Special Issue

Digital Twin Technologies for Industrial Monitoring and Control Systems

Message from the Guest Editor

Digital Twin (DT) technologies are revolutionizing industrial ecosystems by creating dynamic, real-time virtual replicas of physical systems, enabling unprecedented precision in monitoring, control, and decision-making. As industries embrace Industry 4.0 and smart manufacturing, DTs bridge the gap between physical and digital realms, potentially enhancing predictive maintenance, operations, and sustainable practices. This Special Issue seeks to explore the advancements, challenges, and applications associated with DT technologies tailored to industrial environments, fostering innovation in automation, efficiency, and resilience. Topics of Interest

- Modeling and Fidelity
- Real-Time Data Integration
- AI/ML Applications
- Cybersecurity
- Edge/Cloud Computing
- Interoperability
- Human-Machine Interaction
- Sustainability
- Case Studies

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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.

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