

Special Issue

New Trends in Real-Time Embedded Systems

Message from the Guest Editors

The evolutions of the applications and of the computing platforms are exacerbating most of the existing design issues, especially because the architectures are becoming more and more specialized and heterogeneous, and the workload rather mixed. This Special Issue is tackling such a problem from a cross-domain perspective, focusing on the aspects of software, hardware, and real-time theory that are mostly affecting the timing behavior of modern embedded systems. Topics of interest include but are not limited to the following areas:

- Schedulability/feasibility analysis in single/multi-core;
- WCET analysis and evaluation with novel methodologies;
- Dynamic (partial) reconfiguration for real-time embedded systems;
- HW accelerators for system performance enhancement and power/energy-awareness for real-time systems;
- Use of AI/ML for real-time embedded systems;
- Real-time embedded systems simulations, emulations, and analysis;
- Novel real-time communications models and Infrastructures for single/multi-core systems;
- Hypervisors and mixed-criticality systems;
- Security and/or reliability for real-time embedded systems.

Guest Editors

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Deadline for manuscript submissions

closed (20 December 2021)



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About the Journal

Message from the Editor-in-Chief

As the world of science becomes ever more specialized, researchers may lose themselves in the deep forest of the ever increasing number of subfields being created. This open access journal *Applied Sciences* has been started to link these subfields, so researchers can cut through the forest and see the surrounding, or quite distant fields and subfields to help develop his/her own research even further with the aid of this multi-dimensional network.

Editor-in-Chief

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