Special Issue

Machine Learning for Medical Imaging Processing

Message from the Guest Editors

This Special Issue (SI) encourages authors to present their latest research achievements in relation to new methods and applications of machine learning for medical image processing. Medical image processing involves the use and exploration of 2D or higher dimensional image datasets of the human body obtained from various medical imaging devices to diagnose disease or guide medical interventions. Machine learning is a branch of artificial intelligence based on the idea that systems can learn from data, identify patterns and make decisions with minimal human intervention. Deep neural networks are now state-of-the-art machine learning models used for medical image analysis and processing. We look forward to the latest research results that suggest feasible solutions for various challenging tasks in medical image processing based on advanced machine learning technology. While not limited to these alone, the typical biomedical image datasets of interest include those acquired from: X-ray; Computed tomography; Magnetic resonance imaging; Nuclear medicine; Ultrasound; Optical and confocal microscopy; Video and range data images.

Guest Editors

Prof. Dr. Jae Sung Lee

Department of Nuclear Medicine, Seoul National University College of Medicine, Seoul 03080, Republic of Korea

Prof. Dr. Quanzheng Li

Department of Radiology, Massachusetts General Hospital, Harvard Medical School, Boston, MA 02114, USA

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Electronics
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
electronics@mdpi.com

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Electronics is a multidisciplinary journal designed to appeal to a diverse audience of research scientists, practitioners, and developers in academia and industry. The journal is devoted to fast publication of latest technological breakthroughs, cutting-edge developments, and timely reviews of current and emerging technologies related to the broad field of electronics. Experimental and theoretical results are published as regular peer-reviewed articles or as articles within Special Issues guestedited by leading experts in selected topics of interest.

Editor-in-Chief

Prof. Dr. Flavio Canavero
Department of Electronics and Telecommunications, Politecnico di Torino, 10129 Torino, Italy

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