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Power Electronics Technology for Industrial 5.0

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Deadline for manuscript submissions:
closed (15 June 2023)

Message from the Guest Editors

Dear Colleagues,

In Industry 5.0, particularly within an electronic context, it is expected that systems can collaborate with humans in order to increase their wealth, which includes the development of sustainable practices, to promote sustainability within the industry in general.

Power electronics technology, for instance, has achieved considerable progress after several decades of the evolution of power converters, electrical machines, motor drives, and advanced control techniques, playing, therefore, a significant role to promote sustainability in society.

This Special Issue aims to gather the latest developments, concerning these challenges.

- Soft computing approaches to produce electronic products for renewable energy systems
- Collaborative ecosystems in the electronics industry to design green products
- Neural network's-based on power electronic products are designed for the energy efficiency sector
- AI's based approaches to improve industry's process manufactory
- Integration of energy storage systems with renewable energy generation in smart grids
- Novel topologies of power electronic converters adopted for sustainable power systems

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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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