

Preface to the Proceedings of the 1st International Workshop on AI Learning, Education And Practice (AI-LEAP 2026)

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Abstract

The 1st edition of the International Workshop on AI Learning, Education And Practice (AI-LEAP 2026) took place on October 8–9, 2026, in Perugia, Italy, co-located with AIxIA 2026.

Originating from the merger of the “edu4AI: Education for Artificial Intelligence” and “AIxEdu: Artificial Intelligence Systems in Education” workshops, AI-LEAP addressed two complementary perspectives: the use of AI technologies to support teaching, learning, and assessment, and education about AI, including literacy, critical understanding, and societal and ethical implications. Its main aim was to bring together and promote discussions among researchers, educators, and practitioners on tools, methodologies, and educational approaches that support effective, responsible, and inclusive learning in the AI era.

The proceedings of the workshop include 11 contributions that were peer-reviewed and selected from 14 submissions.

Keywords

AI in education, Education about AI, AI literacy, Generative AI, Responsible AI, Inclusive education

1. Introduction

Artificial Intelligence (AI) is reshaping education by enabling new forms of teaching, learning, and assessment. From intelligent systems and generative models to human-AI collaboration, these technologies are transforming both educational practices and the skills required in the AI era.

AI-LEAP aims to bring together researchers, educators, and practitioners to explore the intersection of AI and education, focusing both on the use of AI to support education and on education about AI. It fosters interdisciplinary dialogue on how AI can effectively, responsibly, and inclusively support learning.

The workshop originates from the fusion of the “edu4AI: Education for Artificial Intelligence” and the “AIxEdu: Artificial Intelligence Systems in Education” workshops.

The workshop’s topics of interest can be organized into two main tracks.

AI-LEAP 2026 - 1st International Workshop on AI Learning, Education And Practice, co-located with AIxIA 2026, University of Perugia, October 2026

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Track 1. Focusing on AI technologies, models, and computational approaches enabling educational applications. Includes topics such as:

- AI systems in educational contexts
- Design and development of AI applications for education
- Open-source LLMs and AI models for education
- Intelligent tutoring, personalization, and adaptive learning systems
- Learning analytics and automated feedback systems
- Automated assessment and evaluation methods
- Human-AI collaboration in learning environments
- Explainable Artificial Intelligence in Education
- Scalable AI education platforms and infrastructures
- Challenges and opportunities in deploying AI in education
- AI systems for supporting teachers and learners
- Human-Robot Interaction in Education

Track 2. Focusing on AI literacy, pedagogical approaches for teaching AI, critical understanding of AI technologies, and their societal and ethical implications. Includes topics such as:

- Teaching methodologies for AI education
- Innovative learning approaches and classroom practices
- AI literacy, awareness, and educational resources
- Curriculum design and teacher training programs
- Tools for explaining AI and correcting misconceptions
- Skills development for the AI era
- Educational tools for understanding and interacting with AI systems
- Human-centered interaction with AI in learning contexts
- Ethical, inclusive, and responsible use of AI
- AI for inclusive education and societal impact (including SDG4)
- AI education across diverse populations (e.g., elderly learners)

The workshop received 14 submissions, of which 11 were accepted for publication. Each submission received three reviews. The review process was single-blind: authors' identities were visible to reviewers, while reviewers' identities were not disclosed to authors. Conflicts of interest were taken into account when assigning submissions to reviewers. The submission deadline was August 4, 2026, and the review deadline was September 1, 2026. Authors were notified of the acceptance decisions on September 3, 2026.

2. Organization and committees

The organizers and program chairs of the workshop are:

- Gabriella Casalino, University of Bari, Italy.
- Alessio Ferrato, Roma Tre University, Rome, Italy.
- Carla Limongelli, Roma Tre University, Rome, Italy.
- Elisa Marengo, University of Torino, Italy.
- Michela Ponticorvo, Federico II University, Naples, Italy.
- Davide Taibi, Institute for Education Technology, National Research Council of Italy.
- Marco Temperini, Sapienza University of Rome, Italy.
- Manuel Striani, University of Piemonte Orientale, Alessandria, Italy.

The program committee members were:

- Fabrizio Benelli, Universitas Mercatorum, Rome, Italy
- Salvatore Calderaro, University of Palermo, Italy
- Sara Capecchi, Università degli Studi di Torino, Italy
- Laura Cesaro, Università degli Studi di Padova, Italy
- Emiliano Del Gobbo, Università "Federico II" di Napoli, Italy
- Elena Dell'Aquila, Università Pegaso, Italy
- Onofrio Gigliotta, Università "Federico II" di Napoli, Italy
- Stephan Keller, TU Graz – Graz University of Technology, Graz, Austria
- Alessio Manfredi, Università "Federico II" di Napoli, Italy
- Francesca Martignone, Università del Piemonte Orientale, Italy
- Clara Nobile, Università di Macerata, Italy
- Andrea Piccione, Équipe Formativa Territoriale per il Piemonte, Italy
- Riccardo Treglia, Universitas Mercatorum, Italy
- Ariel Vercelli, Instituto de Humanidades – INHUS / Universidad Nacional de Mar del Plata, Argentine Republic
- Pierpaolo Vittorini, Università dell'Aquila, Italy
- Gianluca Zaza, University of Bari Aldo Moro, Bari, Italy
- Ermanno Zuccarini, Università di Modena e Reggio Emilia, Modena, Italy

Declaration on Generative AI

During the preparation of this preface, the editors used OpenAI Codex to assist in drafting the abstract based on workshop information and introductory text supplied by the editors. The editors reviewed and edited the AI-assisted text and take full responsibility for the content of this preface.