

Table of Contents

Invited Speakers

Solving the Multiplication Constraint in Several Approximation Spaces ...	1
<i>A. Colmerauer</i>	
Is Logic Really Dead or Only Just Sleeping?	2
<i>R. Kowalski</i>	
Design of Syntactic Program Transformations by Abstract Interpretation of Semantic Transformations	4
<i>P. Cousot</i>	
X-tegration – Some Cross-Enterprise Thoughts	6
<i>A. Gupta</i>	

Tutorials

Building Real-Life Applications with Prolog	7
<i>J. Wielemaker</i>	
Natural Language Tabular Parsing	8
<i>É. Villemonte de la Clergerie</i>	
A Close Look at Constraint-Based Concurrency	9
<i>K. Ueda</i>	
Probabilistic Databases and Logic Programming	10
<i>V.S. Subrahmanian</i>	

Conference Papers

Understanding Memory Management in Prolog Systems	11
<i>L.F. Castro, V.S. Costa</i>	
PALS: An Or-Parallel Implementation of Prolog on Beowulf Architectures	27
<i>K. Villaverde, E. Pontelli, H. Guo, G. Gupta</i>	
On a Tabling Engine That Can Exploit Or-Parallelism	43
<i>R. Rocha, F. Silva, V.S. Costa</i>	
Revisiting the <i>Cardinality</i> Operator and Introducing the <i>Cardinality-Path</i> Constraint Family	59
<i>N. Beldiceanu, M. Carlsson</i>	

Optimizing Compilation of Constraint Handling Rules	74
<i>C. Holzbaur, M. García de la Banda, D. Jeffery, P.J. Stuckey</i>	
Building Constraint Solvers with HAL	90
<i>M. García de la Banda, D. Jeffery, K. Marriott, N. Nethercote, P.J. Stuckey, C. Holzbaur</i>	
Practical Aspects for a Working Compile Time Garbage Collection System for Mercury	105
<i>N. Mazur, P. Ross, G. Janssens, M. Bruynooghe</i>	
Positive Boolean Functions as Multiheaded Clauses	120
<i>J.M. Howe, A. King</i>	
Higher-Precision Groundness Analysis	135
<i>M. Codish, S. Genaim, H. Søndergaard, P.J. Stuckey</i>	
Speculative Beats Conservative Justification	150
<i>H.-F. Guo, C.R. Ramakrishnan, I.V. Ramakrishnan</i>	
Local and Symbolic Bisimulation Using Tabled Constraint Logic Programming	166
<i>S. Basu, M. Mukund, C.R. Ramakrishnan, I.V. Ramakrishnan, R. Verma</i>	
A Simple Scheme for Implementing Tabled Logic Programming Systems Based on Dynamic Reordering of Alternatives	181
<i>H.-F. Guo, G. Gupta</i>	
Fixed-Parameter Complexity of Semantics for Logic Programs	197
<i>Z. Lonc, M. Truszczyński</i>	
Ultimate Well-Founded and Stable Semantics for Logic Programs with Aggregates	212
<i>M. Denecker, N. Pelov, M. Bruynooghe</i>	
Alternating Fixed Points in Boolean Equation Systems as Preferred Stable Models	227
<i>K. Narayan Kumar, C.R. Ramakrishnan, S.A. Smolka</i>	
Fages' Theorem for Programs with Nested Expressions	242
<i>E. Erdem, V. Lifschitz</i>	
Semantics of Normal Logic Programs with Embedded Implications	255
<i>F. Orejas, E. Pasarella, E. Pino</i>	
A Multi-adjoint Logic Approach to Abductive Reasoning	269
<i>J. Medina, M. Ojeda-Aciego, P. Vojtáš</i>	

Proving Correctness and Completeness of Normal Programs	
– A Declarative Approach	284
<i>W. Drabent, M. Milkowska</i>	
An Order-Sorted Resolution with Implicitly Negative Sorts	300
<i>K. Kaneiwa, S. Tojo</i>	
Logic Programming in a Fragment	
of Intuitionistic Temporal Linear Logic	315
<i>M. Banbara, K.-S. Kang, T. Hirai, N. Tamura</i>	
A Computational Model for Functional Logic Deductive Databases	331
<i>J.M. Almendros-Jiménez, A. Becerra-Terón, J. Sánchez-Hernández</i>	
A Logic Programming Approach to the Integration, Repairing	
and Querying of Inconsistent Databases	348
<i>G. Greco, S. Greco, E. Zumpano</i>	
Author Index	365

Logic Programming

17th International Conference, ICLP 2001, Paphos,

Cyprus, November 26 - December 1, 2001. Proceedings

Codognet, P. (Ed.)

2001, XI, 368 p., Softcover

ISBN: 978-3-540-42935-7