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Advanced Autonomous Machines and Designs

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Message from the Guest Editors

With the rapid technological development of machines in different applications such as vehicles, robotics, manufacturing, etc., it may raise concerns with regards to complexity, safety, performance, and maintenance costs associated with the machine operation. To partly overcome these challenges, the concept of autonomy was introduced to machines, which means the machines are able to operate with minimal influence from external controllers or users. The functionality of autonomous machines depends on the integration of mechanical, electrical, or hydraulic components with informational components to reach a higher level of autonomy in machine operation. Toward this aim, the operation of autonomous machines is mainly related to local environment-sensing technology, remote control technology, as well as interaction with their environment. The primary objective of this Special Issue is to provide a forum for researchers and practitioners to exchange their latest theoretical and technological achievements and to identify critical issues and challenges for future investigation on the integration of autonomous concepts based on information system technologies in machines.



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Special Issue



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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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