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Machine-Learning-Driven Medical Image Analysis

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Message from the Guest Editors

Recent advances in the fields of imaging facilities, biochemical assays, imaging analysis and machine learning algorithms have provided us with new opportunities to interrogate previously intractable diseases, including cancer. With artificial intelligence being widely applied to multi-modal medical images in recent years, it has greatly improved the objectivity and efficiency of repetitive tasks. However, the end goal of bringing AI into clinical settings is to provide reproducible and quantitative second opinions for clinicians and medical practitioners. In another words, predicting the prognosis in the early stage or suggesting the potential response of a targeted therapy would directly facilitate the personalization of the therapeutic regime for individual patients. In this regard, it is of great clinical significance to develop trustable AI tools for disease prognosis and treatment response based on various modalities of medical images.

We, therefore, invite you to submit high-quality original research, including comprehensive reviews, on the topic of “Machine-learning-driven medical image analysis”.



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Special Issue



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