Special Issue

IoT-Driven Digital Twin Integration and Energy Modeling for Smart Industry 4.0

Message from the Guest Editors

We would like to invite you to contribute to this Special Issue, "IoT-Driven Digital Twin Integration and Energy Modeling for Smart Industry 4.0", which will be published in *Electronics*. Submissions should address advancements in areas including (but not limited to) the following:

- IoT frameworks and smart contracts in building management that are cloud-native.
- Open IoT protocols using MQTT for constrained devices, CoAP (Constrained Application Protocol), and cloud-based RESTful APIs using HTTP/HTTPS via the internet.
- Calibration methodologies for energy models using IoT data.
- UrbanOpt, OpenStudio, EnergyPlus, and related tools for energy modeling.
- Real-time data analytics and anomaly detection for smart buildings.
- Digital twin modeling for improved energy management.
- Edge computing solutions in energy-efficient smart industry environments.
- Practical case studies demonstrating IoT–digital twin integration for energy optimization.

Guest Editors

Dr. Vasanth Iyer

Prof. Dr. Saraju P. Mohanty

Dr. Jeff Ma

Dr. Peng "Solomon" Yin

Deadline for manuscript submissions

15 December 2025

Electronics

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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manuscripts are peer-reviewed and a first decision is provided to authors approximately 16.8 days after submission; acceptance to publication is undertaken in 2.4 days (median values for papers published in this journal in the first half of 2025).