Special Issue

Photoacoustic and Ultrasound Imaging Techniques for Biomedical Applications

Message from the Guest Editors

Photoacoustic and ultrasound imaging techniques showed great potential for biomedical applications by providing structural and functional information of biological tissues. Many studies have been explored to expand the biomedical applications of photoacoustic, ultrasound, or combined imaging for various studies, including drug delivery monitoring, the biodistribution of nanomaterials, and treatment assessment. Clinical attempts of photoacoustic imaging have been made to expand the applications to the clinical world by combining conventional ultrasound imaging machines. The objective is to demonstrate advances in sensing, imaging, and analysis of photoacoustic and ultrasound imaging techniques for biomedical applications. For the topics of interest include but are not limited to:

- Photoacoustic/ultrasound imaging system;
- Sensors for photoacoustic/ultrasound imaging;
- Contrast agents for photoacoustic/ultrasound imaging;
- Contrast-enhanced photoacoustic/ultrasound imaging;
- Photoacoustic/ultrasound signal processing techniques;
- Photoacoustic/ultrasound image processing techniques;
- Light sources for photoacoustic imaging;
- Clinical photoacoustic/ultrasound imaging.

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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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