

# IEEE JOURNAL OF BIOMEDICAL AND HEALTH INFORMATICS

## J-BHI Special Issue on “The cutting-edge artificial intelligence techniques and their applications in drug discovery”

The realm of computer science has been revolutionizing numerous industries with its rapid advancements, and the field of drug discovery is no exception. Recent breakthroughs in various sub-disciplines have opened new frontiers, offering unprecedented opportunities to enhance and expedite the drug discovery process. This special issue focuses on how cutting-edge techniques in computer science, particularly large language models (LLMs), prompt learning, generative models, multi-modal representation learning, pre-training models, graph neural networks, and geometry deep learning, can be leveraged to revolutionize the landscape of drug discovery.

This Special Issue will focus on cutting-edge artificial intelligence techniques and their applications the drug discovery. The Special Issue will be comprised of research articles and reviews submitted by invited investigators, describing recent findings that use cutting-edge artificial intelligence techniques for the research of drug discovery.

Topics of interest include, but are not limited to, the following:

- Large Language Models (LLMs) for drug discovery
- Prompt Learning for Drug Discovery
- Generative Models for drug discovery
- Multi-Modal Representation Learning for drug discovery
- Pre-Training Models for Drug Discovery
- Graph Neural Networks for drug discovery
- Geometry Deep Learning for Drug Discovery

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### Key Dates

Deadline for Submission: 31 Dec, 2024

First Reviews Due: 05 Feb, 2025

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