

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

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Dr. Jeff Ma

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Deadline for manuscript submissions

15 December 2025



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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 guest-edited by leading experts in selected topics of interest.

Editor-in-Chief

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