Special Issue

Sensing Technologies for Intelligent Robotics and Human–Robot Interaction

Message from the Guest Editor

Intelligent robotics and human–robot interaction (HRI) are rapidly evolving fields that rely heavily on advanced sensing technologies to perceive, interpret, and adapt to dynamic environments. This Special Issue aims to explore recent advancements in sensor design, sensor fusion, signal processing, and AI-driven perception systems that enable robots to interact intelligently with humans and their surroundings. We welcome original research and review articles that address challenges in real-time data acquisition, multi-modal sensing integration, wearable and bio-inspired sensors, safety in HRI, and context-aware robotic behaviors. Contributions that bridge the gap between hardware innovations and software intelligence for next-generation robotics are particularly encouraged.

- human-robot interaction (HRI)
- sensor fusion
- robotics

Guest Editor

Prof. Dr. Hang Su
The IBISC Laboratory, UEVE, University of Paris-Saclay, 91000 Evry, France

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Sensors
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
sensors@mdpi.com

mdpi.com/journal/sensors

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Sensors is a leading journal devoted to fast publication of the latest achievements of technological developments and scientific research in the huge area of physical, chemical and biochemical sensors, including remote sensing and sensor networks. Both experimental and theoretical papers are published, including all aspects of sensor design, technology, proof of concept and application. Sensors organizes Special Issues devoted to specific sensing areas and applications each year.

Editor-in-Chief

Prof. Dr. Vittorio M. N. Passaro
Dipartimento di Ingegneria Elettrica e dell'Informazione (Department of Electrical and Information Engineering), Politecnico di Bari, Via Edoardo Orabona n. 4, 70125 Bari, Italy

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