Computational Imaging and Sensing

Collection Editors:

Prof. Dr. Ming-Jie Sun
Department of Opto-Electronic Engineering, Beihang University, Beijing 100191, China

Prof. Dr. Jinyang Liang
Centre Énergie Matériaux Télécommunications, Institut National de la Recherche Scientifique, Varennes (Québec) J3X 1S2, Canada

Message from the Collection Editors

The topical collection focuses on computational imaging to obtain high-quality images and to solve problems which cannot be solved by optical capturing or post processing alone, in order to improve imaging and sensing performance of physical or optical devices in terms of image quality, imaging speed, and functionality. Survey papers addressing relevant topics are also welcome. Topics of interest include but are not limited to:

- Computational photography for 3D imaging;
- Depth estimation and 3D sensing;
- Biological imaging (FLIM/FPM/SIM)
- Medical imaging;
- Image restoration and denoising;
- Image registration and super-resolution imaging;
- Ghost imaging and single-pixel imaging;
- Photon counting and single-photon imaging;
- High-speed imaging systems and bandwidth reduction;
- Computational sensing for advanced driver assistance systems;
- Synthetic aperture radar (SAR) imaging;
- Remote sensing;
- Ultrasound imaging;
- Computational sensing for advanced image signal processor (ISP);
- Deep learning for image reconstruction;
- Remote sensing and UAV image processing;
- Under-water imaging and dehazing.

Topical Collection

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

Sensors is a leading journal devoted to fast publication of the latest achievements of technological developments and scientific research in the huge area of physical, chemical and biochemical sensors, including remote sensing and sensor networks. Both experimental and theoretical papers are published, including all aspects of sensor design, technology, proof of concept and application. *Sensors* organizes Special Issues devoted to specific sensing areas and applications each year.

Author Benefits

Open Access : free for readers, with article processing charges (APC) paid by authors or their institutions.
High Visibility: indexed within Scopus, SCIE (Web of Science), PubMed, MEDLINE, PMC, Ei Compendex, Inspec, Astrophysics Data System, and other databases.
Journal Rank: JCR - Q2 (*Chemistry, Analytical*) / CiteScore - Q1 (Instrumentation)

Contact Us