Table of Contents

Evolutionary Local Search for the Super-Peer Selection Problem and the p-Hub Median Problem 1
Steffen Wolf and Peter Merz

An Effective Memetic Algorithm with Population Management for the Split Delivery Vehicle Routing Problem 16
Mourad Boudia, Christian Prins, and Mohamed Reghioui

Empirical Analysis of Two Different Metaheuristics for Real-World Vehicle Routing Problems 31
Tonči Carić, Juraj Fosin, Ante Galić, Hrvoje Gold, and Andreas Reinholz

Guiding ACO by Problem Relaxation: A Case Study on the Symmetric TSP 45
Marc Reimann

Hybrid Local Search Techniques for the Resource-Constrained Project Scheduling Problem 57
Igor Pesek, Andrea Schaerf, and Janez Žerovnik

Evolutionary Clustering Search for Flowtime Minimization in Permutation Flow Shop 69
Geraldo Ribeiro Filho, Marcelo Seido Nagano, and Luiz Antonio Nogueira Lorena

A Hybrid ILS Heuristic to the Referee Assignment Problem with an Embedded MIP Strategy 82
Alexandre R. Duarte, Celso C. Ribeiro, and Sebastián Urrutia

On the Combination of Constraint Programming and Stochastic Search: The Sudoku Case 96
Rhydian Lewis

Improvement Strategies for the F-Race Algorithm: Sampling Design and Iterative Refinement 108
Prasanna Balaprakash, Mauro Birattari, and Thomas Stützle

Using Branch & Bound Concepts in Construction-Based Metaheuristics: Exploiting the Dual Problem Knowledge 123
Christian Blum and Monaldo Mastrolilli

Gradient-Based/Evolutionary Relay Hybrid for Computing Pareto Front Approximations Maximizing the S-Metric 140
Michael Emmerich, André Deutz, and Nicola Beume

A Hybrid VNS for Connected Facility Location 157
Ivana Ljubić

A Memetic Algorithm for the Optimum Communication Spanning Tree Problem 170
Thomas Fischer and Peter Merz

Hybrid Numerical Optimization for Combinatorial Network Problems 185
Markus Chimani, Maria Kandyba, and Mike Preuss

Author Index 201

Author Index

Balaprakash, Prasanna 108
Beume, Nicola 140
Birattari, Mauro 108
Blum, Christian 123
Boudia, Mourad 16

Carić, Tonči 31
Chimani, Markus 185

Deutz, André 140
Duarte, Alexandre R. 82

Emmerich, Michael 140

Fischer, Thomas 170
Fosin, Juraj 31

Galić, Ante 31
Gold, Hrvoje 31

Kandyba, Maria 185

Lewis, Rhydian 96
Ljubić, Ivana 157
Lorena, Luiz Antonio Nogueira 69

Mastrolilli, Monaldo 123
Merz, Peter 1, 170

Nagano, Marcelo Seido 69

Pesek, Igor 57
Preuss, Mike 185
Prins, Christian 16

Reghioui, Mohamed 16
Reimann, Marc 45
Reinholz, Andreas 31
Ribeiro, Celso C. 82
Ribeiro Filho, Geraldo 69

Schaerf, Andrea 57
Stützle, Thomas 108

Urrutia, Sebastián 82

Wolf, Steffen 1

Žerovnik, Janez 57