Special Issue

Embedded Systems: Design, Challenges and Trends

Message from the Guest Editor

One of the major issues in designing embedded systems consists in providing more computing power in smaller and smaller devices, while guaranteeing energy efficiency and a high performance level. Other issues are related to the new usage of these systems, such as the possibility to transparently and concurrently execute many applications or operating systems, sometimes in real-time. These issues may be tackled with virtualization, which is a well-known concept in the servers or personal computing domains and that has been progressively considered in embedded systems. Virtualization of embedded systems is interesting for various reasons. It makes architectural abstraction possible since a given application may migrate from several physical cores to a single virtual one. It also enables the execution of legacy applications and ensures security since virtual machines are fully isolated in their execution context.

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Deadline for manuscript submissions

closed (31 December 2021)

Electronics

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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 guestedited by leading experts in selected topics of interest.

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