

Special Issue

Magnetic Resonance Imaging: Mathematical Foundations and Applications

Message from the Guest Editor

Magnetic Resonance Imaging (MRI) is one of the most powerful and versatile non-invasive imaging modalities used in clinical and biomedical research. The mathematical modeling and computational strategies behind MRI have been central to these advancements.

In particular, recent progress in image reconstruction, multi-contrast and dynamic imaging, quantitative parameter estimation, and motion correction has increasingly relied on sophisticated mathematical models and algorithms. These developments highlight the pivotal role of mathematical innovation in enhancing image quality, accelerating acquisition, and improving the robustness of MRI systems, establishing this field as a dynamic and rapidly evolving area of interdisciplinary research.

We are pleased to invite you to contribute to this Special Issue. The focus of this Special Issue aligns with the Applied Mathematics section of the Mathematics journal, emphasizing the development, analysis, and implementation of mathematical tools with clear relevance to the field of imaging science.

Guest Editor

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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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