

Special Issue

Imaging in Biomedical Sensing

Message from the Guest Editors

Thanks to the rapidly increasing capability of imaging and processing technology, the life sciences applications have become more and more reliant on intelligent image/video processing and image/video analysis techniques. The goal of this Special Issue is to present high-impact issues in image and video processing related, but not limited to, the light-based imaging and microscopy, CT, electron microscopy, MRI, ultrasound, and PET/SPECT fields. A common challenge in these fields is the need to process ever increasing amounts of data to answer specific research questions. Associated areas are the algorithmic development of novel sensing technology and the use of intricate image and video analysis/evaluation methods for specific use cases. These trends have resulted in a recent surge in publications in the following fields:

- Image and video analysis for life sciences;
- Image and video quality assessment;
- Application of deep learning in biomedicine and bioinformatics;
- Inverse problems and image reconstruction;
- Image Representation learning;
- High-throughput image and video processing/analysis;
- Hybrid neural networks;
- Sensor fusion;
- Computational imaging.

Guest Editors

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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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