



Unlocking the Potential of AI for Advancing Scientific Research

Guest Editor:

Dr. Luoyi Fu

Department of Computer Science
and Engineering, Shanghai Jiao
Tong University, Shanghai
200240, China

Deadline for manuscript
submissions:

20 July 2024

Message from the Guest Editor

AI continues to advance at an unprecedented pace and has become a transformative force in various domains, including science. After its emergence as a game-changing technology with the potential to revolutionize scientific research, AI-powered approaches are enabling breakthroughs in various scientific domains from natural language processing to computational biology. However, there are still challenges and limitations of AI technology, including issues related to field-specific professionalism, interpretability, ethical considerations, benchmarking, and human–AI collaboration.

We welcome original research papers, reviews, case studies, and position papers from researchers, practitioners, and interdisciplinary collaborations. Topics of interest include, but are not limited to:

- Natural language processing for scientific text analysis, text generation, and summarization;
- Applications of AI technology in scientific domains, such as drug discovery, climate modeling, genomics, and materials science;
- Human–AI collaboration, including approaches for combining human expertise with AI capabilities to accelerate scientific discovery.





an Open Access Journal by MDPI

Editor-in-Chief

Prof. Dr. Giulio Nicola Cerullo

Dipartimento di Fisica,
Politecnico di Milano, Piazza L.
da Vinci 32, 20133 Milano, Italy

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.

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), Inspec, CAPlus / SciFinder, and other databases.

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

Contact Us

Applied Sciences Editorial Office
MDPI, St. Alban-Anlage 66
4052 Basel, Switzerland

Tel: +41 61 683 77 34
www.mdpi.com

mdpi.com/journal/applsci
applsci@mdpi.com
[X@Applsci](https://twitter.com/Applsci)