Special Issue

New Advances in Medical Image Processing

Message from the Guest Editor

Medical image processing a cornerstone of modern healthcare, profoundly influencing disease diagnosis, treatment planning, and biomedical research. Rapid technological advances and growing medical data create new opportunities to improve diagnostic precision and patient outcomes. From foundational tasks such as image reconstruction, quality enhancement, and multi-modal fusion to emerging challenges like cross-modal learning, personalized diagnostics, and interpretable AI systems, recent technological advances are continuously expanding the scope and depth of medical image applications. Meanwhile, the integration of deep learning, transformer-based architectures, and self-supervised paradigms is reshaping the landscape of medical image analysis, enabling more intelligent, automated, and clinically viable diagnostic tools. This Special Issue focuses on cutting-edge developments in medical image processing, particularly segmentation, classification, and large-scale models. We welcome contributions addressing theoretical foundations and practical applications to overcome current challenges in this evolving field.

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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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