

# Contents

## Full Papers

Learning a Stopping Criterion for Local Search . . . . .	3
<i>Alejandro Arbelaez and Barry O'Sullivan</i>	
Surrogate Assisted Feature Computation for Continuous Problems . . . . .	17
<i>Nacim Belkhir, Johann Dréo, Pierre Savéant, and Marc Schoenauer</i>	
MO-ParamILS: A Multi-objective Automatic Algorithm Configuration Framework. . . . .	32
<i>Aymeric Blot, Holger H. Hoos, Laetitia Jourdan, Marie-Éléonore Kessaci-Marmion, and Heike Trautmann</i>	
Evolving Instances for Maximizing Performance Differences of State-of-the-Art Inexact TSP Solvers . . . . .	48
<i>Jakob Bossek and Heike Trautmann</i>	
Extreme Reactive Portfolio (XRP): Tuning an Algorithm Population for Global Optimization . . . . .	60
<i>Mauro Brunato and Roberto Battiti</i>	
Bounding the Search Space of the Population Harvest Cutting Problem with Multiple Size Stock Selection . . . . .	75
<i>Laura Climent, Barry O'Sullivan, and Steven D. Prestwich</i>	
Designing and Comparing Multiple Portfolios of Parameter Configurations for Online Algorithm Selection . . . . .	91
<i>Aldy Gunawan, Hoong Chuin Lau, and Mustafa Mısıır</i>	
Portfolios of Subgraph Isomorphism Algorithms . . . . .	107
<i>Lars Kotthoff, Ciaran McCreesh, and Christine Solnon</i>	
Structure-Preserving Instance Generation . . . . .	123
<i>Yuri Malitsky, Marius Merschformann, Barry O'Sullivan, and Kevin Tierney</i>	
Feature Selection Using Tabu Search with Learning Memory: Learning Tabu Search . . . . .	141
<i>Lucien Mousin, Laetitia Jourdan, Marie-Éléonore Kessaci Marmion, and Clarisse Dhaenens</i>	

The Impact of Automated Algorithm Configuration on the Scaling Behaviour of State-of-the-Art Inexact TSP Solvers . . . . .	157
<i>Zongxu Mu, Holger H. Hoos, and Thomas Stützle</i>	
Requests Management for Smartphone-Based Matching Applications Using a Multi-agent Approach . . . . .	173
<i>Gilles Simonin and Barry O'Sullivan</i>	
Self-organizing Neural Network for Adaptive Operator Selection in Evolutionary Search. . . . .	187
<i>Teck-Hou Teng, Stephanus Daniel Handoko, and Hoong Chuin Lau</i>	
Quantifying the Similarity of Algorithm Configurations . . . . .	203
<i>Lin Xu, Ashiqur R. KhudaBukhsh, Holger H. Hoos, and Kevin Leyton-Brown</i>	
<b>Short Papers</b>	
Neighborhood Synthesis from an Ensemble of MIP and CP Models . . . . .	221
<i>Tommaso Adamo, Tobia Calogiuri, Gianpaolo Ghiani, Antonio Grieco, Emanuela Guerriero, and Emanuele Manni</i>	
Parallelizing Constraint Solvers for Hard RCPSP Instances. . . . .	227
<i>Roberto Amadini, Maurizio Gabbrielli, and Jacopo Mauro</i>	
Characterization of Neighborhood Behaviours in a Multi-neighborhood Local Search Algorithm. . . . .	234
<i>Nguyen Thi Thanh Dang and Patrick De Causmaecker</i>	
Constraint Programming and Machine Learning for Interactive Soccer Analysis . . . . .	240
<i>Robinson Duque, Juan Francisco Díaz, and Alejandro Arbelaez</i>	
A Matheuristic Approach for the $p$ -Cable Trench Problem . . . . .	247
<i>Eduardo Lalla-Ruiz, Silvia Schwarze, and Stefan Voß</i>	
An Empirical Study of Per-instance Algorithm Scheduling . . . . .	253
<i>Marius Lindauer, Rolf-David Bergdoll, and Frank Hutter</i>	
Dynamic Strategy to Diversify Search Using a History Map in Parallel Solving. . . . .	260
<i>Seongsoo Moon and Mary Inaba</i>	
Faster Model-Based Optimization Through Resource-Aware Scheduling Strategies. . . . .	267
<i>Jakob Richter, Helena Kotthaus, Bernd Bischl, Peter Marwedel, Jörg Rahnenführer, and Michel Lang</i>	

Risk-Averse Anticipation for Dynamic Vehicle Routing. . . . .	274
<i>Marlin W. Ulmer and Stefan Voß</i>	

**GENOPT Papers**

Solving GENOPT Problems with the Use of ExaMin Solver . . . . .	283
<i>Konstantin Barkalov, Alexander Sysoyev, Ilya Lebedev,</i> <i>and Vladislav Sovrasov</i>	

Hybridisation of Evolutionary Algorithms Through Hyper-heuristics for Global Continuous Optimisation . . . . .	296
<i>Eduardo Segredo, Eduardo Lalla-Ruiz, Emma Hart, Ben Paechter,</i> <i>and Stefan Voß</i>	

<b>Subject Index</b> . . . . .	307
--------------------------------	-----

<b>Author Index</b> . . . . .	309
-------------------------------	-----

Learning and Intelligent Optimization

10th International Conference, LION 10, Ischia, Italy,

May 29 -- June 1, 2016, Revised Selected Papers

Festa, P.; Sellmann, M.; Vanschoren, J. (Eds.)

2016, XI, 309 p. 74 illus., Softcover

ISBN: 978-3-319-50348-6