

## 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 Eurler*
- **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, Sophie Clachar, James Higgins, Brandon Wild*

- **Mixing Network Extremal Optimization for Community Structure Detection**

*Mihai Suci, 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*