Special Issue

Artificial Intelligence Robotics and Cognitive Systems Based on Sensors

Message from the Guest Editor

Artificial intelligence and cognitive science are some of the dominant approaches in current robotic systems and applications. There has been a substantial development of the framework over the recent years, focusing on robot perception, motion planning, human–robot interaction, robot cognitive learning, and decision-making algorithms. Advancements in sensor technologies, computing power, and AI algorithms have contributed to the progress in this field, enabling the development of increasingly sophisticated and capable intelligent systems. However, many researchers, within enactive and ecological approaches to the cognitive learning of robots, remain uncertain about issues of environment, interaction, and implementation factors. The purpose of this Issue is to collect papers from researchers in these areas, including innovations and implementations on utilizing artificial intelligence and cognitive science to create intelligent sensor devices, sensor technology, and sensor interfaces that can perceive, reason, learn, and interact with the environment, with the ultimate goal of achieving human-level intelligence and autonomy.

Guest Editor

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Deadline for manuscript submissions

closed (25 February 2024)

Sensors

an Open Access Journal by MDPI

Impact Factor 3.5
CiteScore 8.2
Indexed in PubMed

mdpi.com/si/175575

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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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