Special Issue

Application of Machine Learning in Industry 4.0

Message from the Guest Editors

Industry 4.0 is reshaping the future of manufacturing and industrial processes through a convergence of cutting-edge technologies, including collaborative robotics (Cobots), the Internet of Things (IoT), cyber-physical systems (CPS), big data analytics, artificial intelligence (AI), augmented reality (AR), virtual reality (VR), additive manufacturing (3D printing), blockchain, edge computing, autonomous vehicles, and 5G connectivity, among others. As data are becoming increasingly central to modern industrial operations, machine and deep learning algorithms should play a pivotal role by providing invaluable tools for extracting meaningful insights and optimizing complex processes. Starting from these premises, we aim to explore a fundamental research question: "How can machine learning and deep learning empower and optimize the capabilities of these Industry 4.0 factors?". We welcome research papers that provide practical insights and efficient solutions to harness the potential of these advanced technologies for enhanced decision-making, automation, and productivity in industrial settings.

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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.

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