



Advances in Ultrasound Sensor and Ultrasound Imaging

Guest Editor:

Dr. Xinjing Huang

State Key Laboratory of Precision
Measurement Technology and
Instruments, Tianjin University,
Tianjin 300072, China

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Message from the Guest Editor

Dear Colleagues,

Ultrasonic sensor and imaging technologies have been developed for more than one hundred years, and there are four main application scenarios: underwater scenarios, airborne scenarios, and in solid and biological tissues. Ultrasonic sensors can be based on disruptive concepts or can be an improvement of traditional devices, but they must be used for the purpose of imaging. These new alternatives could be equally efficient and less expensive, or equally cheap and higher performance, compared with existing sensors. We also welcome ultrasonic sensors and imaging technologies for some special applications. Potential topics include, but are not limited to, the following:

- New ultrasound sensors with advances in acoustic capturing, acoustic-electric transition, or real-time electrical signal conditioning;
- Acoustic metamaterial devices equipped with conventional or new ultrasonic sensors;
- New ultrasound imaging techniques driven by advances in ultrasound sensors;
- Theoretical and experimental investigations of the influences of ultrasound sensor performance on ultrasound imaging performance.

Dr. Xinjing Huang
Guest Editor





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Editor-in-Chief

Prof. Dr. Giulio Nicola Cerullo
Dipartimento di Fisica,
Politecnico di Milano, Piazza L.
da Vinci 32, 20133 Milano, Italy

Message from the Editor-in-Chief

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Applied Sciences Editorial Office
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