

## Special Issue

# Intelligent Manufacturing Technology for Industry 5.0

### Message from the Guest Editors

The transition to Industry 5.0 marks a paradigm shift in manufacturing, emphasizing the synergy between humans and intelligent systems to create sustainable, efficient, and highly personalized production environments. Unlike the automation-centric goals of Industry 4.0, Industry 5.0 prioritizes human-centered manufacturing, sustainability, and resilience while leveraging cutting-edge technologies such as artificial intelligence (AI), robotics, the Internet of Things (IoT), and digital twins (DTs). This Special Issue aims to explore the latest developments, challenges, and opportunities in intelligent manufacturing technologies that are transforming the industrial landscape for Industry 5.0. Topics of interest for this Special Issue include, but are not limited to, the following:

- Human-centered intelligent manufacturing systems;
- Real-time decision making in Industry 5.0 manufacturing environments;
- Digital twin technologies for adaptive and personalized manufacturing;
- Collaborative robotics and human-robot interaction in production;
- AI-driven predictive maintenance and zero-defect manufacturing;

We look forward to receiving your contributions.

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### Guest Editors

Dr. Shimin Liu

Dr. Ruoxin Wang

Dr. Jiazhen Pang

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### Deadline for manuscript submissions

15 September 2025



## Electronics

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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.

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### Editor-in-Chief

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