Microcontrollers and Microprocessors: The Advanced System on the Chip

Guest Editor:

Prof. Dr. Muhammad Rashid
Department of Computer Engineering, Umm Al-Qura University, Makkah 21421, Saudi Arabia

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Message from the Guest Editor

Due to an ever-increasing growth in component technologies (very large-scale integration), design/development flow (top-down, bottom-up, and meet-in-the-middle), and programming frameworks, modern microprocessors-based systems have touched new horizons. In other words, novel system-on-a-chip (SoC) solutions, in terms of applications as well as architecture, are emerging. From an application point of view, this includes but is not limited to the Internet of Things (IoT), hardware security (classical as well as post-quantum), intrusion detection in networks, acceleration of machine learning algorithms, cloud computing, ambient intelligence, and edge computing. From an architectural and development point of view, it includes but is not limited to hardware/software co-design, hardware and software co-verification, platform-based design, high-level synthesis, model-driven development, virtual prototyping, reconfigurable computing, application-specific processors, FPGA prototyping, and so on.

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Special Issue

Editor-in-Chief

Message from the Editor-in-Chief

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