Special Issue

Deciphering Medicine: The Role of Explainable Artificial Intelligence in Healthcare Innovations, 2nd Edition

Message from the Guest Editors

This Special Issue explores the critical role of explainable AI in healthcare, focusing on transparency and ethical application in medical diagnostics and treatment. We invite original research, reviews, and case studies that highlight innovations in AI interpretability, ethical considerations, and practical implementation in clinical settings.

Key Themes:

- Explainable AI for diagnosis, prognosis, and treatment planning
- Ethical implications of AI in medicine
- Successful clinical implementation of explainable AI
- Advances in transparent machine learning
- Integration of AI with traditional medical knowledge
- User-centric design of AI systems
- Regulatory and policy perspectives on AI in healthcare

Submissions:

We welcome contributions from researchers, practitioners, and thought leaders in computer science, medical informatics, bioengineering, and related fields. Articles should address both technological and practical aspects of AI in healthcare.

This Special Issue aims to promote the ethical and effective integration of AI in medicine, ultimately enhancing patient care and healthcare outcomes.

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You are invited to contribute a research article or a comprehensive review for consideration and publication in *Bioengineering* (ISSN 2306-5354). *Bioengineering* is published in open access format – research articles, reviews and other contents are released on the Internet immediately after acceptance. The scientific community and the general public have unlimited and free access to the content as soon as it is published. *Bioengineering* provides an advanced forum for the science and technology of bioengineering. We would be pleased to welcome you as one of our authors.

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