

Special Issue

Unlocking Scientific Insights: Data Mining, Large Models, and AI-Driven Discovery

Message from the Guest Editor

This Special Issue seeks to explore how innovative AI techniques and methodologies can significantly improve the way scientific data are mined, analyzed, and interpreted. The scope of this Special Issue includes, but is not limited to, the following topics:

- **AI-driven data mining techniques:** Exploring novel algorithms for identifying patterns, correlations, and anomalies in large scientific datasets, focusing on high-dimensional, noisy, and incomplete data typical in scientific research.
- **Large models:** The role of large language models (LLMs), deep neural networks, and other advanced AI models in processing, analyzing, and generating scientific insights from diverse sources of data such as text, images, and time-series data.
- **AI for scientific domains:** Practical applications of AI in key scientific areas, such as drug discovery, climate science, genomics, and materials science.
- **Interdisciplinary collaboration:** Developing frameworks for integrating AI with domain-specific knowledge to enhance human-AI collaboration and foster cross-disciplinary research.

Guest Editor

Dr. Luoyi Fu

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

Deadline for manuscript submissions

20 June 2026



Applied Sciences

an Open Access Journal
by MDPI

Impact Factor 2.5
CiteScore 5.5



mdpi.com/si/233837

Applied Sciences
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
applsci@mdpi.com

[mdpi.com/journal/
applsci](https://mdpi.com/journal/applsci)





Applied Sciences

an Open Access Journal
by MDPI

Impact Factor 2.5
CiteScore 5.5



[mdpi.com/journal/
applsci](https://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, Embase, CAPIus / SciFinder, and other databases.

Journal Rank:

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