

Table of Contents

Software Engineering

Automated Benchmarking of Functional Data Structures.....	1
<i>G.E. Moss and C. Runciman</i>	
NP-SPEC: An Executable Specification Language for Solving All Problems in NP	16
<i>M. Cadoli, L. Palopoli, A. Schaerf, and D. Vasile</i>	
Prototyping a Requirements Specification through an Automatically Generated Concurrent Logic Program	31
<i>P. Letelier, P. Sánchez, and I. Ramos</i>	
Multi-agent Systems Development as a Software Engineering Enterprise.....	46
<i>M. Bozzano, G. Delzanno, M. Martelli, V. Mascardi, and F. Zini</i>	

Innovative Applications I

From Functional Animation to Sprite-Based Display	61
<i>C. Elliott</i>	
Beyond Pretty-Printing: Galley Concepts in Document Formatting Combinators.....	76
<i>W. Kahl</i>	
Lambda in Motion: Controlling Robots with Haskell	91
<i>J. Peterson, P. Hudak, and C. Elliott</i>	

Implementation

CHAT: The Copy-Hybrid Approach to Tabling	106
<i>B. Demoen and K. Sagonas</i>	
The Influence of Parallel Computer Architectural Parameters on the Performance of Parallel Logic Programming Systems	122
<i>M.G. Silva, I.C. Dutra, R. Bianchini, and V. Santos Costa</i>	
Or-Parallelism within Tabling	137
<i>R. Rocha, F. Silva, and V. Santos Costa</i>	

Declarative Query Processing

Mnesia – A Distributed Robust DBMS for Telecommunications Applications.....	152
<i>H. Mattsson, H. Nilsson, and C. Wikström</i>	
An AQUA-Based Intermediate Language for Evaluating an Active Deductive Object-Oriented Language.....	164
<i>B. Siddabathuni, S.W. Dietrich, and S.D. Urban</i>	
Implementing a Declarative String Query Language with String Restructuring	179
<i>R. Hakli, M. Nykänen, H. Tamm, and E. Ukkonen</i>	

Systems Applications

Client-Side Web Scripting with HaskellScript	196
<i>E. Meijer, D. Leijen, and J. Hook</i>	
MCORBA: A CORBA Binding for Mercury	211
<i>D. Jeffery, T. Dowd, and Z. Somogyi</i>	

Analysis

Dead Code Elimination through Dependent Types	228
<i>H. Xi</i>	
Multiple Specialization of WAM Code	243
<i>M. Ferreira and L. Damas</i>	
A Flexible Framework for Dynamic and Static Slicing of Logic Programs	259
<i>W.W. Vasconcelos</i>	

Innovative Applications II

Applying Logic Programming to Derive Novel Functional Information of Genomes	275
<i>A.K. Bansal and P. Bork</i>	
An Application of Action Theory to the Space Shuttle	290
<i>R. Watson</i>	
Developing a Declarative Rule Language for Applications in Product Configuration	305
<i>T. Soinenen and I. Niemelä</i>	

Constraint Programming

University Timetabling Using Constraint Logic Programming	320
<i>H-J. Goltz and D. Matzke</i>	
Constraint-Based Resource Allocation and Scheduling in Steel Manufacturing	335
<i>M. Carlsson, P. Kreuger, and E. Åström</i>	
Using Constraints in Local Proofs for CLP Debugging	350
<i>C. Lai</i>	

Declarative Languages and Software Engineering (Invited)

A Return to Elegance: The Reapplication of Declarative Notation to Software Design	360
<i>D.A. Schmidt</i>	
ECLiPSe : Declarative Specification and Scaleable Implementation	365
<i>M. Wallace and J. Schimpf</i>	
Author Index	367

<http://www.springer.com/978-3-540-65527-5>

Practical Aspects of Declarative Languages

First International Workshop, PADL'99, San Antonio,
Texas, USA, January 18-19, 1999, Proceedings

Gupta, G. (Ed.)

1998, VIII, 376 p., Softcover

ISBN: 978-3-540-65527-5