

Special Issue

Data Mining and Algorithms Applied in Image Processing

Message from the Guest Editors

Recent advances in mathematical modeling and learning algorithms are reshaping high-dimensional imaging across multi-/hyperspectral fusion, remote sensing, and multi-contrast MRI. This Special Issue seeks contributions that connect rigorous mathematics—including low-rank models, transform-domain and learnable priors, variational and inverse-problem formulations, and optimization methods (e.g., ADMM, plug-and-play, implicit/explicit deep unfolding)—with scalable data-driven architectures such as attention/Mamba-style operators, neural operators, and diffusion models. We welcome works spanning theoretical guarantees (e.g., convergence, stability, identifiability), algorithmic innovations with interpretable structures, and application-oriented studies on HSI/MSI fusion and super-resolution, inpainting and completion with nonlocal/self-similar priors, robust PCA and structured low-rank recovery, change detection and semantic segmentation under distribution shift, and physics-guided MRI reconstruction.

Guest Editors

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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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