

## Special Issue

# The Evolving Landscape of Ultrasonic Sensing and Testing

### Message from the Guest Editors

Ultrasonic sensing, having been used in nature for millions of years for communication, navigation, and food foraging, has evolved. This natural technology has been adapted to human applications following the invention of piezoelectric materials, which made its usage possible. Today, a new era in ultrasonic testing is emerging, driven by progress in manufacturing processes, the development of new materials, advanced computational algorithms such as AI, high-performance computing tools, and the integration of robotics and automation. This Special Issue aims to capture recent advancements in ultrasonic testing and provide insight into the future direction of this technology—working toward a safer and more efficient world.

- ultrasonic testing
- signal processing
- automation
- AI
- ML
- digital twin
- ultrasonic imaging
- ultrasonic process monitoring
- scanning acoustic microscopy
- ultrasound metrology

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### Guest Editors

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### Deadline for manuscript submissions

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## Sensors

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