

## Special Issue

# Hardware in the Loop, Real-Time Simulation and Digital Control of Power Electronics and Drives, 2nd Edition

### Message from the Guest Editors

The main objective of this Special Issue is to provide experts in the field of power electronics and drives the opportunity to present their research and development efforts in the field of hardware-in-the-loop, real-time simulations, digital control, and functional safety of power electronics and drives, with an emphasis on practical applications. Therefore, researchers who are involved in the above mentioned research topics are invited to submit their manuscripts and to contribute their expertise to this Special Issue. Keywords

- power converters
- motor drives
- digital controllers
- microcontroller-based applications
- FPGA-based controllers
- system-on-chip-based controllers
- software-in-the-loop
- hardware-in-the-loop
- functional safety of the power electronics
- fault-tolerant techniques
- microcomputer-based real-time simulations
- FPGA-based real-time simulations

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### Guest Editors

Prof. Dr. Miro Milanovic

Prof. Dr. Eric Monmasson

Dr. Franc Mihalič

Dr. Lahoucine Idkhajine

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### Deadline for manuscript submissions

closed (31 January 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

Prof. Dr. Flavio Canavero

Department of Electronics and Telecommunications, Politecnico di  
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days (median values for papers published in this journal in  
the second half of 2024).