

CP'09 Accepted Papers

Application Track Papers

- Generating Optimal Stowage Plans for Container Vessel Bays
Alberto Delgado, Rune Jensen, Christian Schulte
- Real-Time Tabu Search for Video Tracking Association
Ivan Dotu, Pascal Van Hentenryck, Miguel Patricio, A Berlanga, Jose Garcia, Jose Molina
- Pin Assignment using Stochastic Local Search Constraint Programming . .
Haggai Eran, Bella Dubrov, Ari Freund, Edward F. Mark, Shyam Ramji, Timothy A. Schell
- Modelling Equidistant Frequency Permutation Arrays: An Application
of Constraints to Mathematics
Sophie Huczynska, Paul McKay, Ian Miguel, Peter Nightingale
- Scheduling the CB1000 Nanoproteomic Analysis System with Python,
Tailor, and Minion
Andrew Loewenstern
- Solving Nurse Rostering Problems Using Soft Global Constraints
Jean-Philippe Mátivier, Patrice Boizumault, Samir Loudni
- Online Selection of Quorum Systems for RAMBO Reconfiguration
Laurent Michel, Alexander Shvartsman, Pascal Van Hentenryck, Elaine Sonderegger, Martijn Moraal
- A Hybrid Constraint Model for the Routing and Wavelength
Assignment Problem
Helmut Simonis

Research Track Papers

- Memoisation for constraint-based local search
Magnus Ågren
- On the Structure of Industrial SAT Instances
Carlos Ansotegui, Maria Luisa Bonet, Jordi Levy
- A Gender-Based Genetic Algorithm for the Automatic Configuration
of Solvers
Carlos Ansotegui, Meinolf Sellmann, Kevin Tierney

Filtering Numerical CSPs Using Well-Constrained Subsystems	<i>Ignacio Araya, Gilles Trombettoni, Bertrand Neveu</i>
Minimising Decision Tree Size as Combinatorial Optimisation	<i>Christian Bessiere, Emmanuel Hebrard, Barry O’Sullivan</i>
Hull Consistency Under Monotonicity	<i>Gilles Chabert, Luc Jaulin</i>
A Constraint on the Number of Distinct Vectors with Application to Localization	<i>Gilles Chabert, Luc Jaulin, Xavier Lorca</i>
Approximating Weighted Max-SAT Problems by Compensating for Relaxations	<i>Arthur Choi, Trevor Standley, Adnan Darwiche</i>
Confidence-based Work Stealing in Parallel Constraint Programming	<i>Geoffrey Chu, Christian Schulte, Peter Stuckey</i>
Minimizing the maximum number of open stacks by customer search	<i>Geoffrey Chu, Peter Stuckey</i>
Using relaxations in Maximum Density Still Life	<i>Geoffrey Chu, Peter Stuckey, Maria Garcia de la Banda</i>
Constraint-Based Graph Matching	<i>Vianney le Clément, Yves Deville, Christine Solnon</i>
Constraint Representations and Structural Tractability	<i>David Cohen, Martin Green, Chris Houghton</i>
Asynchronous Inter-Level Forward-Checking for DisCSPs	<i>Redouane Ezzahir, Christian Bessiere, Mohamed Wahbi, Imade Benelal- lam, El Houssine Bouyakhf</i>
From Model-Checking to Temporal Logic Constraint Solving	<i>François Fages, Aurélien Rizk</i>
Exploiting Problem Structure for Solution Counting	<i>Aurélie Favier, Simon de Givry, Philippe Jégou</i>
Solving a Location-Allocation Problem with Logic-Based Benders’ Decomposition	<i>Mohammad Fazel-Zarandi, Chris Beck</i>
Lazy Clause Generation Reengineered	<i>Thibaut Feydy, Peter Stuckey</i>

The Proper Treatment of Undefinedness in Constraint Languages	<i>Alan Frisch, Peter Stuckey</i>
Search Spaces for Min-Perturbation Repair	<i>Alex Fukunaga</i>
Snake Lex: an Alternative to Double Lex	<i>Andrew Grayland, Ian Miguel, Colva Roney-Dougal</i>
Closing the Open Shop: Contradicting Conventional Wisdom	<i>Diarmuid Grimes, Emmanuel Hebrard, Arnaud Malapert</i>
Reasoning about Optimal Collections of Solutions	<i>Tarik Hadzic, Alan Holland, Barry O'Sullivan</i>
Constraints of Difference and Equality: A Complete Taxonomic Characterisation	<i>Emmanuel Hebrard, Daniel Marx, Barry O'Sullivan, Igor Razgon</i>
Synthesizing Filtering Algorithms for Global Chance-Constraints	<i>Brahim Hnich, Roberto Rossi, S. Armagan Tarim, Steven Prestwich</i>
An Interpolation Method for CLP Traversal	<i>Joxan Jaffar, Andrew Edward Santosa, Razvan Voicu</i>
Same-Relation Constraints	<i>Christopher Jefferson, Serdar Kadioglu, Karen Petrie, Meinolf Sellmann, Stanislav Zivny</i>
Dialectic Search	<i>Serdar Kadioglu, Meinolf Sellmann</i>
Restricted Global Grammar Constraints	<i>George Katsirelos, Sebastian Maneth, Nina Narodytska, Toby Walsh</i>
Conflict Resolution	<i>Konstantin Korovin, Nestan Tsiskaridze, Andrei Voronkov</i>
Propagator Groups	<i>Mikael Lagerkvist, Christian Schulte</i>
Efficient Generic Search Heuristics within the EMBP framework	<i>Ronan Le Bras, Alessandro Zanarini, Gilles Pesant</i>
Failed Value Consistencies for Constraint Satisfaction	<i>Christophe Lecoutre, Olivier Roussel</i>
A Precedence Constraint Posting Approach for the RCPSP with Time Lags and Variable Durations	<i>Michele Lombardi, Michela Milano</i>

SOGgy Constraints: Soft Open Global Constraints	<i>Michael Maher</i>
Exploiting Problem Decomposition in Multi-objective Constraint Optimization	<i>Radu Marinescu</i>
Search Space Extraction	<i>Deepak Mehta, Barry O'Sullivan, Luis Quesada, Nic Wilson</i>
Coalition Structure Generation Utilizing Compact Characteristic Function Representations	<i>Naoki Ohta, Vincent Conitzer, Ryo Ichimura, Yuko Sakurai, Atsushi Iwasaki, Makoto Yokoo</i>
Compiling all Possible Conflicts of a CSP	<i>Alexandre Papadopoulos, Barry O'Sullivan</i>
On the Power of Clause-Learning SAT Solvers with Restarts	<i>Knot Pipatsrisawat, Adnan Darwiche</i>
Slice Encoding for Constraint-based Planning	<i>Cédric Pralet, Gérard Verfaillie</i>
Evolving Parameterised Policies for Stochastic Constraint Programming ..	<i>Steve Prestwich, Armagan Tarim, Roberto Rossi, Brahim Hnich</i>
Maintaining State in Propagation Solvers	<i>Raphael M. Reischuk, Christian Schulte, Peter J. Stuckey, Guido Tack</i>
Cost-Driven Interactive CSP with Constraint Relaxation	<i>Yevgeny Schreiber</i>
Weakly Monotonic Propagators	<i>Christian Schulte, Guido Tack</i>
Constraint-based Optimal Testing Using DNNF Graphs	<i>Anika Schumann, Martin Sachenbacher, Jinbo Huang</i>
Why cumulative decomposition is not as bad as it sounds	<i>Andreas Schutt, Thibaut Feydy, Peter Stuckey, Mark Wallace</i>
On Decomposing Knapsack Constraints for Length-Lex Bounds Consistency	<i>Meinolf Sellmann</i>
Realtime Online Solving of Quantified CSPs	<i>David Stynes, Kenneth N. Brown</i>

Constraint-Based Local Search for the Automatic Generation of Architectural Tests	
<i>Pascal Van Hentenryck, Carleton Coffrin, Boris Gutkovich</i>	
Edge Finding Filtering Algorithm for Discrete Cumulative Resources in $O(kn \log n)$	
<i>Petr Vilím</i>	
Evaluation of Length-Lex Set Variables	
<i>Justin Yip, Pascal Van Hentenryck</i>	
The complexity of valued constraint models	
<i>Stanislav Zivny, Peter G. Jeavons</i>	