Special Issue

Latest Advances and Prospects of Human-Robot Interaction (HRI)

Message from the Guest Editors

In the paradigm of human–robot interaction (HRI), teams composed of humans and robots operating in the same environment have the potential to exchange physical and cognitive information, leveraging complementary skills to achieve a common goal. The cognitive capabilities and adaptability of humans are combined with robot precision and consistency, ensuring optimized outcomes across various scenarios: (i) manufacturing (ii) healthcare (iii) service and assistance. The broad array of existing technologies for monitoring human movement, controlling and programming robot behavior, and optimizing their interaction paves the way for new perspectives and applications. Additionally, the widespread adoption of artificial intelligence, such as machine learning and deep learning techniques, introduces significant challenges within HRI scenarios.The present Special Issue is designed to comprehensively collect new advances and prospects of human–robot interaction in different fields. Contributions focusing on the development, presentation, and exploitation of innovative techniques for the improvement of HRI are welcome.

Guest Editors

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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.

Editor-in-Chief

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