Special Issue

Robot Control in Human–Computer Interaction

Message from the Guest Editors

This Special Issue explores the intersection of robot control techniques and HCI, considering the control and design of intelligent robotic systems to facilitate user experience, interaction, and performance in interactive environments. As robotics becomes increasingly embedded un daily life—assistive technology and smart homes, industrial automation, and social robots—the need for intuitive, adaptive, and secure control systems in on the rise. The Issue brings together cutting-edge research on topics including, but not limited to, the following areas:

- Shared and adaptive control methods in human–robot interaction.
- Multimodal interfaces for natural robot control.
- Learning-based methods for user-adaptive robot action.
- Trust, transparency, and explainability in robot decision-making.
- Real-time feedback and user modeling in robot control.
- Applications in healthcare, education, collaborative work, and assistive robotics.

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Message from the Editor-in-Chief

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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