



Software/Hardware Codesign for Embedded Multicore Systems

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Message from the Guest Editor

This Special Issue calls for innovative work to design, analyze, optimize the use, and solve the challenges of using multicore systems using software/hardware codesign approaches.

Topics of interest include, but are not restricted to the following:

- HW/SW partitioning, interfaces and synthesis
- Handling heterogeneity in codesigned multicores
- Memory hierarchies, scratchpad, and caches in multicore systems
- Communication and synchronization for multicore systems
- Modeling, analysis, and multi-criteria optimizations of non-functional properties
- Security, dependability, and fault tolerance of SW/HW-codesigned multicores
- Automatic parallelization and compilation approaches for multicores
- SW/HW codesign for in- and near-memory computing
- Hypervisor and operating systems for multicores
- Architecture–compiler–operating system codesign
- Runtime adaptive and reconfigurable systems
- WCET/WCEC analysis for multicore systems
- Networks-on-Chip (NoCs) for codesigned multicore systems
- Design space exploration, virtual platforms, and cosimulation





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Message from the Editor-in-Chief

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