Special Issue

Industrial IoT: From Theory to Applications

Message from the Guest Editors

The forthcoming evolution of the Industrial Internet of Things (IIoT) will be characterized by advancements in intelligent communication and computational systems. These systems will revolutionize network management to improve operational efficacy and dependability across diverse industrial automation sectors. The forefront of this transformative era is marked by the advent of sophisticated technologies such as network digital twins and self-organizing networks, facilitating a paradigm shift to autonomously managed networks. These innovations are instrumental in diminishing the reliance on manual intervention by enabling networks to self-configure, self-optimize, and self-repair.

Submissions for this Special Issue are sought to bridge the gap between theoretical innovation and practical application in the field of IIoT, providing insights that will contribute to the collective understanding of IIoT's evolution. The shared knowledge is intended to advance the industry towards an autonomous and self-regulating industrial future.

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Deadline for manuscript submissions

closed (10 April 2025)

Applied Sciences

an Open Access Journal by MDPI

Impact Factor 2.5
CiteScore 5.5

mdpi.com/journal/applsci

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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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