Special Issue

Research on Robot Systems for Embodied Intelligence Applications

Message from the Guest Editors

This Special Issue aims to provide a forum for original research on theories, models, algorithms, system architectures, and experimental platforms that advance robot systems for embodied intelligence applications. We welcome contributions addressing key challenges in multimodal perception, sensor fusion, sensorimotor coordination, embodied learning, reinforcement learning, world modeling, human–robot interaction, distributed and multi-robot collaboration, intelligent control, and safe real-world deployment. Particular interest will be given to studies that integrate sensors, actuators, communication, and computation to enable robust and adaptive interaction in complex and dynamic environments. Applications of interest include service robotics, industrial automation, healthcare and assistive robotics, autonomous vehicles, smart manufacturing, and other sensor-rich embodied AI scenarios. By bringing together interdisciplinary work from robotics, artificial intelligence, sensor and actuator networks, control, and cognitive systems, this Special Issue seeks to promote both theoretical advances in and practical implementations of embodied intelligent robot systems.

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About the Journal

Message from the Editor-in-Chief

I encourage you to contribute research and comprehensive review articles for publication in Journal of Sensors and Actuator Networks (JSAN), an international, open access journal which provides an advanced forum for research findings in areas of sensors and actuators. The journal publishes original research articles, reviews, conference proceedings (peer reviewed full articles) and communications. I am confident you will find the journal contributes to enhancing understanding of sensors and actuators and fostering applications of sensor-based measurements and effective actuator incorporation.

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