



## Deep Learning in Image Processing and Scientific Computing

Guest Editors:

**Dr. Xuqing Wu**

Department of Information  
Science Technology, University of  
Houston, Houston, TX 77004, USA

**Dr. Siyu Huang**

School of Computing, Clemson  
University, Clemson, SC 29631,  
USA

Deadline for manuscript  
submissions:

**31 August 2025**

### Message from the Guest Editors

Recent advancements in the application of deep neural networks in large-scale visual recognition challenges, as well as in other domains, has led to an explosion of research in the field of deep learning. Deep-learning-related research is revolutionizing various industries and domains. Some ongoing research areas include the theoretical understanding of generalization, interpretable deep learning, robustness and adversarial attacks, training efficiency and transfer learning, etc.

The primary objective of this Special Issue is to address cutting-edge advancements in the rapidly evolving field of deep learning. In particular, we invite authors to submit papers that showcase the robustness and generalizability of their models or methodologies. By gathering such diverse and innovative works, we aim to present a compelling collection that captures the forefront of deep learning research.

Potential topics include, but are not limited to, the following: general deep learning, deep learning architectures, trustworthy deep learning, image and video understanding, image and video synthesis, deep learning in imaging applications and deep learning for scientific computing.





## Editor-in-Chief

### **Prof. Dr. Francisco Chiclana**

School of Computer Science and  
Informatics, De Montfort  
University, The Gateway,  
Leicester LE1 9BH, UK

## Message from the Editor-in-Chief

The journal *Mathematics* publishes high-quality, refereed papers that treat both pure and applied mathematics. The journal highlights articles devoted to the mathematical treatment of questions arising in physics, chemistry, biology, statistics, finance, computer science, engineering and sociology, particularly those that stress analytical/algebraic aspects and novel problems and their solutions. One of the missions of the journal is to serve mathematicians and scientists through the prompt publication of significant advances in any branch of science and technology, and to provide a forum for the discussion of new scientific developments.

## 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), RePEc, and other databases.

**Journal Rank:** JCR - Q1 (*Mathematics*) / CiteScore - Q1 (*General Mathematics*)

## Contact Us

---

*Mathematics* Editorial Office  
MDPI, St. Alban-Anlage 66  
4052 Basel, Switzerland

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

[mdpi.com/journal/mathematics](http://mdpi.com/journal/mathematics)  
[mathematics@mdpi.com](mailto:mathematics@mdpi.com)  
[X@MathematicsMDPI](https://twitter.com/MathematicsMDPI)