	192
Y. Shen, L. Yuan, J. You, N. Zhou	
A Case Study in Using Preference Logic Grammars for Knowledge Representation	206
B. Cui, T. Swift, D. S. Warren	
Minimal Founded Semantics for Disjunctive Logic Programming	221
S. Greco	
On the Role of Negation in Choice Logic Programs	236
M. De Vos, D. Vermeir	
Approximating Reiter's Default Logic	247
T. Linke, T. Schaub	
Coherent Well-founded Annotated Logic Programs	262
C. V. Damásio, L. M. Pereira, T. Swift	
Many-Valued Disjunctive Logic Programs with Probabilistic Semantics	277
T. Lukasiewicz	
Extending Disjunctive Logic Programming by T-norms	290
C. Mateis	
Extending the Stable Model Semantics with More Expressive Rules	305
P. Simons	
Stable Model Semantics for Weight Constraint Rules	317
I. Niemelä, P. Simons, T. Soininen	
Towards First-Order Nonmonotonic Reasoning	332
R. Rosati	
Comparison of Sceptical NAF-Free Logic Programming Approaches	347
G. Antoniou, M.J. Maher, Billington, G. Governatori	

Characterizations of Classes of Programs by Three-Valued Operators	357
P. Hitzler, A. K. Seda	

Invited Talks

Using LPNMR for Problem Specification and Code Generation (Abstract)	372
M. Cadoli	

Answer Set Planning (Abstract)	373
V. Lifschitz	

World-Modeling vs. World-Axiomatizing	375
D. McAllester	

Practical Nonmonotonic Reasoning: Extended Inheritance Techniques to Solve Real-World Problems	389
L. Morgenstern	

Author Index	391
-------------------------------	-----

Logic Programming and Nonmonotonic Reasoning
5th International Conference, LPNMR '99, El Paso,
Texas, USA, December 2-4, 1999 Proceedings
Gelfond, M.; Leone, N.; Pfeifer, G. (Eds.)
1999, XII, 396 p., Softcover
ISBN: 978-3-540-66749-0