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WEDNESDAY, JUNE 1

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SESSION:

LOCAL SEARCHES AND HEURISTICS

CHAIR: PATRICK DE CAUSMAECKER

From	To	Speaker and Co-authors	Title
9.00	9.25	Eduardo Lalla Ruiz, Silvia Schwarze, <b>Stefan Voss</b>	<i>A Matheuristic Approach for the p-Cable Trench Problem</i>
9.25	9.50	<b>Nguyen Thi Thanh Dang</b> , Patrick De Causmaecker	<i>Characterization of neighborhood behaviours in a multi-neighborhood local search algorithm</i>
9.50	10.15	<b>Alejandro Arbelaez</b> , Barry O'Sullivan	<i>Learning a stopping criteria for Local Search</i>

10.15	10.45	Coffee Break	
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SESSION: MISCELLANEOUS

CHAIR: KEVIN TIERNEY

From	To	Speaker and Co-authors	Title
10.45	11.10	<b>Gilles Simonin</b> , Barry O'Sullivan	<i>Requests Management for Smartphone-based Matching Applications using a Multi-Agent Approach</i>
11.10	11.35	Yuri Malitsky, Marius Merschformann, Barry O'Sullivan, <b>Kevin Tierney</b>	<i>Structure-preserving Instance Generation</i>
11.35	12.00	<b>Steve Miller</b> , Joshua Knowles	<i>Population Fluctuation Promotes Cooperation in Networks</i>

12.00	12.30	Adjourn	
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Learning and  
Intelligent  
Optimization  
Conference

**LION 10**

Hotel Continental Terme, Ischia Island (Naples)

May 29-June 1, 2016

PROGRAM

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**LION 10** is organized by the Department of Mathematics and Applications “R. Caccioppoli”, University of Napoli FEDERICO II

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## Sponsoring Institutions

Dept. of Mathematics and Applications “R. Caccioppoli”, Univ. of Napoli FEDERICO II  
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## TUESDAY, MAY 31

SESSION:

ALGORITHM CONFIGURATION, ALGORITHM SELECTION, AND PERFORMANCE PREDICTION III

CHAIR: HEIKE TRAUTMANN

From	To	Speaker and Co-authors	Title
14.00	14.25	Mauro Brunato, <b>Roberto Battiti</b>	<i>Extreme Reactive Portfolio (XRP): Tuning an Algorithm Population for Global Optimization</i>
14.25	14.50	Lars Kotthoff, Ciaran McCreesh, <b>Christine Solnon</b>	<i>Portfolios of Subgraph Isomorphism Algorithms</i>
14.50	15.15	<b>Marius Lindauer</b> , Rolf-David Bergdoll, Frank Hutter	<i>An Empirical Study of Per-Instance Algorithm Scheduling</i>

15.15 15.45 **Coffee Break**

TUTORIAL TALK: MEINOLF SELLMANN

CHAIR: JOAQUIN VANSCHOREN

From	To	Title
15.45	16.45	<i>Automatic algorithm configuration</i>

SESSION:

ALGORITHM CONFIGURATION, ALGORITHM SELECTION, AND PERFORMANCE PREDICTION IV

CHAIR: THOMAS STÜTZLE

From	To	Speaker and Co-authors	Title
16.45	17.10	Lin Xu, Ashiqur Khudabukhsh, <b>Holger H. Hoos</b> , Kevin Leyton-Brown	<i>Quantifying the Similarity of Algorithm Configurations</i>
17.10	17.35	<b>Jakob Bossek</b> , Heike Trautmann	<i>Evolving Instances for Maximizing Performance Differences of State-of-The-Art Inexact TSP Solvers</i>
17.35	18.00	<b>Jakob Richter</b> , Helena Kotthaus, Bernd Bischl, Peter Marwedel, Jörg Rahnenführer, Michel Lang	<i>Faster Model Based Optimization through Resource Aware Scheduling Strategies</i>

21.00: **Banquet**

**TUESDAY, MAY 31**

**SESSION:**

**ALGORITHM CONFIGURATION, ALGORITHM SELECTION, AND PERFORMANCE PREDICTION I**

**CHAIR: HOLGER HOOS**

From	To	Speaker and Co-authors	Title
9.00	9.25	Aldy Gunawan, Hoong Chuin Lau, <b>Mustafa Misir</b>	<i>Designing and comparing multiple portfolios of parameter configurations for online algorithm selection</i>
9.25	9.50	<b>Teck-Hou Teng</b> , Stephanus Daniel Handoko, Hoong Chuin Lau	<i>Self-Organizing Neural Network for Adaptive Operator Selection in Evolutionary Search</i>
9.50	10.15	<b>Seongsoo Moon</b> , Mary Inaba	<i>Dynamic strategy to diversify search using history map in parallel solving</i>

10.15	10.45	<b>Coffee Break</b>
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**KEYNOTE TALK: BISTRA DILKINA**

**CHAIR: HOLGER HOOS**

From	To	Title
10.45	11.45	<i>Learning to Branch in Mixed Integer Programming</i>

**SESSION:**

**ALGORITHM CONFIGURATION, ALGORITHM SELECTION, AND PERFORMANCE PREDICTION II**

**CHAIR: BERND BISCHL**

From	To	Speaker and Co-authors	Title
11.45	12.10	Zongxu Mu, <b>Holger H. Hoos</b> , Thomas Stützle	<i>The Impact of Automated Algorithm Configuration on the Scaling Behaviour of State-of-the-art Inexact TSP Solvers</i>
12.10	12.35	<b>Aymeric Blot</b> , Holger H. Hoos, Laetitia Jourdan, Marie-Éléonore Marmion, Heike Trautmann	<i>MO-ParamILS: A Multi-objective Automatic Algorithm Configuration Framework</i>
12.35	13.00	Nacim Belkhir, Johann Dreio, Pierre Saveant, Marc Schoenauer	<i>Surrogate Assisted Feature Computation for Continuous Problems</i>

13.00	14.00	<b>Lunch Break</b>
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		<b>18.30: Welcome Cocktail</b>
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**SUNDAY, MAY 29**

**Conference Desk**

From	To	
15.00	18.00	<i>Registration</i>

		<b>18.30: Welcome Cocktail</b>
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**MONDAY, MAY 30**

8.30	9.00	<b>Conference Opening</b>
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**SESSION:**  
**INTELLIGENT OPTIMIZATION IN HEALTH, E-HEALTH, BIOINFORMATICS, BIOMEDICINE AND NEUROSCIENCES**

**CHAIR: MEINOLF SELLMANN**

From	To	Speaker and Co-authors	Title
9.00	9.25	Valerio Cestarelli, Giulia Fiscon, <b>Giovanni Felici</b> , Paola Bertolazzi, Emanuel Weitschek	<i>CAMUR: Knowledge extraction from RNA-seq cancer data through equivalent classification rules</i>
9.25	9.50	Giulia Fiscon, <b>Emanuel Weitschek</b> , Paola Bertolazzi, Giovanni Felici	<i>Identification of Multiple Small Genomic Subsequences in Biological Strings</i>
9.50	10.15	<b>Lucien Mousin</b> , Laetitia Jourdan, Marie-Éléonore Marmion, Clarisse Dhaenens	<i>Feature Selection using Tabu Search with Learning Memory: Learning Tabu Search</i>

10.15	10.45	<b>Coffee Break</b>
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**TUTORIAL TALK: GIOVANNI FELICI, EMANUEL WEITSCHKE**

**CHAIR: PAOLA FESTA**

From	To	Title
10.45	11.45	<i>Learning Algorithms and Bioinformatics</i>

**SESSION:**  
**SCHEDULING AND REAL-TIME APPLICATIONS**

**CHAIR: GIANPAOLO GHIANI**

From	To	Speaker and Co-authors	Title
11.45	12.10	Roberto Amadini, Maurizio Gabbrilli, <b>Jacopo Mauro</b>	<i>Parallelizing Constraint Solvers for Hard RCPSP Instances</i>
12.10	12.35	Pedro Abreu, Carlos Soares, Rui Camacho	<i>Inductive Programming to Understand the Behavior of Simple Heuristics for Job-Shop Scheduling</i>
12.35	13.00	Robinson Duque, Juan Francisco Diaz, <b>Alejandro Arbelaez Rodriguez</b>	<i>Constraint Programming and Machine Learning for Interactive Soccer Analysis</i>

13.00	14.00	<b>Lunch Break</b>
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**MONDAY, MAY 30**

**SESSION:**  
**STATIC AND DYNAMIC INTEGER AND MIXED INTEGER PROGRAMMING**  
**CHAIR: STEFAN VOSS**

From	To	Speaker and Co-authors	Title
14.00	14.25	<b>Laura Climent</b> , Barry O'Sullivan	<i>Bounding the Search Space of the Population Harvest Cutting Problem with Multiple Size Stock Selection</i>
14.25	14.50	<b>Gregor Hendel</b>	<i>Ranking accuracy of learned branching information in Mixed Integer Programming</i>
14.50	15.15	Tommaso Adamo, Tobia Calogiuri, Gianpaolo Ghiani, Antonio Grieco, Emanuela Guerriero, <b>Emanuele Manni</b>	<i>Neighborhood synthesis from an ensemble of MIP and CP models</i>
15.15	15.40	Marlin Ulmer, <b>Stefan Voss</b>	<i>Risk-Averse Anticipation for Dynamic Vehicle Routing</i>

15.40	16.10	<b>Coffee Break</b>
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**SESSION:**  
**GENOPT GENERALIZATION-BASED CONTEST IN GLOBAL OPTIMIZATION**  
**CHAIR: YAROSLAV SERGEYEV**

From	To	Speaker and Co-authors	Title
16.10	16.20	<b>Roberto Battiti</b> , Yaroslav Sergeyev, Mauro Brunato, Dmitri Kvasov	<i>Genopt: GENERALIZATION-BASED CONTEST IN GLOBAL OPTIMIZATION, design of the contest and award ceremony</i>
16.20	16.40	Eduardo Segredo, <b>Eduardo Lalla-Ruiz</b> , Emma Hart, Ben Paechter, Stefan Voss	<i>Hybridisation of Evolutionary Algorithms through Hyper-heuristics for Global Continuous Optimisation</i>
16.40	17.00	<b>Konstantin Barkalov</b> , Alexander Sysoyev, Ilya Lebedev, Vladislav Sovrasov	<i>Solving GENOPT problems with the use of ExaMin solver</i>
17.00	17.20	<b>Tahir Emre Kalayci</b>	<i>Solving GENOPT Functions with the Reactive Affine Shaker using irace for Parameter Tuning</i>