

Special Issue

Human-Robot Interaction in Intelligent Robotics

Message from the Guest Editor

As robots become smarter, by incorporating increasingly advanced artificial intelligence techniques, including generative approaches, they are also able to exhibit novel and sophisticated interaction strategies with humans. This Special Issue will focus on the intersection of robotics, artificial intelligence, and human-robot interactions, covering topics such as the following:

- Perception of human feelings using robots;
- Reinforcement learning for human-robot interactions;
- Generative AI for human-robot interactions;
- Multi-robot collaboration with humans;
- Virtual, extended, and augmented reality in human-robot interactions;
- Human acceptance of smarter robots;
- Explainable AI and transparency in human-robot interactions;
- User experience design for interactive intelligent robots;
- Emotional intelligence in robotic systems;
- Social implications of robots with advanced AI capabilities;
- Human-robot collaboration in industrial settings;
- Security and privacy concerns in AI-driven robotic systems;
- Integrating natural language processing in cognitive robotics;
- Robotic companionship and emotional support.

Guest Editor

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Message from the Editor-in-Chief

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.

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