

## Special Issue

# Advances in Acoustic Sensor and Imaging Technology

### Message from the Guest Editor

Acoustic sensor and imaging technologies have been developed for more than one hundred years and have four main applications: in underwater scenarios, airborne scenarios, and in solid and biological tissues. In all of these cases, the performance of acoustic imaging depends on two cascaded signal processing steps: (1) acoustic sensing, including acoustic capturing, acoustic–electric transition, and real-time signal conditioning, which is accomplished by an acoustic sensor; (2) signal processing, which is accomplished by acoustic imaging algorithms. We would like to see acoustic imaging technology driven by advances in acoustic sensors. Our Special Issue's potential topics include, but are not limited to, the following:

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

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### Guest Editor

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### Deadline for manuscript submissions

closed (20 January 2026)



## Applied Sciences

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As the world of science becomes ever more specialized, researchers may lose themselves in the deep forest of the ever increasing number of subfields being created. This open access journal *Applied Sciences* has been started to link these subfields, so researchers can cut through the forest and see the surrounding, or quite distant fields and subfields to help develop his/her own research even further with the aid of this multi-dimensional network.

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### Editor-in-Chief

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