Special Issue

Quantum-Inspired Computational Sensing and Imaging

Message from the Guest Editors

Conventional sensing and imaging systems resort to capturing data/light reflected from target scenes. Hence, the captured/sensed data heavily depends on the field of view. Occluded regions remain uncaptured with the conventional imaging systems. On the other hand, complete three-dimensional imaging of the scenes may help capture image data even from behind an obstacle. Thus, advances in sensing and imaging modalities may usher in a new era of high-quality sensing and high-resolution imaging, which are otherwise unachievable using conventional systems. The advent of quantum-inspired techniques conjoined with intelligent computational approaches offers impeccable sensing and imaging solutions that can capture image data even in foggy environments or directly inside the human body. For example, using quantum-inspired techniques has also led to designing and developing high-end single-photon cameras capable of retrieving high-resolution 3D images. Such quantum-inspired sensing and imaging techniques possess immense potential in autonomous vehicles, automated medical diagnosis, and other sustainable applications.

Guest Editors

Dr. Siddhartha Bhattacharyya
Dr. Jan Platoš
Dr. Avishek Nag

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

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Editor-in-Chief

Prof. Dr. Vittorio M. N. Passaro
Department of Electrical and Information Engineering, Politecnico di Bari, Via Orabona 4, 70126 Bari, Italy

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