

# Table of Contents

## Constraint Solving

A Comparative Study of Arithmetic Constraints on Integer Intervals . . . . .	1
<i>Krzysztof R. Apt and Peter Zoetewij</i>	
Clustering for Disconnected Solution Sets of Numerical CSPs . . . . .	25
<i>Xuan-Ha Vu, Djamila Sam-Haroud, and Boi Faltings</i>	
Implementing Propagators for Tabular Constraints . . . . .	44
<i>Roman Barták and Roman Mecl</i>	
Constraint Methods for Modal Satisfiability . . . . .	66
<i>Sebastian Brand, Rosella Gennari, and Maarten de Rijke</i>	
Learning Approximate Consistencies . . . . .	87
<i>Arnaud Lallouet, Andreï Legtchenko, Thi-Bich-Hanh Dao, and AbdelAli Ed-Dbali</i>	

## Soft Constraints

Abstracting Soft Constraints: Some Experimental Results on Fuzzy CSPs . . . . .	107
<i>Stefano Bistarelli, Francesca Rossi, and Isabella Pila</i>	
Tradeoff Generation Using Soft Constraints . . . . .	124
<i>Stefano Bistarelli, Jerome Kelleher, and Barry O’Sullivan</i>	
Experimental Evaluation of Interchangeability in Soft CSPs . . . . .	140
<i>Nicoleta Neagu, Stefano Bistarelli, and Boi Faltings</i>	

## Language Issues

A Rule Language for Interaction . . . . .	154
<i>Carlos Castro, Eric Monfroy, and Christophe Ringeissen</i>	
A Generic Trace Schema for the Portability of CP(FD) Debugging Tools . . . . .	171
<i>Ludovic Langevine, Pierre Deransart, and Mireille Ducassé</i>	

## Applications

Teaching Constraints through Logic Puzzles . . . . .	196
<i>Péter Szeredi</i>	
Reduce-To-The-Opt – A Specialized Search Algorithm for Contiguous Task Scheduling . . . . .	223
<i>Armin Wolf</i>	
A New Approach to Modeling and Solving Minimal Perturbation Problems . . . . .	233
<i>Roman Barták, Tomáš Müller, and Hana Rudová</i>	
Protein Folding in $\text{CLP}(\mathcal{FD})$ with Empirical Contact Energies . . . . .	250
<i>Alessandro Dal Palù, Agostino Dovier, and Federico Fogolari</i>	
Gestures for Embodied Agents with Logic Programming . . . . .	266
<i>Zsófia Ruttkay, Zhisheng Huang, and Anton Eliens</i>	
<b>Author Index</b> . . . . .	285

Recent Advances in Constraints

Joint ERCIM/CoLogNET International Workshop on  
Constraint Solving and Constraint Logic Programming,  
CSCLP 2003, Budapest, Hungary, June 30 - July 2, 2003,  
Selected Papers

Apt, K.; Fages, F.; Rossi, F.; Szeredi, P.; Váncza, J. (Eds.)  
2004, VIII, 288 p., Softcover  
ISBN: 978-3-540-21834-0