

## Special Issue

# Brain Disease Diagnosis and Image Recognition

### Message from the Guest Editors

This Special Issue aims to showcase cutting-edge research at the nexus of AI, neuroimaging, and clinical neuroscience. We invite contributions that leverage advanced algorithms (e.g., convolutional neural networks, transformers, and graph-based models) to enhance image reconstruction, feature extraction, and diagnostic accuracy in brain imaging.

We welcome original research articles, reviews, and case studies that advance the theoretical foundations or practical applications of AI in brain disease diagnosis. Topics of interest include, but are not limited to the following:

- AI-driven MRI/CT/PET reconstruction and artifact correction;
- Automated lesion detection and segmentation in brain scans;
- Multimodal fusion of structural, functional, and molecular imaging data;
- Early prediction of neurodegenerative diseases using longitudinal imaging;
- Generative models for synthetic data augmentation;
- Edge computing and lightweight models for point-of-care diagnostics;
- Ethical AI frameworks for clinical deployment;
- Benchmarking datasets and reproducibility in neuroimaging AI.

### Guest Editors

Dr. Shumao Xu

Dr. He Wang

Dr. Minyan Ge

### Deadline for manuscript submissions

20 April 2026



## Life

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### Message from the Editor-in-Chief

*Life* (ISSN 2075-1729) is an international, peer-reviewed open access journal that publishes scientific studies related to fundamental themes in life sciences. Some papers are published individually, while others are submitted for inclusion in special issues with guest editors. You are invited to contribute a research article, essay, or a review to be considered for publication.

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### Editor-in-Chief

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