

EvoCOP2006 PROGRAMME

6th European Conference on Evolutionary Computation in Combinatorial Optimization

Monday 10 April Rome Room

- 0930-1100 **Plenary session:** invited speaker Dr Rich Terrile
- 1100-1120 Coffee break
- 1120-1250 **Graphs and networks:** CHAIR: Jens Gottlieb
A Comparative Study of Ant Colony Optimization and Reactive Search for Graph Matching Problems
Olfa Sammoud, Sébastien Sorlin, Christine Solnon, Khaled Ghédira
Improving Graph Colouring Algorithms and Heuristics Using a Novel Representation
István Juhos, Jano van Hemert
A Tabu Search Algorithm for Optimization of Gas Distribution Networks
Herbert de Mélo Duarte, Elizabeth Gouvêa Goldberg, Marco César Goldberg
- 1250-1415 Lunch
- 1415-1545 **Hybrid Algorithms I:** CHAIR: Franz Rothlauf
Hybrid Genetic Algorithm within Branch-and-Cut for the Minimum Graph Bisection Problem
Michael Armbruster, Marzena Fügenschuh, Christoph Helmborg, Nikolay Jetchev, Alexander Martin
Design of a Retail Chain Stocking up Policy with a Hybrid Evolutionary Algorithm
Anna I Esparcia-Alcázar, Lidia Lluch-Revert, Manuel Cardós, Ken Sharman, Carlos Andrés-Romano
A Memetic Algorithm with Bucket Elimination for the Still Life Problem
José E. Gallardo, Carlos Cotta, Antonio J. Fernández
- 1545-1600 Coffee break
- 1600-1730 **Routing:** CHAIR: Jano van Hemert
A Memetic Algorithm with Population Management (MA/PM) for the Capacitated Location-Routing Problem
Christian Prins, Caroline Prodhon, Roberto Wolfler Calvo
Fast EAX Algorithm Considering Population Diversity for Traveling Salesman Problems
Yuichi Nagata
Particle Swarm for the Traveling Salesman Problem
Elizabeth Gouvêa Goldberg, Givanaldo R. de Souza, Marco César Goldberg
- 1730-1900 **Conference poster session**
- 1930-2230 Conference Reception in conjunction with EvoMusArt exhibition at Artpool Art Research Centre (coaches depart at 1930)

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Tuesday 11 April Rome Room

- 0930-1100 **Hybrid Algorithms II:** CHAIR: Günther Raidl
A Hybrid VNS/Tabu Search Algorithm for Apportioning the European Parliament
Gabriel Villa, Sebastián Lozano, Jesús Racero, David Canca
Divide-and-Evolve: a New Memetic Scheme for Domain-Independent Temporal Planning
Marc Schoenauer, Pierre Savéant, Vincent Vidal
An efficient hybrid search algorithm for various optimization problems
Mario Vanhoucke
- 1100-1120 **Coffee break**
- 1120-1250 **Best papers:** CHAIR: Carlos Cotta (All three in this session are nominated for Best Paper Award)
The Trade Off between Diversity and Quality for Multi-objective Workforce Scheduling
Peter Cowling, Nic Colledge, Keshav Dahal, Stephen Remde
A Relation-Algebraic View on Evolutionary Algorithms for Some Graph Problems
Britta Kehden, Frank Neumann
A Memetic Algorithm for the Biobjective Minimum Spanning Tree Problem
Daniel A. M. Rocha, Elizabeth Gouvêa Goldberg, Marco César Goldberg
- 1250-1415 **Lunch**
- 1415-1545 **Structure of algorithms:** CHAIR: Christine Solnon
Effects of Scale-Free and Small-World Topologies on Binary Coded Self-Adaptive CEA
Mario Giacobini, Mike Preuss, Marco Tomassini
Hierarchical Cellular Genetic Algorithm
Stefan Janson, Enrique Alba, Bernabé Dorronsoro, Martin Middendorf
Evolving the Structure of the Particle Swarm Optimization Algorithms
Laura Diocsan, Mihai Oltean
- 1545-1600 **Coffee break**
- 1600-1730 **Scheduling:** CHAIR: Jakob Puchinger
Minimizing makespan on a single batch processing machine with nonidentical job sizes: a hybrid genetic approach
Ali Husseinzadeh Kashan, Behrooz Karimi, Fariborz Jolai
Multiobjective Scheduling of Jobs with Incompatible Families on Parallel Batch Machines
Dirk Reichelt, Lars Mönch
A Variable Neighbourhood Search Algorithm for Job Shop Scheduling Problems
Mehmet Sevkli, M. Emin Aydin
- 1900 - 2230 **Danube River cruise and Conference Dinner (coaches depart at 1900)**

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Wednesday 12 April Rome Room

- 0930-1100 **Selection problems:** CHAIR: Marc Schoenauer
Parametrized GRASP Heuristics for Three-Index Assignment
Armin Fügenschuh, Benjamin Höfler
The Core Concept for the Multidimensional Knapsack Problem
Jakob Puchinger, Günther R. Raidl, Ulrich Pferschy
New Computational Results for the Nurse Scheduling Problem: a Scatter Search Algorithm
Broos Maenhout, Mario Vanhoucke
- 1100-1115 **Coffee break**
- 1115-1230 **Plenary session:** invited speaker Prof Stefan Voss
- 1230-1245 **Conference closing, presentation of best paper awards**
- 1245-1400 **Lunch**