EvoCOP 2015 Sessions

Thursday 9 April 0930-1110

1. Scheduling and Graph Problems (Chair: Gabriela Ochoa)

- 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

Thursday 9 April 1135-1315

2. Multi-objective Optimisation (Chair: Marc Schoenauer)

- 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 $\epsilon$-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

Thursday 9 April 1430-1610

3. Routing and Location Problems (Chair: Hoong Chuin Lau)

- A Computational Comparison of Different Algorithms for Very Large p-median Problems
  Pascal Rebreyend, Laurent Lemarchand, Reinhardt Euler
- A Variable Neighborhood Search for the Generalized Vehicle Routing Problem with Stochastic Demands
  Benjamin Biesinger, Bin Hu, Günther Raidl
- Multi-Start Iterated Local Search for the Mixed Fleet Vehicle Routing Problem with Heterogenous Electric Vehicles
  Ons Sassi, Wahiba Ramdane Cherif-Khettaf, Ammar Oulamara
- An Iterated Local Search Algorithm for Solving the Orienteering Problem with Time Windows
Thursday 9 April  1630-1810

4. **Other Applications and Theory** (Chair: Bin Hu)
   - 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*

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5. **Best-paper Nominations** (Chair: Francisco Chicano)
   - 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 $\text{Jump}_{n,1}$
     *Maxim Buzdalov, Mikhail Kever, Benjamin Doerr*