Daniele Meli
Updated to November 12, 2026

Personal information

- **Name**: Mr. Daniele Meli
- **Birth date**: 16th January 1994
- **Open Researcher and Contributor ID (ORCID)**: 0000-0002-3162-388X
- **Institutional web page**: https://www.di.univr.it/?ent=persona&id=46391

Research expertise and interests

- Neurosymbolic artificial intelligence
- Safe planning and learning for autonomous agents
- Mobile robotics (rovers, water and aerial drones)
- Explainable artificial intelligence
- Time series forecasting and anomaly detection

Work and Education Experience

Jan 2022 - present	**Tenure track researcher and assistant professor** Department of Computer Science, University of Verona, Italy
Dec 2020 - Dec 2021	**Post-doctoral researcher** Department of Computer Science, University of Verona, Italy
2017 - 2021	**PhD in Computer Science** University of Verona, Italy
2015 - 2017	**Master's Degree in Automation Engineering** Politecnico di Bari, Italy

Academic experience

Teaching

University of Verona, Italy

2023 - ongoing	**Explainable AI** (Master's degree in Artificial Intelligence)	48 hours / year
2022 - ongoing	**Mobile robotics** (Master's degrees in Robotics and AI)	12 hours / year
2022 - 2023	**Knowledge representation** (Master's degree in AI)	24 hours
2021 - 2022	**C Programming** (Bachelor's degree in Computer Science)	12 hours

Institutional activities

2024-ongoing Member of the commission for student practices evaluation (e.g., evaluation of traineeship activities and ECTS acquisition) for the Master's degree in AI at the University of Verona
2024-ongoing Member of PhD council in Computer Science, University of Verona
2023-ongoing Member of AQ commission for quality assessment of the Master's degree in AI at the University of Verona
2022-ongoing Member of teaching council in Computer Science, University of Verona

PhD supervisor for 1 student; member of PhD evaluation committee for $>$ 10 students; supervisor / co-supervisor of $>$ 10 Bachelor and Master's students in Computer Science, Robotics and AI

Project activities

2026 - 2028 PI for Trentino Regional project on the development of AI technologies for autonomous aquatic drones applied in environmental monitoring ($\approx$ 91.000 euros)
2024 - 2027 WP leader for Veneto Regional project VALORLEGNO, on the development of AI technologies for wood manufacturing and distribution ($\approx$ 3.800.000 euros)
2022 - 2024 Non-tenure track researcher (RTD-A) on PON Ricerca e Innovazione (DM 1062/2021) *Automatic planning for autonomous robotic platforms involved in environmental monitoring*
Topic: Neurosymbolic task planning and learning under uncertainty
Company partner: Witted Srl (Trento, Italy, https://www.witted.eco/)
2022-2023 Scientific responsible for 1-year research contract (25000 euros)
Topic: Efficient collision-free inverse kinematics and planning for hyper-redundant robotic manipulators
Company partner: Hibot Corporation (Tokyo, JP, https://hibot.co.jp/)
2017-2021 Research collaborator for ERC Horizon 2020 project **Autonomous robotic surgery (ARS** -https://www.ars-project.eu/)
Topic: Symbolic and neurosymbolic task planning and learning for autonomous robotic surgery with logic programming

Organization or Participation to research groups

2022 - present Member of Intelligent Systems Lab (ISLa - https://isla-lab.github.io/)
Department of Computer Science, University of Verona
2017 - ongoing Member of ALTAIR Robotics Lab (https://metropolis.scienze.univr.it/team/)
Department of Engineering for Innovation Medicine, University of Verona
Sep - Dec 2019 Visiting at Cognitive Robots and Systems Lab (https://www.cs.bham.ac.uk/ sridharm/SEARL.html)
School of Computer Science, University of Birmingham, UK
Mar - Sep 2017 Visiting student at the Mechatronic and Automation Center (https://zema.de/), Saarbrucken, DE

Editorial and Reviewing Services

- **Editorial Board Member**, *Journal of Artificial Intelligence Research (JAIR)* - since 2026 (https://www.jair.org/index.php/jair/about/editorialTeam).
- **Associate Editor**, *IEEE Transactions on Medical Robotics and Bionics* - since 2026
- **Associate Editor**, *IEEE Robotics and Automation Letters* - since 2026
- **Associate Editor**, *Intelligenza Artificiale* - since 2026 (https://journals.sagepub.com/home/INA).

- **Associate Editor**, IEEE IROS 2026.
- **Topic Coordinator**, special issue **Merging symbolic and data-driven AI for robot autonomy** (https://www.frontiersin.org/research-topics/50600/merging-symbolic-and-data-driven-ai-for-robot-autonomy), *Frontiers in Robotics and AI*. Co-editors: Dr. Nikos Katzouris (Demokritos Research Center, GR); Prof. Simona Perri (University of Calabria, IT); Prof. Mohan Sridharan (University of Edinburgh, UK).
- **Review Editor**, *Frontiers in Robotics and AI*, section *Computational Intelligence in Robotics* (https://loop.frontiersin.org/people/1577338/overview).
- **Reviewer** for major international journals and conferences in robotics, AI, and machine learning, including:
  - *IEEE Transactions on Robotics (T-RO)*
  - *IEEE Robotics and Automation Letters (RA-L)*
  - *IEEE Transactions on Neural Networks and Learning Systems (TNNLS)*
  - *Robotics and Autonomous Systems (RAS)*
  - *Artificial Intelligence Journal (AIJ)*
  - *IEEE ICRA*, *IEEE IROS*, *RSS*, *CoRL*

Speaker at conferences and symposia

2026 **AAMAS Conference 2026**
Workshop: Optimization and Learning for Multi-Agent Systems (OptLearnMAS) (https://optlearnmas.github.io/#invited_talks)
Topic: Towards Safe and Explainable Multi-Agent Learning

2025 **AAAI Conference 2025**
Workshop: Generalization in Planning (GenPlan) (https://aair-lab.github.io/genplan25/)
Topic: Symbolic planning in the neural age

2022 **IEEE International Conference on Intelligent and Robotic Systems (IROS)**
Workshop: Robotic manipulation of deformable objects - challenges in perception, planning and control (https://romado-workshop.github.io/ROMADO2022/)
Topic: Autonomy for deformable soft tissue manipulation in robotic surgery

2020 **IEEE International Conference on Intelligent and Robotic Systems (IROS)**
Workshop: Cognitive robotic surgery
Topic: Learning action rules in surgery
Co-speaker: Paolo Fiorini

Organization of community events

2026	Workshop at IROS conference, on "AI meets control for resilient and reliable robot planning (AIM-Ctrl)" - https://sites.google.com/view/aim-ctrl/home-page
2026	Workshop at IJCAI conference, on "Neuro-Symbolic Intelligence for LLMs and Autonomous Agents (NILA)" - https://2026.ijcai.org/accepted-workshops/
2026	Tutorial at AAMAS conference, on "Neuro-Symbolic Decision Making For Autonomous Agents" - https://cyprusconferences.org/aamas2026/tutorials/#neuro-symbolic
2024-ongoing	Organizer of the summer school on Control of Surgical Robots (COSUR - https://cras-eu.org/cosur-2026/)
2025	Chair at AAAI conference - journal track session
2024	Chair at IEEE CASE conference - session on anomaly detection

Industrial partnerships and affiliations

Companies: Witted Srl (Trento, Italy, https://www.witted.eco/); Hibot Corporation (Tokyo, JP, https://hibot.co.jp/).
Scientific affiliations: member of the Italian working group for Robotics 4.0 (AI for manufacturing systems, http://dclab.poliba.it/i-rim-working-group-on-robotics-4-0/).

Research awards

2023 Top-3 main-track paper
Paper title: Learning logic specifications for soft policy guidance in POMCP
Conference: ACM Autonomous Agents and Multi-Agent Systems

Publications

Please check the public track of records:

- **Scopus**: https://www.scopus.com/authid/detail.uri?authorId=57209605337
- **Google Scholar**: https://scholar.google.com/citations?user=VuHRVzcAAAAJ&hl=en