

Special Issue

Language Models in Lab Coats: AI-Powered Biomedical Interpretation

Message from the Guest Editor

In recent years, biomedical sciences have witnessed an exponential rise in the complexity and volume of imaging data. While radiologists and biomedical researchers strive to interpret these datasets efficiently, artificial intelligence—especially large language models (LLMs)—has emerged as a transformative force in healthcare.

This Special Issue aims to explore the intersection of biomedical imaging and large language models, emphasizing how LLMs can enhance, explain, and analyze medical images. We welcome original research articles and reviews that examine applications of LLMs in radiology, pathology, microscopy, genomics visualization, and beyond. Topics may include, but are not limited to, the following: vision–language models in image captioning and report generation, LLM-driven decision support systems, prompt engineering for medical use cases, explainable AI in image interpretation, and the integration of multimodal biomedical datasets through language-based interfaces.

Guest Editor

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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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