

## Special Issue

# The Future of Advanced Manufacturing: Application and Optimization of Robotics

### Message from the Guest Editors

The future of advanced manufacturing is closely linked to the optimization and application of robotics, which is rapidly transforming the industry by enhancing efficiency, productivity, and flexibility. The integration of automation and robotics is becoming more common, with industrial robots performing tasks such as assembly, welding, material handling, and packaging. These robots excel in repetitive tasks, improving quality and reducing costs. The incorporation of artificial intelligence (AI) and machine learning into robotics allows for adaptability to changing environments, learning from experience, and intelligent decision-making, further optimizing manufacturing processes. This Special Issue invites submissions of technical, experimental, simulation, and methodological papers related to advanced manufacturing, with a focus on innovative approaches to enhance these processes.

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### Guest Editors

Dr. Kang Xu

Dr. Wei Fan

Prof. Dr. Lei Shi

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### Deadline for manuscript submissions

15 August 2025



## Electronics

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*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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