Special Issue

Recent Advances of Real-Time Embedded Software Systems

Message from the Guest Editor

To build high-confidence real-time embedded systems, verification and validation are essential to ensure that the worst cases are evaluated and/or tested. Moreover, emerging technologies such as machine learning and edge-computing-based techniques are proven to be effective to increase the performance, safety, and security of real-time embedded systems. This Special Issue focuses on (but is not limited to) the following areas:

- Design and analysis of embedded or cyber-physical software;
- Safety-critical and mixed-critical embedded software design;
- Testing, verification, and validation of real-time embedded software;
- Model-based approaches for embedded software design and testing;
- Real-time embedded operating systems and middleware;
- Scheduling for real-time embedded software systems;
- Acceleration using multi- and many-core processors;
- Resource management for embedded software design;
- Balancing performance and safety for embedded software;
- Vulnerability analysis and security of embedded software systems.

Guest Editor

Dr. Akramul Azim

Department of Electrical, Computer and Software Engineering, Faculty of Engineering and Applied Science, Ontario Tech University, Oshawa, ON L1G 0C5, Canada

Deadline for manuscript submissions

closed (20 April 2024)

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Electronics
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
electronics@mdpi.com

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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.

Editor-in-Chief

Prof. Dr. Flavio Canavero
Department of Electronics and Telecommunications, Politecnico di Torino, 10129 Torino, Italy

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