Special Issue

Trends and Prospects in Advanced Automated Manufacturing Systems

Message from the Guest Editors

In today's rapidly evolving industrial landscape, advanced automated manufacturing systems reshape production processes and drive efficiency across sectors. These systems integrate cutting-edge technologies such as robotics, artificial intelligence, and the Internet of Things to optimize operations, reduce errors, and enhance flexibility. This Special Issue on Trends and Prospects in Advanced Automated Manufacturing Systems provides a platform for interdisciplinary research that examines both the technological innovations and the practical challenges associated with their implementation. The issue highlights research on smart factories, cyber–physical systems, and adaptive control systems, which are crucial for achieving a competitive advantage in a global market. In addition, contributions explore the impact of automation on workforce dynamics, sustainability, and cost-effectiveness. By fostering dialogue between academia and industry, this Special Issue aims to contribute to developing resilient and innovative manufacturing systems.

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Deadline for manuscript submissions

closed (15 October 2025)

Applied Sciences

an Open Access Journal by MDPI

Impact Factor 2.5
CiteScore 5.5

mdpi.com/si/235767

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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.

Editor-in-Chief

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