Special Issue

Artificial Intelligence and Machine Learning in Industrial Automation: Methods and Applications

Message from the Guest Editors

This special issue focuses on the current situation and future prospects of artificial intelligence and machine learning in industrial automation. The advantages of AI include the ability to judge, respond, collect information, and identify more quickly, efficiently and accurately than ordinary people. This can help humans to complete operations with higher productivity, reduce human work intensity in complex industrial production, and improve the efficiency and stability of industrial production. For example, in the application process of Internet of Things technology, information such as positioning and intelligent recognition can be comprehensively used to expand corresponding functions. This is very beneficial to the development of industrial automation, but also to meet automotive assembly industry automation development needs. In addition, machine learning is applied to industrial modeling and prediction, and can also assist product-line design and final testing. Automation evidently plays a crucial role in the industry, and AI, as an engineering discipline, has an irreplaceable role in industrial automation.

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Deadline for manuscript submissions

closed (20 December 2022)

Applied Sciences

an Open Access Journal by MDPI

Impact Factor 2.5
CiteScore 5.5

mdpi.com/si/103998

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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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