



Machine-Learning-Based Process and Analysis of Medical Images

Guest Editor:

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Message from the Guest Editor

The current deep learning models are not robust, and their performance can drop when there is a change in conditions (such as testing with different cohort populations, and scanners), which leads to challenges in deploying deep learning models into real-world clinical applications. The trustworthiness and societal impact of such models have not been explored much. Despite the minimal amount of research carried out to address the limitations of the availability of limited datasets, label efficiency, and lightweight algorithms, these fields have not been fully explored. Therefore, in this Special Issue, we encourage submissions on potential research problems raised by limited datasets, label efficiency, hardware efficiency, and trustworthy and reproducible (training time and testing) deep learning that can prepare for more biomedical applications in future. This Special Issue will be devoted to unveiling the most recent progress in obtaining analytical and numerical solutions to nonlinear differential equations through various methods and to stimulating collaborative research activities.





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Message from the Editor-in-Chief

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