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Sensing for Social and Intelligent Robots

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Message from the Guest Editor

Social and intelligent robots have gained significant attention due to their potential to revolutionize various domains, including healthcare, education, entertainment, and assistive technology. Sensing technologies play a vital role in enabling these robots to perceive and understand their surroundings, interact with humans, and exhibit adaptive behaviors.

This Special Issue invites researchers and practitioners to contribute original research papers, reviews, case studies, and application-focused articles that cover a broad range of topics related to sensing for social and intelligent robots, including, but not limited to, the following:

- Sensing modalities for social robots (e.g., vision, audio, touch, and proximity);
- The perception and recognition of human gestures, emotions, and expressions;
- Human–robot interaction and collaboration using sensing technologies;
- Sensor fusion techniques for multimodal perception in robots;
- Adaptive and context-aware sensing for intelligent robots;
- Sensor-based navigation and mapping for social robots;
- Sensing for assistive and healthcare robotics;
- Ethical considerations and privacy issues in sensing for social robots;

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Message from the Editor-in-Chief

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