Special Issue

Bio-Inspired Robot and Multirobot Systems

Message from the Guest Editor

Dear Colleague, The design of robots of all shapes and sizes is inspired by the ability of animals to move effectively in their environment. Recent years have seen an increasing interest in nature-inspired modeling for solving complex computational problems; recent work shows strong potential in creating artificial systems that mimic insect behavior for solving complex coordination tasks. These insects have evolved over a long time and display unusual behaviors that are highly suitable for addressing complex tasks. The insect-inspired multiagent research applying these techniques to robotic systems is motivated by a wide range of application areas, such as surveillance and patrolling, exploration and identification of hazardous environments, space exploration, etc. Though easy to simulate, artificial pheromones are hard to bring into real-life robotic applications. This Special Issue will be of interest mainly to scientists, researchers, and students working in bio-inspired robotics and multirobot systems. Still, it can also be interesting to other readers interested in the more general areas of robotics and control.

Guest Editor

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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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