



## Embedded Systems: Design, Challenges and Trends

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### 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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