Special Issue

Embodied Intelligence and Its Application in Robotics

Message from the Guest Editors

Embodied intelligence represents a transformative approach in robotics by integrating physical interaction, environmental perception, and autonomous decision-making to enable adaptive behavior in dynamic settings. Leveraging multimodal sensing, advanced control, and embodied learning, it addresses key challenges in industrial automation, healthcare, service robotics, and exploration. To promote advancements in this field, *Applied Sciences* invites contributions on embodied intelligence in robotics. Topics of interest include, but are not limited to: multimodal sensor fusion (e.g., tactile–proprioceptive integration, vision-language models), reinforcement and meta-learning, hierarchical decision-making, human–robot interaction, bio-inspired navigation, intelligent control, and swarm coordination. We also welcome studies applying embodied intelligence to medical, industrial, aerial, and service robots, focusing on adaptability and cognitive architectures.

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As the world of science becomes ever more specialized, researchers may lose themselves in the deep forest of the ever increasing number of subfields being created. This open access journal Applied Sciences has been started to link these subfields, so researchers can cut through the forest and see the surrounding, or quite distant fields and subfields to help develop his/her own research even further with the aid of this multi-dimensional network.

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