



## Artificial Neural Networks, Theory, Methods and Applications

Guest Editor:

**Prof. Pegalajar Cuellar Manuel**

Department of Computer Science  
and Artificial Intelligence,  
University of Granada, 18010  
Granada, Spain

Deadline for manuscript  
submissions:

**closed (31 July 2022)**

### Message from the Guest Editor

An artificial neural network (ANN) is the piece of a computing system designed to simulate the way in which the human brain analyzes and processes information. The artificial neural network has seen a sharp increase in interest in recent years and is successfully applied across an extraordinary range of problem domains, such as handwriting recognition, image compression, the traveling salesman problem, and stock exchange prediction. The computing world has a great deal to gain from the neural network.

We invite researchers and investigators to contribute their original research or review articles to this Special Issue, the aim of which is to bring together academics and industrial practitioners to exchange and discuss the latest theory, methods, and applications of the ANN. Papers addressing, but not limited to, the following topics will be considered for publication.

Keywords : artificial neural networks ; deep learning ; machine learning ; pattern recognition





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

## Contact Us

---

Applied Sciences Editorial Office  
MDPI, Grosspeteranlage 5  
4052 Basel, Switzerland

Tel: +41 61 683 77 34  
[www.mdpi.com](http://www.mdpi.com)

[mdpi.com/journal/applsci](http://mdpi.com/journal/applsci)  
[applsci@mdpi.com](mailto:applsci@mdpi.com)  
[X@Applsci](#)