Topical Collection

Biomedical Imaging and Sensing

Message from the Collection Editors

Recent growth in computational power and sensors has enabled both new sensing technologies and new analysis techniques with well-established modalities. For example, advances in machine learning and image processing techniques have become widespread across different facets of biomedical imaging and sensing for identifying complex patterns. Likewise, hardware advances have yielded health monitoring technologies in difficult environments, such as ambulatory monitoring. To bring different facets of health monitoring together, papers reporting novel imaging and/or sensing methods with preclinical/clinical applications are invited for submission to this Topical Collection. The core themes of this topic include but are not limited to:

- Classical machine learning techniques for image analysis
- Machine learning and health outcomes;
- Machine learning for biomedical sensing;
- The generation of synthetic patient data;
- Quantitative image analysis;
- Deep learning and diagnosis;
- Biomedical image reconstruction;
- The generation of natural language descriptions of biomedical images;
- Computer-aided diagnosis.

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About the Journal

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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