Special Issue

Deep Learning Strategies for Tomography

Message from the Guest Editors

Tomography is fundamental in medicine, both for diagnosis and, in recent years, for treatment. It is performed in a single modality or by combining different modalities in order to obtain augmented reality (more information than that contained in each of the mixed modalities). This has led to an exponential increase in the number of data points produced, which need to be numerically processed and analyzed in order to ensure fast and objective measurements/evaluations. Deep learning has significantly revolutionized data/driven acquisition strategies and automated processing/ analysis/ interpretation. In fact, several tasks, including but not limited to sampling and reconstruction, filtering, compression, processing, registration, fusion, segmentation, abnormality detection and quantification, localization and interpretation, are benefiting from the new paradigms made available by deep learning. This Special Issue aims to explore deep learning strategies in every aspect of “quantitative” tomography.

Guest Editors

Dr. Giuseppe Placidi

Dipartimento di Medicina Clinica, Sanità Pubblica, Scienze della Vita e dell'Ambiente, University of L'Aquila, 67100 L'Aquila, Italy

Prof. Luigi Cinque

Dipartimento di Informatica, Sapienza University of Rome, 500185 Roma, Italy

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

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Editor-in-Chief

Prof. Dr. Emilio Quaia
Department of Radiology, University of Padova, 35100 Padova, Italy

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