Topical Collection

Computational Imaging and Sensing

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.

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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.

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