



## Deep Learning in Medical Image Segmentation and Diagnosis

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### Message from the Guest Editor

Deep learning has achieved tremendous growth in the solution of different signal processing, pattern recognition, natural language, forecasting, image and speech recognition, medical, healthcare, computer vision, and data science applications. Various emerging directions in deep learning— attention mechanisms, transformers, generative adversarial networks, and residual networks— have attracted attention for their potential in solving different problems. Image segmentation and diagnosing is one of the active problems in medicine. The availability of sufficient data and images from medical devices has positively affected the development of computer-aided systems for segmentation, diagnosis, and analysis of diseases. Recently, these systems using MRI, CT, and X-ray images have also attracted great interest for medical investigation. Deep learning is one of the emerging approaches that can use these data and images and identify their effective solutions. Because of its high computational power, deep learning techniques can be efficiently used in medical diagnosis and medical image processing.





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