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Deep Learning Applications to Medical Imaging

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Medical imaging has revolutionized medicine. Now medical imaging itself is witnessing a deep learning revolution. Clinically-relevant medical image interpretation tasks (e.g. image segmentation and image classification) have been re-formulated under a deep learning framework with impressive results. These early successes have been attributed to three factors: data, learning algorithms, and fast computation. I will present examples of deep learning applications to medical imaging from our research group highlighting the versatility, opportunities, and challenges in this area (website: www.MedicalImageAnalysis.com).

Primary author: Dr HAMARNEH, Ghassan

Presenter: Dr HAMARNEH, Ghassan

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