



Special Issue on
Embedded Systems Design and Applications
Call for Papers

Embedded Systems Design and Applications focuses on the principles, methodologies, and practical implementations of computing systems that are tightly integrated with hardware to perform dedicated functions within larger systems. This special issue covers advances in embedded hardware and software co-design, real-time and cyber-physical systems, low-power and high-performance architectures, embedded artificial intelligence, Internet of Things (IoT) platforms, and system reliability and security. Emphasis is placed on innovative design techniques, development tools, and real-world applications across domains such as industrial automation, smart devices, automotive and transportation systems, healthcare technologies, robotics, and intelligent infrastructure, highlighting both theoretical progress and applied solutions that address current and emerging challenges in embedded systems engineering.

In this special issue, we intend to invite front-line researchers and authors to submit original research and review articles on exploring **Embedded Systems Design and Applications**. Potential topics include, but are not limited to:

- Embedded hardware architecture
- Embedded software design
- Hardware–software co-design
- Real-time embedded systems
- Cyber-physical systems
- Low-power and energy-efficient systems
- Embedded artificial intelligence
- Internet of things embedded systems
- System-on-chip design
- Embedded communication protocols
- Embedded system security
- Fault-tolerant embedded systems
- Reconfigurable and FPGA-based systems
- Embedded operating systems
- Industrial and automotive embedded systems
- Embedded systems testing and verification

Authors should read over the journal's [For Authors](#) carefully before submission. Prospective authors should submit an electronic copy of their complete manuscript through the journal's [Paper Submission System](#).



Please kindly specify the “**Special Issue**” under your manuscript title. The research field “**Special Issue - *Embedded Systems Design and Applications***” should be selected during your submission.

Special Issue Timetable:

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