

Contents

1.	Introduction	
1.1	Constraint Satisfaction and Constraint Programming: A Brief Lead-In <i>B. Mayoh, E. Tyugu and T. Uustalu</i>	1
1.2	Constraint Programming and Artificial Intelligence <i>B. Mayoh</i>	17
2.	Constraint Solving Techniques	
2.1	Exploiting Structure in Constraint Satisfaction Problems <i>E. C. Freuder</i>	51
2.2	Constraint Hierarchies <i>A. Borning, B. Freeman-Benson and M. Wilson</i>	75
2.3	Higher-Order Functional Constraint Networks <i>E. Tyugu and T. Uustalu</i>	116
2.4	Interval Computations as Propagation of Constraints <i>Y. Matiyasevich</i>	140
2.5	Applying Constraints for Scheduling <i>M. Wallace</i>	153
3.	Foundations of Constraint Programming Approaches	
3.1	Concurrent Semantics for Concurrent Constraint Programs <i>F. Rossi and U. Montanari</i>	173
3.2	Abstract Interpretation for (Constraint) Logic Programming <i>M. Bruynooghe and D. Boulanger</i>	228
3.3	Denotational Semantics of Constraint Logic Programming – A Nonstandard Approach <i>E. Palmgren</i>	261
3.4	Resolution Strategies for the Intuitionistic Logic <i>G. Mints</i>	289
4.	Constraint Programming Systems	
4.1	Kaleidoscope: A Constraint Imperative Programming Language <i>G. Lopez, B. Freeman-Benson and A. Borning</i>	313
4.2	Constraints in NUT <i>J. Penjam and E. Tyugu</i>	330
4.3	Interval Constraint Programming in C++ <i>E. Hyvönen, S. De Pascale and A. Lehtola</i>	350
4.4	Programming in Timed Concurrent Constraint Languages <i>V. Saraswat, R. Jagadeesan and V. Gupta</i>	367
4.5	An Introduction to AKL A Multi-Paradigm Programming Language <i>S. Janson and S. Haridi</i>	414
	Appendix	451