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## Program

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	<u>Monday</u> 12	<u>Tuesday</u> 13	<u>Wednesday</u> 14	<u>Thursday</u> 15
9am				
10am		<i>Invited</i> Rémi Munos	<i>Invited</i> Alex Freitas	Multi Objective Opt. 49
11am		Learning 18, 2 50, 3, 41	Applications 5, 45, 52 24, 58	32, 21, 28
12am				Max Clique Pb. 13, 15 Bayesian & Global Opt. 33, 59, 22
1pm				
2pm	Opening <i>Invited</i> David Corne	<i>Tutorial</i> Sébastien Verel	<i>Invited</i> Daniel Le Berre Dynamic Optimization 27, 26	<i>Tutorial</i> Thomas Stützle Manuel López-Ibáñez
3pm				
4pm	Algo. Selection & Config. 42			
5pm	36, 55, 60	Fitness Landscape 31, 48 16	Best Paper 54, 11, 44	Data Mining 46, 57 38
6pm				
				Gala Dinner

### Monday 12th January

2:00 - Opening

2:30 - Invited Speaker: David Corne - "Psychic machines: mind-reading with machine learning"

4:00 - Session : Algorithm Selection and Configuration

- 42 - From Sequential Algorithm Selection to Parallel Portfolio Selection  
*Marius Lindauer, Holger Hoos and Frank Hutter.*
- 36 - An Algorithm Selection Benchmark of the Container Pre-Marshalling Problem  
*Kevin Tierney and Yuri Malitsky.*
- 55 - ADVISER: A Web-based Algorithm Portfolio Devise  
*Mustafa Misir, Stephanus Daniel Handoko and Hoong Chuin Lau.*
- 60 - Grammar-based Generation of Stochastic Local Search Heuristics Through Automatic Algorithm Configuration Tools  
*Franco Mascia, Manuel López-Ibáñez, Jérémie Dubois-Lacoste, and Thomas Stützle*

### Tuesday 13th January

9:00 - Invited speaker: Rémi Munos - "The optimistic principle applied to function optimization and planning"

10:00 - Session: Learning

- 18 - Identifying best hyperparameters for deep architectures using random forests  
*Zhenzhen Li, Zhuoyao Zhong and Lianwen Jin.*
- 2 - Genetic Programming, Logic Design and Case-Based Reasoning for Obstacle Avoidance  
*Andy Keane.*
- 50 - Minimizing total tardiness on identical parallel machines using VNS with learning memory  
*Eduardo Lalla Ruiz and Stefan Voss.*
- 3 - Dynamic service selection with optimal stopping and 'trivial choice'  
*O. Skroch.*
- 41 - A Comparative Study on Self-Adaptive Differential Evolution Algorithms on Both Test Functions and a Real-World Problem  
*Shota Eguchi, Yuki Matsugano, Hirokazu Sakaguchi, Satoshi Ono, Hisato Fukuda, Ryo Furukawa and Hiroshi Kawasaki.*

2:00 - Tutorial: Sébastien Verel - "Fitness landscape: the metaphor and beyond."

4:30 - Session: Fitness Landscape

- 31 - **Empirical Analysis of Operators for Permutation Based Problems**  
*Pierre Desport, Matthieu Basseur, Adrien Goëffon, Frederic Lardeux and Frédéric Saubion.*
- 48 - **Fitness Landscape of the Factoradic Representation on the Permutation Flowshop Scheduling Problem**  
*Marie-Eleonore Marmion and Olivier Regnier-Coudert.*
- 16 - **Exploring non-neutral Landscapes with neutrality-based Local Search**  
*Matthieu Basseur, Adrien Goëffon and Hugo Traverson.*

### Wednesday 14th January

**9:00 - Invited speaker: Alex Freitas - "Automating the Design of Decision Tree Algorithms with Evolutionary Computation"**

#### 10:30 - Session: Applications

- 5 - **A Selector Operator Based Adaptive Large Neighborhood Search for the Covering Tour Problem**  
*Leticia Vargas, Nicolas Jozefowicz and Sandra Ulrich Ngueveu*
- 45 - **Metaheuristics for the Two-Dimensional Container Pre-Marshalling Problem**  
*Alan Tus, Andrea Rendl and Günther Raidl.*
- 52 - **Improving the State of the Art in Inexact TSP Solving using Per-Instance Algorithm Selection**  
*Lars Kotthoff, Pascal Kerschke, Holger Hoos and Heike Trautmann.*
- 24 - **A Biased Random Key Genetic Algorithm for the Multiple Knapsack Assignment Problem**  
*Eduardo Lalla Ruiz and Stefan Voss.*
- 58 - **An hybrid metaheuristic for the Unit Commitment Problem**  
*Sophie Jacquin, Laetitia Jourdan and Talbi El-Ghazali.*

**2:00 - Invited Speaker: Daniel Le Berre - "From Boolean Satisfaction To Boolean Optimization: Application To Dependency Management"**

#### 3:30 - Session: Dynamic Optimization

- 27 - **Annealing-Pareto Multi-Objective Multi-Armed Bandit Algorithm**  
*Saba Yahyaa, Madalina Drugan and Bernard Manderick.*
- 26 - **Pure-exploration Pareto front identification algorithms for stochastic environments**  
*Madalina Drugan and Ann Nowé.*

#### 4:30 - Session: Best paper

- 54 - **OSCAR: Online Selection of Algorithm Portfolios with Case Study on Memetic Algorithms**  
*Mustafa Misir, Stephanus Daniel Handoko and Hoong Chuin Lau.*
- 11 - **Generating Training Data for Learning Linear Composite Dispatching Rules for Scheduling**  
*Helga Ingimundardottir and Thomas Runarsson.*
- 44 - **Learning a hidden Markov model-based hyper-heuristic**  
*Willem Van Onsem, Bart Demeo and Patrick De Causmaecker.*

### Thursday 15th January

#### 9:00 - Session: Multi-Objective

- 49 - **Comparison of Parameter Control Mechanisms in Multi-objective Differential Evolution**  
*Martin Drozdik, Hernan Aguirre, Youhei Akimoto and Kiyoshi Tanaka.*
- 32 - **A practical case of the multiobjective knapsack problem: Design, modelling, tests and analysis**  
*Brahim Chabane, Matthieu Basseur and Jin-Kao Hao.*
- 21 - **A Bayesian approach to constrained multi-objective optimization**  
*Paul Feliot, Julien Bect and Emmanuel Vazquez.*
- 28 - **Pareto Fronts for MultiZeno Benchmarks**  
*Alexandre Quemy, Marc Schoenauer, Vincent Vidal, Johann Dréo and Pierre Savéant.*

#### 10:30 - Session Max-Clique Problems

- 13 - **Incremental MaxSAT Reasoning to Reduce Branches in a Branch-and-Bound Algorithm for MaxClique**  
*Chu-Min Li, Hua Jiang and Ru-Chu Xu.*
- 15 - **Reusing the same coloring in the child nodes of the search tree for the maximum clique problem**  
*Alexey Nikolaev, Mikhail Batsyn and Pablo San Segundo.*

#### 11:30 - Session Bayesian Optimization and Global Optimization

- 33 - **A warped kernel improving robustness in Bayesian optimization via random embeddings**  
*Mickael Binois, David Ginsbourger and Olivier Roustant.*
- 59 - **Approximate Bayesian Recursive Estimation**  
*Miroslav Karny*
- 22 - **Making EGO and CMA-ES Complementary for Global Optimization**  
*Hossein Mohammadi, Rodolphe Le Riche and Eric Touboul.*

**2:00 - Tutorial - Thomas Stutzle, Manuel Lopez-Ibanez - "Automatic Algorithm Configuration: From Parameter Tuning to Automatic Design"**

#### 4:30 Session: Data Mining

- 46 - **Programming by Optimisation meets Parameterised Algorithmics: A Case Study for Cluster Editing**  
*Sepp Hartung and Holger Hoos.*
- 57 - **MO-Mineclust: A framework for multi-objective Clustering**  
*Benjamin Fisset, Laetitia Jourdan and Clarisse Dhaenens.*
- 38 - **A Software Interface for Supporting the Application of Data Science to Optimisation**  
*Andrew J. Parkes, Ender Ozcan and Daniel Karapetyan.*