

Special Issue

Multimodal Intelligence and Digital-Physical Systems in the Industrial Internet of Things

Message from the Guest Editors

The Industrial Internet of Things (IIoT) is entering a new stage of development through the convergence of digital and physical systems and the rise of multimodal intelligence. By integrating advanced approaches such as digital twins, blockchains, intelligent sensing, and artificial intelligence, the IIoT is evolving into a more adaptive, reliable, and sustainable paradigm. In particular, the incorporation of multimodal large models has opened new opportunities for unified perception, knowledge representation, and decision-making across heterogeneous industrial data sources, enabling predictive maintenance, real-time monitoring, fault diagnosis, and resilient operations that enhance efficiency and innovation across sectors such as manufacturing, energy, transportation, and logistics.

This Special Issue aims to present high-quality research on emerging theories, methodologies, and applications of multimodal intelligence and digital-physical systems in the IIoT. We welcome original research articles, case studies, and reviews reporting significant scientific and technological progress.

Guest Editors

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About the Journal

Message from the Editor-in-Chief

Electronics is a multidisciplinary journal designed to appeal to a diverse audience of research scientists, practitioners, and developers in academia and industry. The journal is devoted to fast publication of latest technological breakthroughs, cutting-edge developments, and timely reviews of current and emerging technologies related to the broad field of electronics. Experimental and theoretical results are published as regular peer-reviewed articles or as articles within Special Issues guestedited by leading experts in selected topics of interest.

Editor-in-Chief

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