

# Special Issue

## Applications of Computational Intelligence in Medical Image Processing

### Message from the Guest Editors

This Special Issue focuses on the transformative role of computational methods in medical imaging, including machine learning, deep learning, and artificial intelligence. This Special Issue seeks to collect pioneering research that employs these advanced techniques to address challenges in acquiring, analyzing, and interpreting medical images. We welcome submissions on topics such as developing and applying machine learning models, deep learning architectures, and other AI-based algorithms for image segmentation, classification, enhancement, and reconstruction. By gathering a diverse range of studies, this Special Issue aims to advance the understanding and application of computational intelligence to improve diagnostic accuracy, treatment planning, and overall patient care in medical settings.

- Computer-aided detection and diagnosis;
- Deep learning for medical image analysis;
- Integration of multimodal imaging techniques;
- Real-time image processing and analysis;
- Computational methods for image registration and fusion;
- Applications of generative models in medical imaging.

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### Guest Editors

Dr. Jingxin Liu

School of AI and Advanced Computing, Xi'an Jiaotong-Liverpool University, Suzhou 215400, China

Dr. Jionglong Su

School of AI and Advanced Computing, Xi'an Jiaotong-Liverpool University, Suzhou 215400, China

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### Deadline for manuscript submissions

closed (20 May 2025)



## Mathematics

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

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## About the Journal

### 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.

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### Editor-in-Chief

Prof. Dr. Francisco Chiclana

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

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