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Reconfigurable Computing and Real-Time Embedded Systems

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Deadline for manuscript submissions:
closed (30 April 2022)

Message from the Guest Editors

In this Special Issue, we aim to collect high-quality submissions that include the theoretical, engineering, and application aspects of real-time embedded systems and reconfigurable systems.

The Special Issue will focus on (but is not limited to) the following topics:

- Real-time computing architectures
- Real-time network protocols
- Reconfigurable systems
- Dynamic partial reconfiguration
- Predictable access to shared memories, I/O devices, and accelerators
- Real-time virtualization
- Real-time robotics systems
- Resource scheduling and allocation in embedded real-time systems
- Optimization in real-time embedded and reconfigurable systems
- Hardware acceleration
- Predictable and efficient parallel applications
- Energy-and-power-aware allocation and scheduling
- Spatial and temporal isolation
- Floorplanning in FPGA
- Timing predictability for artificial intelligence
- Worst-case and probabilistic real-time guarantees

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Message from the Editor-in-Chief

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