

## Special Issue

# Recent Advances in Ultrasound Sensors and Electronics for Medical Imaging Applications

### Message from the Guest Editor

Recent progresses in developing ultrasound sensors and electronics for medical imaging applications have been outstanding. Developing advanced ultrasound sensors has been an active research topic with ever-challenging and pioneering technical requirements. Concurrently, various electronic solutions, such as application-specific integrated circuits or field-programmable gate arrays, have been developed to deal with advanced imaging technologies and ultrafast imaging processing. The emergence of these revolutionary hardware designs enables medical ultrasound imaging based on conventional cart-based scanners to evolve to new form factors. This Special Issue aims to publish original manuscripts and the latest research focusing on design of transducer array and interfacing electronics that enable next-generation ultrasound devices and innovative imaging techniques. We are looking forward to receiving papers including, but not limited to, the following themes.

- Ultrasound transducer modeling, materials, and structures
- Matrix transducer array designs and fabrications
- Design of ultrasound ASICs for specific applications
- Co-integration of transducer array and electronics

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### Guest Editor

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### Deadline for manuscript submissions

closed (15 May 2024)



## Sensors

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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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### Editor-in-Chief

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