Special Issue

Recent Developments in E-learning: Learning and Teaching AI, Learning and Teaching with AI

Message from the Guest Editors

This Special Issue aims to explore the dynamic and rapidly evolving field of learning and teaching in contexts transformed by the widespread integration of artificial intelligence (AI). The interplay between AI and education presents unprecedented opportunities and challenges, demanding a profound understanding of how AI technologies can be incorporated into educational settings to enhance learning outcomes and teaching methodologies. Teachers are producing new materials and enhancing their educational creativity with AI, while students increasingly rely on AI-generated answers. Educators use AI to supplement students' knowledge, and students expect appropriate support and answers from AI tools. Contributors to this Special Issue will therefore focus on two seemingly distinct aspects. On the one hand, it is essential to discuss how to teach and learn AI tools and techniques across all educational levels and disciplines, as these have become indispensable for many professions, beyond those related to ICT. On the other hand, it is equally important to explore the use of AI in teaching and learning, not only to harness its potential but also to manage its side effects.

Guest Editors

Dr. Andrea Molinari
Department of Industrial Engineering, University of Trento, Via Inama, 5, 38122 Trento, Italy

Dr. Paolo Bouquet
Department of Information Engineering and Computer Science, University of Trento, Via Inama, 5, 38122 Trento, Italy

Deadline for manuscript submissions

20 February 2026

Applied Sciences

mdpi.com/journal/
applsci

About the Journal

Message from the Editor-in-Chief

As the world of science becomes ever more specialized, researchers may lose themselves in the deep forest of the ever increasing number of subfields being created. This open access journal Applied Sciences has been started to link these subfields, so researchers can cut through the forest and see the surrounding, or quite distant fields and subfields to help develop his/her own research even further with the aid of this multi-dimensional network.

Editor-in-Chief

Prof. Dr. Giulio Nicola Cerullo
Dipartimento di Fisica, Politecnico di Milano, Piazza L. da Vinci 32, 20133 Milano, Italy

Author Benefits

Open Access:
free for readers, with article processing charges (APC) paid by authors or their institutions.

High Visibility:
indexed within Scopus, SCIE (Web of Science), Ei Compendex, Inspec, CAPlus / SciFinder, and other databases.

Journal Rank:
JCR - Q2 (Engineering, Multidisciplinary) / CiteScore - Q1 (General Engineering)