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Advanced Deep Learning for Biomedical Sensing and Imaging

Guest Editors:

Dr. Dong Xiao

Fraunhofer Centre for Applied Photonics, Glasgow G1 1RD, UK

Dr. Yahui Li

Key Laboratory of Ultra-Fast Photoelectric Diagnostics Technology, Xi'an Institute of Optics and Precision Mechanics, Xi'an 710119. China

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Message from the Guest Editors

This Special Issue aims to assemble recent research from biomedical imaging and sensing communities regarding DL applications, innovative biomedical imaging techniques and their novel applications. The scope of this Special Issue encompasses, but is not limited to, the following topics:

- Deep learning algorithms for biomedical image and signal analysis, including fluorescence sensing and imaging, fluorescence lifetime sensing and imaging, optical coherence tomography, diffuse tomography, and endoscopy;
- Deep learning for data analysis in biomedical sensors:
- Biomedical image reconstruction, denoise, and resolution enhancement based on sensors;
- Biomedical image and sensor signal classification and segmentation;
- Biomedical imaging-assisted clinical diagnosis and surgical guidance;
- Multi-modality image transformation based on sensors;
- Object detection and localization based on sensors;
- On device deep learning for biomedical sensing and imaging.













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Editor-in-Chief

Prof. Dr. Vittorio M. N. Passaro

Dipartimento di Ingegneria Elettrica e dell'Informazione (Department of Electrical and Information Engineering), Politecnico di Bari, Via Edoardo Orabona n. 4, 70125 Bari, Italy

Message from the Editor-in-Chief

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