Contents

A Biased Random-Key Genetic Algorithm for the Cloud Resource Management Problem .......................................................... 1
  Leonard Heilig, Eduardo Lalla-Ruiz, and Stefan Voß

A Computational Comparison of Different Algorithms for Very Large p-median Problems ...................................................... 13
  Pascal Rebreyend, Laurent Lemarchand, and Reinhardt Euler

A New Solution Representation for the Firefighter Problem ......................... 25
  Bin Hu, Andreas Windbichler, and Günther R. Raidl

A Variable Neighborhood Search Approach for the Interdependent Lock Scheduling Problem. .................................................. 36
  Matthias Prandstetter, Ulrike Ritzinger, Peter Schmidt, and Mario Ruthmair

A Variable Neighborhood Search for the Generalized Vehicle Routing Problem with Stochastic Demands ...................................... 48
  Benjamin Biesinger, Bin Hu, and Günther Raidl

An Iterated Local Search Algorithm for Solving the Orienteering Problem with Time Windows ............................................. 61
  Aldy Gunawan, Hoong Chuaun Lau, and Kun Lu

Analysis of Solution Quality of a Multiobjective Optimization-Based Evolutionary Algorithm for Knapsack Problem ...................... 74
  Jun He, Yong Wang, and Yuren Zhou

Evolving Deep Recurrent Neural Networks Using Ant Colony Optimization . . . 86
  Travis Desell, Sophine Clachar, James Higgins, and Brandon Wild

Hyper-heuristic Operator Selection and Acceptance Criteria .................... 99
  Richard J. Marshall, Mark Johnston, and Mengjie Zhang

Improving the Performance of the Germinal Center Artificial Immune System Using $c$-Dominance: A Multi-objective Knapsack Problem Case Study . . . . . . 114
  Ayush Joshi, Jonathan E. Rowe, and Christine Zarges

Mixing Network Extremal Optimization for Community Structure Detection ................................................................. 126
  Mihai Suciu, Rodica Ioana Lung, and Noémi Gaskó
Multi-start Iterated Local Search for the Mixed Fleet Vehicle Routing Problem with Heterogenous Electric Vehicles .................................................. 138
   Ons Sassi, W. Ramdane Cherif-Khettaf, and Ammar Oulamara

On the Complexity of Searching the Linear Ordering Problem Neighborhoods .................................................. 150
   Benjamin Correal and Philippe Galinier

Runtime Analysis of \((1 + 1)\) Evolutionary Algorithm Controlled with Q-learning Using Greedy Exploration Strategy on \texttt{ONEMAX+ZEROMAX} Problem .................................................. 160
   Denis Antipov, Maxim Buzdalov, and Benjamin Doerr

The New Memetic Algorithm \textit{HEAD} for Graph Coloring: An Easy Way for Managing Diversity .................................................. 173
   Laurent Moalic and Alexandre Gondran

The Sim-EA Algorithm with Operator Autoadaptation for the Multiobjective Firefighter Problem .................................................. 184
   Krzysztof Michalak

True Pareto Fronts for Multi-objective AI Planning Instances .................................................. 197
   Alexandre Quemy and Marc Schoenauer

Upper and Lower Bounds on Unrestricted Black-Box Complexity of \texttt{JUMP}_{n,\ell} .................................................. 209
   Maxim Buzdalov, Mikhail Kever, and Benjamin Doerr

Using Local Search to Evaluate Dispatching Rules in Dynamic Job Shop Scheduling .................................................. 222
   Rachel Hunt, Mark Johnston, and Mengjie Zhang

Author Index .................................................. 235
Evolutionary Computation in Combinatorial Optimization
15th European Conference, EvoCOP 2015, Copenhagen, Denmark, April 8–10, 2015, Proceedings
Ochoa, G.; Chicano, F. (Eds.)
2015, XII, 235 p. 41 illus., Softcover
ISBN: 978-3-319-16467-0