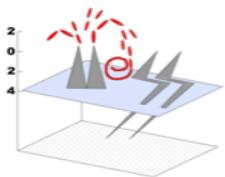


**Metaheuristics Summer School
15-18 July 2024 – Catania, Italy**

**AUTOMATED DEEP LEARNING
MEETS
HIGH PERFORMANCE COMPUTING**

DIRECTORS:

Salvatore Greco, University of Catania, Italy
Mario Pavone, University of Catania, Italy
Andrea Schaerf, University of Udine, Italy
El-Ghazali Talbi, University of Lille1, France
Daniele Vigo, University of Bologna, Italy



MESS 2024



AIRO
ASSOCIAZIONE ITALIANA DI RICERCA OPERATIVA



**Università
di Catania**

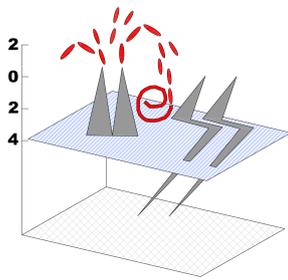


EURO

THE ASSOCIATION OF
EUROPEAN OPERATIONAL
RESEARCH SOCIETIES



**EU/ME
METAHEURISTICS**



3rd Metaheuristics Summer School

~ Auto Deep Learning meets High-Performance Computing ~

15-18 July 2024 - Catania, Italy

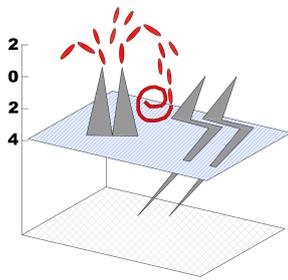
Program

Monday, 15th July

8:30 – 9:00	Registration
9:00 – 9:30	Opening Ceremony
9:30 – 11:00	El-Ghazali Talbi <i>Metaheuristics for neural architecture search and hyperparameter optimization</i>
11:00 – 11:30	Coffee break
11:30 – 13:00	Eric Medvet <i>Metaheuristics for policy search in continuous control</i>
13:00 – 15:00	Free Time for Lunch
15:00 – 16:30	Marco Gori <i>HAMILTONIAN LEARNING: Foundations of Lifelong Learning</i>
16:30 – 17:00	Competition: presentation
17:00 – 18:00	Oral Session #1

Tuesday, 16th July

8:30 – 9:00	Registration
9:00 – 10:30	Aaron Klein <i>Introduction into AutoML: Hyperparameter Optimization</i>
10:30 – 11:00	Coffee Break
11:00 – 12:30	David Salinas <i>Multi-objective optimization</i>
12:30 – 13:15	Competition: discussion & ideas exchanging
13:15 – 15:00	Lunch with Arancino
15:00 – 16:30	El-Ghazali Talbi <i>Parallel and multi-objective metaheuristics for neural architecture search and hyperparameter optimization</i>
16:30 – 17:30	Oral Session #2



3rd Metaheuristics Summer School

~ Auto Deep Learning meets High-Performance Computing ~

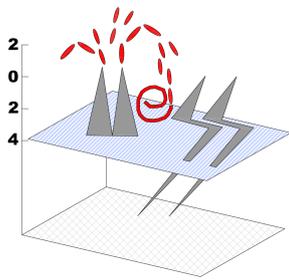
15-18 July 2024 - Catania, Italy

Wednesday, 17th July

9:30 – 11:00	David Salinas <i>Speeding-up Hyperparameter Optimization with transfer and meta learning</i>
11:00 – 11:30	Coffee Break
11:30 – 13:00	Marco Gori <i>HAMILTONIAN LEARNING: Case studies</i>
13:00 – 15:00	Free Time for Lunch
15:00 – 16:00	Oral Session #3
17:30 – 17:45	Group Photo
17:45 – 23:30	Social Tour & Dinner

Thursday, 18th July

9:30 – 11:00	Aaron Klein <i>Introduction into AutoML: Neural Architecture Search</i>
11:00 – 11:30	Coffee Break
11:30 – 13:00	Eric Medvet <i>Beyond policy search: optimizing body and brain of simulated robotic agents</i>
13:00 – 15:00	Free Time for Lunch
15:00 – 16:30	Competition: presentation proposals
16:30 – 17:00	Closing session and future remarks.



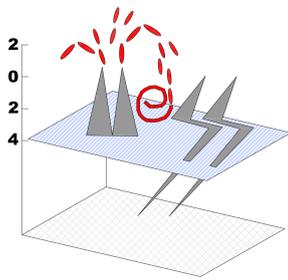
3rd Metaheuristics Summer School

~ Auto Deep Learning meets High-
Performance Computing ~

15-18 July 2024 - Catania, Italy

Oral Presentations Session III – slot:15:00-16:00

- 15:00 – 15:20 ***Comparison of Python Metaheuristic Packages***
Vojtěch Vávra
Prague University of Economics and Business, The Czech Republic
- 15:20 – 15:40 ***Efficient Heuristics for Finding Minimal Feedback Arc Sets in Big Data Challenges***
Claudia Cavallaro
University of Catania, Italy
- 15:40 – 16:00 ***Dynamic Metaheuristics: Enhancing Real-Time Problem Solving with Machine Learning Integration***
Alessio Mezzina
University of Catania, Italy

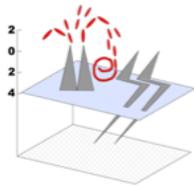


3rd Metaheuristics Summer School

~ Auto Deep Learning meets High-Performance Computing ~

15-18 July 2024 - Catania, Italy

Sponsors & Patronage



MESS 2024



Università di Catania



THE ASSOCIATION OF EUROPEAN OPERATIONAL RESEARCH SOCIETIES

EU/ME
METAHEURISTICS

