Special Issue

Artificial Intelligence(AI) in Robotics

Message from the Guest Editors

Robotic technology has played a key role in a number of areas, including daily life, industrial applications and medical applications. Artificial intelligence, in particular, machine learning, is crucial and important for intelligent robots or unmanned/autonomous systems, such as UAVs, UGVs, UUVs, cooperative robots, etc. For human beings, capabilities such as perceiving visual information, adapting to uncertain environments and making decisions to take action in a complex system make people distinct from animals. Significant progress has been made towards human-like intelligence in robotics; however, there are still many unresolved problems. In recent decades, techniques such as deep learning, reinforce learning, real-time learning, swarm intelligence and other emerging techniques such tiny-ML have been developed, which have been applied in robotics. We believe that the increasing demands and challenges posed by real-world problems involving robotic applications promote academic research of artificial intelligence as well as robotics.

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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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