EvoCOP 2015 Programme

Thursday 9 April

0930-1110   **EvoCOP session 1 : Multi-objective Optimisation**

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

Improving the Performance of the Germinal Center Artificial Immune System using ϵ-dominance : A Multi-objective Knapsack Problem Case Study
Ayush Joshi, Christine Zarges, Jonathan Rowe

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

True Pareto Fronts for Multi-Objective AI Planning Instances
Alexandre Quemy, Marc Schoenauer

1135-1315   **EvoCOP session 2 : Routing and Location Problems**

A computational comparison of different algorithms for very large p-median problems
Pascal Rebreyend, Laurent Lemarchand, Reinhardt Eurler

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

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

Multi-Start Iterated Local Search for the Mixed Fleet Vehicle Routing Problem with Heterogenous Electric Vehicles
Ons Sassi, Wahiba Ramdane Cherif-Khettaf, Ammar Oulamara

1430-1610   **EvoCOP session 3 : Scheduling and Graph Problems**

A New Solution Representation for the Firefighter Problem
Bin Hu, Andreas Windbichler, Günther Raidl

A Variable Neighborhood Search Approach for the Interdependent Lock Scheduling Problem
Matthias Prandtstetter, Ulrike Ritzinger, Peter Schmidt, Mario Ruthmair

The New Memetic Algorithm HEAD for Graph Coloring: an Easy Way for Managing Diversity
Laurent Moalic, Alexandre Gondran

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

1630-1810   **EvoCOP session 4 : Other Applications and Theory**

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

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

Mixing Network Extremal Optimization for Community Structure Detection
Mihai Suciu, Rodica Ioana Lung, Noemi Gasko
Runtime Analysis of (1+1) Evolutionary Algorithm Controlled with Q-learning using Greedy Exploration Strategy on OneMax+ZeroMax Problem
Denis Antipov, Maxim Buzdalov, Benjamin Doerr

Friday 10 April

0930-1110 EvoCOP session 5 : Best-paper Candidates
Hyper-heuristic Operator Selection and Acceptance Criteria
Richard Marshall, Mark Johnston, Mengjie Zhang
On the Complexity of Searching the Linear Ordering Problem Neighborhoods
Benjamin Correal, Philippe Galinier
Upper and Lower Bounds on Unrestricted Black-Box Complexity of $Jump_{n,l}$
Maxim Buzdalov, Mikhail Kever, Benjamin Doerr