



Recent Advances in Autonomous Liquid Robotics

Guest Editor:

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Message from the Guest Editor

Dear Colleagues,

Recently, research from different fields of science, including philosophy, biology, condensed matter physics, chemistry, nanotechnology, robotics, computer science, and electrochemistry, started to converge around the concept of liquid state autonomous systems. Organic, inorganic, or hybrid devices in the liquid state kept in a fixed volume by surface tension or by a confining membrane could be used as biologically inspired autonomous robotic systems.

This Special Issue focuses on the advancements toward the realization of such a system, enabling tremendous advantages over existing technologies, in particular for what concerns information processing and storage, extreme environment/fault tolerance, marginal energy consumption, exploration of remote areas such as planetary environments, post-disaster search and rescue in ground applications, and compliant wearable devices, and even the medical field for in vivo applications.

I sincerely invite all researchers and investigators to contribute their original research, a review, or an article (experiments, simulations, theoretical approaches, and visions) to this Special Issue.





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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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