



Artificial Intelligence in Biomedical Image Processing

Guest Editors:

Dr. Hongming Shan

Institute of Science and
Technology for Brain-inspired
Intelligence and the MOE
Frontiers Center for Brain
Science, Fudan University,
Shanghai 200433, China
hmshan@fudan.edu.cn

Dr. Ruibin Feng

Division of Cardiovascular
Medicine, Department of
Medicine, Stanford University,
Mailcode 5687, 453 Quarry Road,
Palo Alto, CA 94304, USA
ruibin@stanford.edu

Dr. Zongwei Zhou

Department of Computer
Science, Johns Hopkins
University, Baltimore, 21231 MD,
USA
zzhou82@jh.edu

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Message from the Guest Editors

Dear Colleagues,

Artificial intelligence (AI) has seen a dramatic resurgence in the past few years. With powerful computational resources and large datasets, AI is able to give great potential to biomedical image processing, immensely.

On the other hand, challenges also emerge in applying AI, to biomedical image processing. For instance, the availability of biomedical image datasets is usually limited due to the need for laborious manual labeling, privacy, and regulatory requirements. Second, the current AI is prone to small data permutations. Addressing it is necessary and significant, especially in medicine and healthcare, to reduce misdiagnosis and mistreatment. Last but not least, most AI models are still considered black boxes and hard to interpret, largely hindering their clinical usage.

This Special Issue focuses on the subject of artificial intelligence and its application in biomedical engineering, with special attention to medical image processing. We invite authors who are interested in biomedical imaging, including but not limited to data acquisition, image reconstruction, image analysis and understanding, and computer-aided diagnosis.





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Editor-in-Chief

Prof. Dr. Takayoshi Kobayashi

Advanced Ultrafast Laser
Research Center, The University
of Electro-Communications, 1-5-
1, Chofugaoka, Chofu, Tokyo
182-8585, Japan

Message from the Editor-in-Chief

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MDPI, St. Alban-Anlage 66
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