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Ultrasound Measurement and Sensing Technologies

Guest Editor:

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Message from the Guest Editor

Dear Colleagues,

Ultrasound measurement is a rather user-friendly method due to its non-invasiveness, portability and real-time imaging capabilities. Ultrasound measurement has found broad appeal across disciplines and applications from sensors for guiding and checking for industrial and non-industrial nondestructive testing to biological, medical, and food industry applications. Ultrasound measurement in standard procedures requires manual operation of the probe based on the interpretation of the image. A robotic system for autonomous ultrasound measurement holds great promise to relieve the workload of operators, yield more standardized imaging results, and find application in harsh environments.

This Special Issue aims to highlight advances in ultrasound measurement in robotic sensing systems. Topics include but are not limited to the following:

- Ultrasonic measurement, imaging and visualization.
- Nondestructive testing.
- Robot design, ultrasound robotic sensing and robot control.
- Ultrasound measurement in harsh environments: high/low temperature, pressure, radiation, corrosiveness.

Dr. Hiroshige Kikura
Guest Editor

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Message from the Editor-in-Chief

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