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Photoacoustic Imaging

Guest Editor:

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Deadline for manuscript submissions:
closed (30 September 2022)

Message from the Guest Editor

This Special Issue aims at presenting original state-of-the-art research articles on almost all aspects of photoacoustic imaging. However, studies mainly about the synthesis and characterization of photoacoustic contrast agents, with only marginal relation with photoacoustic imaging, are out of the scope of this issue. Topics include, but are not limited to:

- Tomography and deep-tissue imaging;
- Photoacoustic microscopy;
- Contrast agents, molecular probes, and nanoparticles;
- Pre-clinical imaging, clinical translation, and clinical applications;
- Multi-modality systems involving light and sound;
- Microwave induced ultrasound imaging and sensing;
- Laser ultrasound methods and applications;
- Physics and modeling of photoacoustic generation, propagation and detection;
- Advanced photoacoustic and ultrasound signal processing and analysis;
- Image reconstruction algorithms including deep learning;
- Novel lasers and light delivery technologies for the generation and detection of ultrasound;
- Spectroscopy and analysis of compounds.