

Discussion Papers at AIXIA 2026: Preface

Marco Maratea¹, Francesco Santini²

¹University of Calabria, Rende, Italy

²University of Perugia, Perugia, Italy

Preface

This volume contains the proceedings of the Discussion Papers track of the 24th International Conference of the Italian Association for Artificial Intelligence (AIXIA 2026), the primary scientific event of the Associazione Italiana per l'Intelligenza Artificiale (AIXIA). AIXIA is a nonprofit organization dedicated to promoting the advancement of Artificial Intelligence within academic, social, and industrial contexts. The association established its series of international conferences in 1991, initially organizing an event every two years, and then moving to an annual schedule from 2015.

AIXIA 2026 was held in Perugia, Italy, on October 6–9, 2026, hosted by the University of Perugia at the Auditorium San Francesco, in the historic city center.

The conference welcomed contributions on Machine Learning, Language Models, Search and Planning, Knowledge Representation, Reasoning and Argumentation, Constraint Satisfaction and Optimization, Natural Language Processing, Robotics and Perception, Autonomous Agents and Multi-agent Systems, and Ethical and Cultural Issues in Artificial Intelligence, as well as on their application to Cybersecurity, Sustainability, Aging and Health Care, Education, Cultural Heritage, Manufacturing, Transportation, and Commerce and Recommendation Systems.

Discussion papers are original contributions written for this track: position papers or discussions of results the authors have published elsewhere and cited in the paper.

The track received fifteen submissions by the deadline of July 10, 2026, and notifications were sent on July 28, 2026. Each submission was reviewed by three members of the Program Committee, and acceptance was based solely on the quality and relevance of the contribution. Ten discussion papers were accepted for presentation at the conference, and all of them appear in this volume as short papers, with the consent of their authors.

We express our gratitude to the institutions and sponsors that supported AIXIA 2026, namely the Department of Mathematics and Computer Science of the University of Perugia, Intelligientiae, DLVSys-tem, Sviluppumbria, the FAIR project, Regione Umbria, and BUP; to the AIXIA Executive Board for its steadfast assistance; and to the University of Perugia for granting us the opportunity to host the conference in its facilities. We also wish to thank all the authors for submitting and presenting their short papers, and the members of the Program Committee for their efforts in producing fair and thorough evaluations of the submitted papers. Finally, we thank all those who, in various capacities, contributed to the success of AIXIA 2026.

September 2026 Marco Maratea
 Francesco Santini

Declaration on Generative AI

The author(s) have not employed any Generative AI tools.

AIXIA 2026 Discussion Papers, 24th International Conference of the Italian Association for Artificial Intelligence, Perugia, Italy, 2026

✉ marco.maratea@unical.it (M. Maratea); francesco.santini@unipg.it (F. Santini)



© 2026 Copyright for this paper by its authors. Use permitted under Creative Commons License Attribution 4.0 International (CC BY 4.0).

AixIA 2026 — Organization

General Chair

Stefano Bistarelli

University of Perugia, Italy

Program Committee Chairs

Marco Maratea

University of Calabria, Italy

Francesco Santini

University of Perugia, Italy

Workshop Chairs

Marco Baioletti

University of Perugia, Italy

Antonella Guzzo

University of Calabria, Italy

Tutorial Chairs

Andrea Formisano

University of Udine, Italy

Carlo Taticchi

University of Perugia, Italy

Doctoral Consortium Chairs

Stefano Ferilli

University of Bari, Italy

Valentina Poggioni

University of Perugia, Italy

Travel Grant Chairs

Gabriele Costante

University of Perugia, Italy

Nicola Gigante

Free University of Bozen-Bolzano, Italy

Industry Liaison and Public Events Chairs

Gabriella Cortellessa

National Research Council of Italy, Italy

Ivan Mercanti

University of Perugia, Italy

Publicity Chair

Valentina Franzoni

University of Perugia, Italy

Local Arrangement Chairs

Gabriele Costante

University of Perugia, Italy

Valentina Franzoni

University of Perugia, Italy

Web and Social Chairs

Marco Cuccarini

University of Perugia, Italy

Chiara Luchini

University of Perugia, Italy

Proceedings Chairs

Marco Maratea

University of Calabria, Italy

Francesco Santini

University of Perugia, Italy

Program Committee

Carlo Adornetto	University of Calabria, Italy
Francesco Amigoni	Politecnico di Milano, Italy
Alessandro Artale	Free University of Bozen-Bolzano, Italy
Vincenzo Auletta	Università di Salerno, Italy
Marco Baiocchi	Università degli Studi di Perugia, Italy
Pietro Baroni	University of Brescia, Italy
Roberto Basili	University of Roma Tor Vergata, Italy
Sebastiano Battiato	University of Catania, Italy
Elena Bellodi	University of Ferrara, Italy
Gloria Beraldo	CNR-ISTC, Italy
Stefano Berretti	University of Firenze, Italy
Stefano Bistarelli	Università di Perugia, Italy
Domenico Bloisi	University of Basilicata, Italy
Stefano Borgo	CNR-ISTC, Italy
Stefano Cagnoni	University of Parma, Italy
Roberta Calegari	Alma Mater Studiorum–Università di Bologna, Italy
Francesco Calimeri	University of Calabria, Italy
Alberto Casagrande	Università degli Studi di Udine, Italy
Antonio Chella	Università di Palermo, Italy
Federico Chesani	University of Bologna, Italy
Alessandro Cimatti	Fondazione Bruno Kessler, Italy
Flavio S. Correa Da Silva	University of São Paulo, Brazil
Stefania Costantini	Università degli Studi dell'Aquila, Italy
Claudio Di Ciccio	Utrecht University, The Netherlands
Francesco M. Donini	Università della Tuscia, Italy
Stefano Ferilli	Università degli Studi di Bari, Italy
Diodato Ferraioli	Università degli Studi di Salerno, Italy
Johannes K. Fichte	Linköping University, Sweden
Alberto Finzi	Università di Napoli Federico II, Italy
Fabio Fioravanti	University of Chieti-Pescara, Italy
Andrea Formisano	Università di Udine, Italy
Fabio Gaspiretti	Roma Tre University, Italy
Marco Gavanelli	University of Ferrara, Italy
Massimiliano Giacomini	University of Brescia, Italy
Nicola Gigante	Free University of Bozen-Bolzano, Italy
Enrico Giunchiglia	Università degli Studi di Genova, Italy
Gianluigi Greco	University of Calabria, Italy
Davide Lanti	Free University of Bozen-Bolzano, Italy
Domenico Lembo	Sapienza University of Rome, Italy
Maurizio Lenzerini	Sapienza University of Rome, Italy
Nicola Leone	University of Calabria, Italy
Francesca Alessandra Lisi	Università degli Studi di Bari “Aldo Moro”, Italy
Marin Lujak	University Rey Juan Carlos, Spain
Dario Malchiodi	University of Milan, Italy
Marco Maratea	Università della Calabria, Italy
Giuseppe Mazzotta	University of Calabria, Italy
Alessio Micheli	University of Pisa, Italy
Marina Mongiello	Politecnico di Bari, Italy
Marco Montali	Free University of Bozen-Bolzano, Italy

Aniello Murano	University of Naples Federico II, Italy
Angelo Oddi	CNR-ISTC, Italy
Andrea Orlandini	CNR-ISTC, Italy
Roberto Pirrone	Università degli Studi di Palermo, Italy
Valentina Poggioni	Università degli Studi di Perugia, Italy
Luigi Portinale	Università del Piemonte Orientale "A. Avogadro", Italy
Luca Pulina	University of Sassari, Italy
Riccardo Rasconi	CNR-ISTC, Italy
Francesco Ricca	University of Calabria, Italy
Fabrizio Riguzzi	University of Ferrara, Italy
Andrea Roli	University of Bologna, Italy
Marco Rospocher	Università degli Studi di Verona, Italy
Marco Roveri	University of Trento, Italy
Salvatore Ruggieri	Università di Pisa, Italy
Giuseppe Sansonetti	Roma Tre University, Italy
Francesco Santini	University of Perugia, Italy
Luigi Sauro	University of Naples Federico II, Italy
Domenico Fabio Savo	University of Bergamo, Italy
Enrico Scala	Università di Brescia, Italy
Francesco Scarcello	University of Calabria, Italy
Filippo Sciarrone	Universitas Mercatorum, Italy
Fabio Stella	University of Milano-Bicocca, Italy
Carlo Taticchi	Università degli Studi di Perugia, Italy
Mauro Vallati	University of Huddersfield, UK
Eloisa Vargiu	Cetaqua Water Technology Centre, Spain
Serena Villata	CNRS, France