

## Special Issue

# Explainable AI (XAI) for Information Processing

### Message from the Guest Editors

Artificial intelligence (AI) is one of the most promising fields today and has applications in many different research areas, especially because of the large amount of available data. However, while many current AI algorithms exhibit high performance, many are incomprehensible in terms of explainability. The concept of a “black box” in machine learning is used in cases where the final decision of the AI algorithm cannot be explained. There are several areas where the adoption of AI methods requires better explainability of the provided outputs (for example, clinical diagnoses). The different paradigms underlying this problem fall under the umbrella of so-called explainable artificial intelligence (XAI). The term XAI is related to algorithms and techniques that apply AI in a way that the solution can be understood by human users. This Special Issue aims not only to review the latest research progress in the field of XAI but also to propose solutions to some of the above-mentioned problems and their application in different research areas.

---

### Guest Editors

Dr. Esteban García-Cuesta

Dr. Manuel Castillo-Cara

Dr. Ricardo Aler Mur

---

### Deadline for manuscript submissions

closed (30 September 2023)



## Applied Sciences

---

an Open Access Journal  
by MDPI

---

Impact Factor 2.5  
CiteScore 5.5



[mdpi.com/si/144771](https://mdpi.com/si/144771)

*Applied Sciences*  
Editorial Office  
MDPI, Grosspeteranlage 5  
4052 Basel, Switzerland  
Tel: +41 61 683 77 34  
[appls@mdpi.com](mailto:appls@mdpi.com)

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

[appls](https://appls.mdpi.com)





# 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, CAPlus / SciFinder, and other databases.

#### Journal Rank:

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