



UNIMOL-UNISA WORKSHOP

HEURISTICS AND METAHEURISTICS: FOUNDATION, METHODOLOGY AND APPLICATIONS

June 19 - 21, 2017

University of Molise: Isernia Campus



University of Molise

University of Salerno

Chairs: C. Cerrone, R. Cerulli, A. Di Nola, M. Transirico

Monday, June 19 - Isernia Campus

12.00 – 13.00 *Registration*

Lunch

Session 1 (Chair: C. Cerrone)

14.45 – 15.00 **C. Cerrone, R. Cerulli, A. Di Nola, M. Transirico**: Opening.

15.00 – 15.20 **Gaudioso Manlio**: Walking back and forth between continuous and integer optimization

15.20 – 15.40 **Oliveto Rocco**: Defect prediction as a multi-objective optimization problem

15.40 – 16.00 **Capobianco Giovanni**: Progettazione, sviluppo e testing di una metodologia per il riconoscimento di microparticelle presenti in immagini volumetriche di tessuti legnosi.

16.00 – 16.20 **Pentangelo Rosa**: A flow formulation for the close-enough arc routing problem

16.20 – 16.50 *Coffee Break*

Session 2 (Chair: R. Cerulli)

16.50 – 17.10 **D'Ambrosio Ciriaco**: Best and Worst Values of the Optimal Cost of the Interval Transportation Problem

17.10 – 17.30 **Vitale Gaetano**: Logical Methods for Artificial Neural Network

17.30 – 17.50 **Archetti Claudia**: Heuristics for the traveling salesman problem with release dates and completion time minimization

17.50 – 18.10 **Cerrone Carmine**: The Minimum Labeling Hamiltonian Cycle Problem

18.10 – 18.40 Informal discussion.

20.30 *Dinner*

Tuesday, June 20 – Building Bonanni, Agnone (IS)

08.50 *Departure by bus from Isernia cathedral to Agnone*

Session 1 (Chair: A. Di Nola)

10.00 – 10.20 **Rinaldi Giovanni**: Grafi Chimera e Quantum Annealing

10.20 – 10.40 **Lapenta Serafina**: From logic to analysis via Riesz MV-algebras

10.40 – 11.00 **Xin Yanan**: Build Trust Index for Volunteered Geographic Information: A Case Study of Safe cast

11.00 – 11.20 **Laureana Federica**: On the Forward Shortest Path Tour Problem

11.20 – 11.50 *Coffee Break*

Session 2 (Chair: M. Transirico)

11.50 – 12.10 **Raiconi Andrea**: Maximum lifetime problem with interference constraints

12.10 – 12.30 **Monurrò Sara**: Dirichlet problem for noncoercive elliptic equations

12.30 – 12.50 **Squillante Massimo**: Bayesian Networks and Multi-Criteria Decision Methods for systemic risk

12.50 – 13.10 **Rampone Salvatore**: Computational intelligence and smart communities

Lunch

14.15 – 14.50 Informal discussion.

15.00 *Social Trip*

17.30 *Return by bus to Isernia*

20.30 *Social Dinner*

Wednesday, June 21

10.00 – 10.45 Round table on proposed models and future interactions between the participants.

10.45 – 11.00 **C. Cerrone, R. Cerulli, A. Di Nola, M. Transirico**: Closing.

Organizing Committee:

F. Carrabs, C. Cerrone, C. D'Ambrosio, F. Laureana, R. Pentangelo, A. Raiconi.



Head of Mathematics Department: **M. Transirico**

Head of M³A Laboratory: **R. Cerulli**

Head of Biosciences and Territory Department: **G. Musci**

