

Special Issue

Embedded Systems and Microcontroller Smart Applications

Message from the Guest Editors

This Special Issue of *Electronics* delves into the exciting potential that these advancements unlock for the designers of embedded system. We explore innovative applications leveraging the capabilities of modern microcontrollers, while acknowledging the constant need for efficient resource utilization and cost optimization. The scope of this Special Issue includes the following topics:

- Balancing performance and power consumption: Optimizing code and hardware for low-power operation while maintaining the necessary processing speed.
- Security considerations in resource-constrained environments: Implementing robust security measures without compromising system performance or memory footprint.
- The integration of emerging technologies: Exploring the seamless integration of technologies such as machine learning, artificial intelligence, and sensor fusion into resource-limited embedded systems.
- Design for manufacturability and cost-effectiveness: Ensuring efficient production processes and minimizing material costs while achieving the desired functionality.

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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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