

Table of Contents

EvoCOP Contributions

Mutation Multiplicity in a Panmictic Two-Strategy Genetic Algorithm	1
<i>Adnan Acan</i>	
Solving the Vehicle Routing Problem by Using Cellular Genetic Algorithms	11
<i>Enrique Alba, Bernabé Dorronsoro</i>	
Landscape Regularity and Random Walks for the Job-Shop Scheduling Problem	21
<i>Christian Bierwirth, Dirk Christian Mattfeld, Jean-Paul Watson</i>	
A Comparison of Adaptive Operator Scheduling Methods on the Traveling Salesman Problem	31
<i>Wouter Boomsma</i>	
AntPacking – An Ant Colony Optimization Approach for the One-Dimensional Bin Packing Problem	41
<i>Boris Brugger, Karl F. Doerner, Richard F. Hartl, Marc Reimann</i>	
Scatter Search and Memetic Approaches to the Error Correcting Code Problem	51
<i>Carlos Cotta</i>	
A Hybrid Evolutionary Algorithm for Solving the Register Allocation Problem	62
<i>Betul Demiroz, Haluk Topcuoglu, Mahmut Kandemir</i>	
Parallel Ant Systems for the Capacitated Vehicle Routing Problem	72
<i>Karl F. Doerner, Richard F. Hartl, Guenter Kiechle, Maria Lucka, Marc Reimann</i>	
A Hierarchical Social Metaheuristic for the Max-Cut Problem	84
<i>Abraham Duarte, Felipe Fernández, Ángel Sánchez, Antonio Sanz</i>	
On the Structure of Sequential Search: Beyond “No Free Lunch”	95
<i>Thomas English</i>	
Dealing with Solution Diversity in an EA for Multiple Objective Decision Support – A Case Study	104
<i>Alvaro Gomes, Carlos Henggeler Antunes, Antonio Gomes Martins</i>	

A Study into Ant Colony Optimisation, Evolutionary Computation and Constraint Programming on Binary Constraint Satisfaction Problems	114
<i>Jano I. van Hemert, Christine Solnon</i>	
Binary Merge Model Representation of the Graph Colouring Problem ...	124
<i>István Juhos, Attila Tóth, Jano I. van Hemert</i>	
Hardness Prediction for the University Course Timetabling Problem	135
<i>Philipp Kostuch, Krzysztof Socha</i>	
Hybrid Estimation of Distribution Algorithm for Multiobjective Knapsack Problem	145
<i>Hui Li, Qingfu Zhang, Edward Tsang, John A. Ford</i>	
On the Use of Path Relinking for the ρ - Hub Median Problem	155
<i>Melquíades Pérez Pérez, Francisco Almeida Rodríguez, J. Marcos Moreno Vega</i>	
Solving a Real-World Glass Cutting Problem	165
<i>Jakob Puchinger, Günther R. Raidl, Gabriele Koller</i>	
Designing Reliable Communication Networks with a Genetic Algorithm Using a Repair Heuristic	177
<i>Dirk Reichelt, Franz Rothlauf, Peter Gmilkowsky</i>	
Improving Vehicle Routing Using a Customer Waiting Time Colony	188
<i>Samer Sa'adah, Peter Ross, Ben Paechter</i>	
New Benchmark Instances for the QAP and the Experimental Analysis of Algorithms	199
<i>Thomas Stützle, Susana Fernandes</i>	
Improving Edge Recombination through Alternate Inheritance and Greedy Manner	210
<i>Chuan-Kang Ting</i>	
Clustering Nominal and Numerical Data: A New Distance Concept for a Hybrid Genetic Algorithm	220
<i>Laetitia Vermeulen-Jourdan, Clarisse Dhaenens, El-Ghazali Talbi</i>	
On Search Space Symmetry in Partitioning Problems	230
<i>Benjamin Weinberg, El-Ghazali Talbi</i>	
Author Index	241