

Table of Contents

Invited Papers

Answer Set Programming in 2010: A Personal Perspective.....	1
<i>Enrico Pontelli</i>	
An Introduction to Maude and Some of Its Applications	4
<i>Narciso Martí-Oliet</i>	

Non-Monotonic Reasoning - Answer Set Programming

Efficient Application of Answer Set Programming for Advanced Data Integration	10
<i>Nicola Leone, Francesco Ricca, Luca Agostino Rubino, and Giorgio Terracina</i>	
Implementing Query Answering for Hybrid MKNF Knowledge Bases ...	25
<i>Ana Sofia Gomes, José Júlio Alferes, and Terrance Swift</i>	
An ASP-Based System for Team-Building in the Gioia-Tauro Seaport	40
<i>Giovanni Grasso, Salvatore Iiritano, Nicola Leone, Vincenzino Lio, Francesco Ricca, and Francesco Scalise</i>	

Types

Explicitly Typed Exceptions for Haskell.....	43
<i>José Iborra</i>	
Conversion by Evaluation	58
<i>Mathieu Boespflug</i>	

Parallelism and Distribution

Skeleton Composition Using Remote Data	73
<i>Mischa Dieterle, Thomas Horstmeyer, and Rita Loogen</i>	
Netlog, a Rule-Based Language for Distributed Programming.....	88
<i>Stéphane Grumbach and Fang Wang</i>	

Code Quality Assurance

Similar Code Detection and Elimination for Erlang Programs	104
<i>Huiqing Li and Simon Thompson</i>	
Static Detection of Race Conditions in Erlang	119
<i>Maria Christakis and Konstantinos Sagonas</i>	
Automating Mathematical Program Transformations	134
<i>Ashish Agarwal, Sooraj Bhat, Alexander Gray, and Ignacio E. Grossmann</i>	
ActionScript In-Lined Reference Monitoring in Prolog	149
<i>Meera Sridhar and Kevin W. Hamlen</i>	

Domain Specific Languages

An Ode to Arrows	152
<i>Hai Liu and Paul Hudak</i>	
Lazy Combinators for Executable Specifications of General Attribute Grammars	167
<i>Rahmatullah Hafiz and Richard A. Frost</i>	
A Domain-Specific Language Approach to Protocol Stack Implementation	183
<i>Yan Wang and Verónica Gaspes</i>	

Programming Aids

First-Order Interactive Programming	186
<i>Roly Perera</i>	
An ER-Based Framework for Declarative Web Programming	201
<i>Michael Hanus and Sven Koschnicke</i>	

Constraints

Lazy Explanations for Constraint Propagators	217
<i>Ian P. Gent, Ian Miguel, and Neil C.A. Moore</i>	
On the Implementation of the CLP($\mathcal{BN}$) Language	234
<i>Vítor Santos Costa</i>	

Tabling - Agents

Compact Lists for Tabled Evaluation	249
<i>João Raimundo and Ricardo Rocha</i>	

A Simple and Efficient Implementation of Concurrent Local Tabling	264
<i>Rui Marques, Terrance Swift, and José Cunha</i>	
An Efficient Implementation of Linear Tabling Based on Dynamic Reordering of Alternatives	279
<i>Miguel Areias and Ricardo Rocha</i>	
Prospective Storytelling Agents	294
<i>Gonçalo Lopes and Luís Moniz Pereira</i>	
Author Index	297