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Sensing Technology for Image-Guided Therapy and Medical Robotics

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Deadline for manuscript submissions:
closed (20 May 2025)

Message from the Guest Editor

This Special Issue aims to spotlight advancements in sensing technology for image-guided therapies. These may include improved sensors for capturing virtual biological parameters, motion tracking, mechanical parameters measurement, innovating imaging modalities for enhanced tissue visualization, and sophisticated data analysis algorithms for extracting meaningful information from collected data.

Potential topics include, but are not limited to, the following:

- Shape sensing;
- Vision-based tracking;
- Thermal mapping;
- Active tracking in real-time MRI;
- Active and passive optical tracking;
- Electromagnetic tracking;
- Force sensing in MRI environments;
- MRI-compatible encoders;
- Respiratory motion tracking;
- Tactile sensors;
- Multispectral imaging;
- EEG signal monitoring;
- FMRI;
- Medical data processing

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Message from the Editor-in-Chief

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