

## THURSDAY 19th November 2020 - Morning

TIME	SESSION	SPEAKERS & AUTHORS	TITLE
09:00 – 09:20	OPENING	Massimiliano Vasile, Bogdan Filipič, Edmondo Minisci	
09:20 – 10:20	S1 – Methods and Applications – Hybrid Methods	Chair: Mario Pavone	
09:20 – 09:40		Francesco Marchetti and Edmondo Minisci	A Hybrid Neural Network-Genetic Programming Intelligent Control Approach
09:40 – 10:00		Pavel Borisovsky and Yulia Kovalenko	A Memetic Algorithm with Parallel Local Search for Flowshop Scheduling Problems
10:00 – 10:20		Margarita Rebolledo, Ruxandra Stoean, A.E. Eiben and Thomas Bartz-Beielstein	Hybrid Variable Selection and Support Vector Regression for Gas Sensor Optimization
10:20 – 10:40	COFFEE BREAK		
10:40 – 11:20	S1 – Methods and Applications – Swarm and Crowd Methods	Chair: Mario Pavone	
10:40 – 11:00		Alireza Mirshamsi, Simone Godio, Amin Nobakhti, Stefano Primatesta, Fabio Dovis and Giorgio Guglieri	A 3D Path Planning Algorithm based on PSO for Autonomous UAVs Navigation
11:00 – 11:20		Carolina Crespi, Georgia Fargetta, Mario Pavone, Rocco A. Scollo and Laura Scrimali	A Game Theory Approach for Crowd Evacuation Modelling
11:20 – 11:40	COFFEE BREAK		
11:40 – 12:40	KEYNOTE	<a href="#">Gabriela Ochoa</a> (Chair: Edmondo Minisci)	<a href="#">Recent Advances in Local Optima and Search Trajectory Networks</a>
12:40 – 14:00	LUNCH BREAK		

## THURSDAY 19th November 2020 - Afternoon

TIME	SESSION	SPEAKERS & AUTHORS	TITLE
14:00 – 15:20	<b>S2 – Analysis of Problems and Algorithms</b>	<b>Chair:</b> Annalisa Riccardi	
14:00 – 14:20		Marco A. Contreras-Cruz, Gabriela Ochoa and Juan P. Ramirez-Paredes	Synthetic vs. Real-world Continuous Landscapes: A Local Optima Networks View
14:20 – 14:40		Alexander Hagg, Mike Preuss, Alexander Asteroth and Thomas Baeck	An Analysis of Phenotypic Diversity in Multi-Solution Optimization
14:40 – 15:00		Rodrigo C. A. F. Pontes, Grasielle Duarte and Leonardo Goliatt	Migration Guided by a Performance Index in Heterogeneous Island Models
15:00 – 15:20		Jörg Stork, Martin Zaefferer, Thomas Bartz-Beielstein and A. E. Eiben	Understanding the Behavior of Reinforcement Learning Agents
15:20 – 15:40	<b>COFFEE BREAK</b>		
15:40 – 16:40	<b>S3 – Swarms and Multi-player Intelligence</b>	<b>Chair:</b> Wolfgang Konen	
15:40 – 16:00		Nadia Nedjah, Luigi Maciel Ribeiro and Luiza de Macedo Mourelle	Communication Optimization for Efficient Dynamic Task Allocation in Swarm Robotics
16:00 – 16:20		Kaelan Engholdt, H. David Mathias and Annie S. Wu	Variable response duration promotes self-organization in decentralized swarms
16:20 – 16:40		Wolfgang Konen and Samineh Bagheri	Reinforcement Learning for N-Player Games: The Importance of Final Adaptation
16:40 – 17:00	<b>Wrap-up of the first day</b>	ALL	

## FRIDAY 20th November 2020 - Morning

TIME	SESSION	SPEAKERS & AUTHORS	TITLE
09:20 – 10:20	<b>S4 – Applications of Evolutionary Optimisation</b>	<b>Chair:</b> Edmondo Minisci	
09:20 – 09:40		Bárbara Arizmendi Gutiérrez, Alberto della Noce, Mariachiara Gallia and Alberto Guardone	Optimization of a Thermal Ice Protection System by means of a Genetic Algorithm
09:40 – 10:00		Maxim Buzdalov, Sergey Kolyubin, Artem Egorov and Ivan Borisov	Optimizing Robotic Cheetah Leg Parameters using Evolutionary Algorithms
10:00 – 10:20		Alfeu Martinho, Celso Ribeiro, Yulia Gorodetskaya, Tales Fonseca and Leonardo Goliatt	Extreme Learning Machine with evolutionary parameter tuning applied to forecast the daily natural flow at Cahora Bassa dam, Mozambique
10:20 – 10:40	<b>COFFEE BREAK</b>		
10:40 – 11:40	<b>S5 – New Methods</b>	<b>Chair:</b> Marco Evangelos Biancolini	
10:40 – 11:00		Yifan He, Claus Aranha and Tetsuya Sakurai	Parameter Evolution Self-Adaptive Strategy and its Application for Cuckoo Search
11:00 – 11:20		Stefano Porziani and Marco Evangelos Biancolini	Bio-Inspired Optimization Based on BGM and Mesh Morphing Surface Sculpting
11:20 – 11:40		Markus Thill, Wolfgang Konen and Thomas Baeck	Time Series Encodings with Temporal Convolutional Networks
11:40-12:00	<b>COFFEE BREAK</b>		
12:00 – 13:00	<b>KEYNOTE</b>	<a href="#">Enrique Alba</a> (Chair: Bogdan Filipič)	<a href="#">Bioinspired Algorithms for Smart Cities</a>
13:00 – 14:20	<b>LUNCH BREAK</b>		

## FRIDAY 20th November 2020 - Afternoon

TIME	SESSION	SPEAKERS & AUTHORS	TITLE
14:20 – 15:20	<b>S6 – Multi-objective Methods and Applications</b>	<b>Chair:</b> Gregor Papa	
14:20 – 14:40		Margarita Antoniou, Gašper Petelin and Gregor Papa	On Formulating the Ground Scheduling Problem as a Multi-objective Bilevel Problem
14:40 – 15:00		Susanne Rosenthal	Diversity Promoting Strategies in a Multi-and Many-objective Evolutionary Algorithm for Molecular Optimization
15:00 – 15:20		Aljoša Vodopija, Vito Janko, Mitja Luštrek and Bogdan Filipič	Constrained Multiobjective Optimization for the Design of Energy-Efficient Context Recognition Systems
15:20 – 15:40	<b>COFFEE BREAK</b>		
15:40 – 16:40	<b>S7 – Methods for Multi-objective and Large-Scale problems</b>	<b>Chair:</b> Massimiliano Vasile	
15:40 – 16:00		Gianluca Filippi and Massimiliano Vasile	Inflationary Differential Evolution for Constrained Multi-Objective Optimisation Problems
16:00 – 16:20		Atanu Mazumdar, Tinkle Chugh, Jussi Hakanen and Kaisa Miettinen	An Interactive Framework for Offline Data-Driven Multiobjective Optimization
16:20 – 16:40		Dani Irawan, Margarita Antoniou, Boris Naujoks and Gregor Papa	Refining the CC-RDG3 Algorithm with Increasing Population Scheme and Persistent Covariance Matrix
16:40 – 17:00	<b>CLOSING</b>	Massimiliano Vasile, Bogdan Filipič, Edmondo Minisci	