Artificial Intelligence(AI) in Robotics

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Message from the Guest Editors

Dear Colleagues,

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.

Special Issue

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Message from the Editor-in-Chief

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