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## Advances of Deep Learning in Medical Image Interpretation

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Deadline for manuscript submissions:

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### Message from the Guest Editors

Deep learning has shown revolutionary progress in various aspects of medical image interpretation, propelling computer-aided diagnosis forward at a rapid pace. Deep learning excels at identifying and localizing intricate patterns from images and providing quantifiable assessments through image analysis. There is no doubt that the impact of deep learning on medical imaging will be tremendous. In the future, many medical images will reach physicians along with an interpretation provided by deep learning.

Medical images possess unique characteristics compared to photographic images, which provide both opportunities and challenges for applying deep learning to disease diagnosis and prognosis. Medical images contain quantitative imaging characteristics that can be used as valuable information to enhance deep learning performance. Medical images also present qualitative imaging characteristics that can provide an excellent opportunity for algorithm development. Meanwhile, several characteristics unique to medical images create new challenges that must be addressed through additional investigation.



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