AIROYoung Dissertation Award 2024

The AIROYoung board

Resort & SPA Le Dune –Badesi, Sardinia, September 12, 2024
International Conference on Optimization and Decision Science 2024

A Ph.D. thesis award organized by AIROYoung
to select the **best doctoral thesis in operations research**,
defended at any Italian university
between July 1, 2023, and June 30, 2024

Main topics of this third edition

- Combinatorial optimization
- Logistics
- Nonlinear optimization
- Optimization under uncertainty
- Routing
- Scheduling
- Telecommunications
- Transportation

A few numbers

- 16 applications
- 38 referees
- 4 finalists
- 1 winner, to be announced during the closing session of ODS2024
- Prize: 250 €

More details on the evaluation process and results

Round 1 (31 referees)

Each thesis was evaluated by 2 reviewers, who assigned a score between 0 and 100 according to the following criteria:

Pertinence (max 15)	14.44
Scientific contribution (max 35)	27.64
Impact on related fields (max 25)	20.72
Quality of publications (max 15)	11.33
Writing quality (max 10)	8.6
Average score (max 100)	**81.73**

More details on the evaluation process and results

Round 2 (3 referees)

3 additional judges compared the evaluations and updated the corresponding scores by:
- adjusting the weights given to individual criteria scores from Round 1, or
- assigning a new score if the initial score did not align with the assessment of the other theses.

More details on the evaluation process and results

Round 3 (4 referees)

3 points assigned by a judging panel of 4 referees to the best work presented at the AYDA session during ODS 2024

Finalists 2024

Alice Calamita

Location problems with covering constraints: models and solution approaches for the telecommunication

Pierluigi Mansueto

Pareto Front Reconstruction of Multi-Objective Optimization Problems

Elena Rener

Single Machine Rescheduling for New Orders. Properties, complexity and solution algorithms

Roberto Maria Rosati

Multi-Neighborhood Search for Combinatorial Optimization

Alice Calamita

Location problems with covering constraints: models and solution approaches for the telecommunication

Pertinence (max 15)	15
Scientific contribution (max 35)	33.5
Impact on related fields (max 25)	24.5
Quality of publications (max 15)	13.5
Writing quality (max 10)	9.7
Average score (max 100)	**96.375**
Additional point Round 3	**+3**
Final score	**99.375**