Special Issue

Advances in Underwater Robot Technology

Message from the Guest Editors

With the rapid development of scientific ocean exploration, underwater robots have become one of the most important tools for exploiting and utilizing marine resources. When compared with autonomous underwater vehicles (AUVs), the core feature of bionic small-scale robots refers to the capability to operate missions such as tracking ocean creatures and the ability of monitor the marine environment in narrow underwater spaces. Therefore, these small-scale biomimetic robots have been receiving increasing interest from academia. It is clear that bioinspired methods are becoming increasingly important in the face of the complexity of today's demanding applications. Biological inspiration in underwater robotics is leading to complex structures with sensory–motor coordination, in which learning often plays an important role in achieving adaptation. This Special Issue will focus on the theoretical and technological challenges of evolutionary transformation from biological systems to intelligent underwater robots. All aspects of underwater robotics and biologically inspired robots are welcome.

Guest Editors

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Message from the Editor-in-Chief

Machines is an international, peer reviewed journal on machinery and engineering. It publishes research articles, reviews and communications.
Our aim is to encourage scientists to publish their experimental and theoretical results in as much detail as possible. There is no restriction on the length of the papers. Full experimental and/or methodical details must be provided.
There are, in addition, unique features of this journal: Manuscripts regarding research proposals and research ideas will be particularly welcomed; Electronic files or software regarding the full details of the calculation and experimental procedure - if unable to be published in a normal way can be deposited as supplementary material.

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