Listing of the Technical Communications of the 26th ICLP

This is a listing of the *Invited Papers* and *Technical Communications* which were also presented at ICLP 2010. These papers constitute Volume 7 of the Leibniz International Proceedings in Informatics (LIPIcs) series, published on line through the Dagstuhl Research Online Publication Server (DROPS). In addition to these invited papers and technical communications the volume also includes the 15 papers presented at the ICLP Doctoral Symposium.

Preface

Introduction to the Technical Communications of ICLP 2010
Manuel Hermenegildo and Torsten Schaub

Invited Papers

Datalog for Enterprise Software: From Industrial Applications to Research (Invited Talk)
Molham Aref

A Logical Paradigm for Systems Biology (Invited Talk)
François Fages

Technical Communications

Runtime Addition of Integrity Constraints in Abductive Logic Programs
Marco Alberti, Marco Gavanelli, Evelina Lamma

Learning Domain-Specific Heuristics for Answer Set Solvers
Marcello Balduccini

HEX Programs with Action Atoms
Selen Basol, Ozan Erdem, Michael Fink, Giovambattista Ianni

Communicating Answer Set Programs
Kim Bauters, Jeroen Janssen, Steven Schockaert, Dirk Vermeir, Martine De Cock

Implementation Alternatives for Bottom-Up Evaluation
Stefan Brass

Inductive Logic Programming as Abductive Search
Domenico Corapi, Alessandra Russo, Emil Lupu

Efficient Solving of Time-Dependent Answer Set Programs
Timur Fayruzov, Jeroen Janssen, Martine De Cock, Chris Cornelis, Dirk Vermeir

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Improving the Efficiency of Gibbs Sampling for Probabilistic Logical Models by Means of Program Specialization
Daan Fierens

Focused Proof Search for Linear Logic in the Calculus of Structures
Nicolas Guenot

Sampler Programs: The Stable Model Semantics Abstract Constraint Programs Revisited
Tomi Janhunen

A Framework for Verification and Debugging of Resource Usage Properties
Pedro Lopez-Garcia, Luthfi Darmawan, Francisco Bueno

Contractible Approximations of Soft Global Constraints
Michael Maher

Dedicated Tabling for a Probabilistic Setting
Theofrastos Mantadelis, Gerda Janssens

Tight Semantics for Logic Programs
Luis Moniz Pereira, Alexandre Miguel Pinto

From Relational Specifications to Logic Programs
Joseph Near

Methods and Methodologies for Developing Answer-Set Programs—Project Description
Johannes Oetsch, Joerg Puehrer, Hans Tompits

Tabling and Answer Subsumption for Reasoning on Logic Programs with Annotated Disjunctions
Fabrizio Riguzzi, Terrance Swift

Subsumer: A Prolog Theta-Subsumption Engine
Jose Santos, Stephen Muggleton

Using Generalized Annotated Programs to Solve Social Network Optimization Problems
Paulo Shakarian, V.S. Subrahmanian, Maria Luisa Sapino

Abductive Inference in Probabilistic Logic Programs
Gerardo Simari, V.S. Subrahmanian

Circumscription and Projection as Primitives of Logic Programming
Christoph Wernhard

Timed Definite Clause Omega-Grammars
Neda Saeedloei, Gopal Gupta

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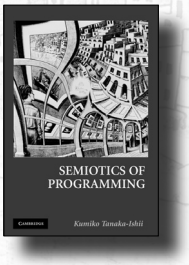

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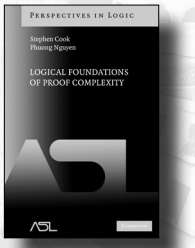

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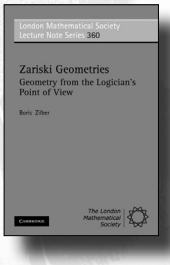

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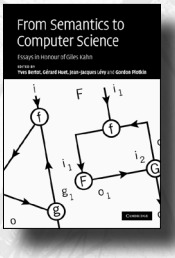

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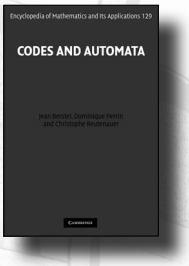

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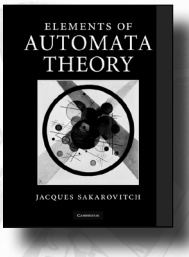

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