

Special Issue

Integrating AI and Machine Learning in Sustainable Practices Across Industries

Message from the Guest Editors

The integration of artificial intelligence (AI) and machine learning (ML) into sustainable practices offers transformative potential across diverse industries. Industries can optimize resource utilization, enhance operational efficiency, and achieve sustainability goals using advanced algorithms, predictive analytics, and intelligent systems. The intersection of AI, ML, and sustainable practices is capable of addressing global challenges, such as climate change and resource depletion, and also enables innovation in the development of green technologies, circular economy strategies, and energy-efficient systems. The goal of this Special Issue is to explore the latest advancements, methodologies, and applications of AI and ML in driving sustainable practices across various sectors. We invite contributions that provide theoretical insights, computational approaches, experimental results, or reviews/surveys that explore the transformative impact of AI and ML on sustainability. We aim to gather interdisciplinary perspectives that highlight scientific, technological, and practical solutions to enable a sustainable future.

Guest Editors

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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.

Editor-in-Chief

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