



**AIRO**  
ASSOCIAZIONE ITALIANA DI RICERCA OPERATIVA  
OPTIMIZATION AND DECISION SCIENCE

**AIRO**  
**YOUNG**

## AIROYoung Dissertation Award 2025

The AIROYoung board

Casa Schuster – Milano, Italy, September 4, 2025

International Conference on Optimization and Decision Science 2025

## A few numbers

- 8 applications
- 22 referees
- 4 finalists
- 1 winner, to be announced during the closing session of ODS2025
- Prize: 500 €

# The evaluation process

## Round 1:

Each thesis is evaluated by 2 reviewers, who assign up to 85 points across four criteria (relevance 15, scientific contribution 35, impact & interdisciplinarity 25, writing quality 10)

## Round 2:

A second committee reviews all reports, compares the theses, updates scores where appropriate, and awards up to **15 additional points** for publications derived from the thesis

## Round 3:

During the ODS 2025 special session, a third committee evaluates each finalist's presentation and assigns up to **10 points**, considering presentation quality and communication skills.

## Round 1 & 2:

All the submitted theses demonstrated high quality, as reflected in the average evaluations provided by the reviewers:

- Pertinence of the topic: **14.3/15**
- Scientific contribution : **27.5/35**
- Impact and interdisciplinarity: **20.8/25**
- Writing quality: **8.6/10**
- Publications: **8.3/15**

# The jury of Round 3



**Alessandro Agnetis**

University of Siena

**Sara Mattia**

National Research Council of Italy (CNR)



**Mauro Passacantando**

University of Milano-Bicocca

**Elena Tanfani**

University of Genoa



# Finalists



## Alberto Boggio Tomasz

Optimisation and Interdiction Problems for Network Safety

## Andrea Brillì

Derivative-Free Optimization: worst-case complexity for Line- Search methods and a Mixed Penalty-Barrier approach.



## Davide Croci

Advanced optimization algorithms for last-mile logistics

## Daniele Patria

Multiobjective integer and mixed-integer non-linear programming: exact approaches and applications



We are finally ready to announce the winner of  
the AIRO Young Dissertation Award 2025

# The winner of AYDA 2025



## Andrea Brilli

Derivative-Free Optimization: worst-case complexity for Line- Search methods and a Mixed Penalty-Barrier approach.

<b>Pertinence (max 15)</b>	15
<b>Scientific contribution (max 35)</b>	31
<b>Impact on related fields (max 25)</b>	22.5
<b>Writing quality (max 10)</b>	10
<b>Quality of publications (max 15)</b>	9
<b>Average score (max 100)</b>	<b>89.5</b>
<b>Additional point during ODS (round 3)</b>	<b>+8.5</b>
<b>Final score (max 110)</b>	<b>98.0</b>