Special Issue

Sensors and Sensing Technologies for Social Robots

Message from the Guest Editors

Recent technological advances have made it possible to initiate a progressive deployment of service robots in daily life contexts. These next-generation robots are connected to smart environments and other agents, rely on artificial intelligence-based solutions to interact with people using natural channels, and cooperate with humans and other agents to accomplish different tasks.

Robots working in these settings must be aware of their context, not only physical but also social. They need to perceive, understand, and adapt their behavior to this context, with special emphasis on perceiving and predicting people activities. New sensors and combinations of sensors are employed to help with achieving these tasks, ranging from multicamera systems to radar-based person recognizers, considering both sensors mounted on the robot and others located in the environment or in other agents. The nature and characteristics of these sensors are also influenced by the application domain in which the robot is deployed, ranging from industrial co-workers to home assistants.

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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.

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