

## Special Issue

# FPGA-Based Reconfigurable Embedded Systems

### Message from the Guest Editors

Embedded systems are widely used across the entire world today, covering areas such as industrial controls, automotive electronics, medical electronics, consumer electronics, telecom/datacom, military/aerospace, etc. The customizable and programmable nature of FPGAs makes them an excellent alternative to ASICs. Topics of interest for this Special Issue include, but are not limited to, the following:

- Novel reconfigurable architectures
- Resource-efficient/low-power/domain-specific design optimization for FPGA-based embedded systems.
- Co-design of hardware and software for FPGA-accelerated embedded systems.
- Abstractions, programming models, interfaces, and runtime management, including virtualization, for FPGA-based embedded systems.
- New languages and design frameworks for spatial or heterogeneous applications for FPGAs.
- System resilience/fault tolerance for embedded systems with FPGAs.
- Self-adaptive/AI embedded systems with FPGAs.

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### Guest Editors

Dr. Zonghui Li

Dr. Yangdong Deng

Dr. Tao Li

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### Deadline for manuscript submissions

closed (15 April 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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