







an Open Access Journal by MDPI

# 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

Deadline for manuscript submissions:

closed (30 November 2023)

## **Message from the Guest Editor**

ever-increasing growth Due to in component technologies large-scale integration). (verv 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 algorithms, cloud computing. 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.













an Open Access Journal by MDPI

### **Editor-in-Chief**

#### Prof. Dr. Ai-Qun Liu

1. Department of Electrical and Electronic Engineering, The Hong Kong Polytechnic University, Hong Kong, China 2. School of Electrical and Electronic Engineering, Nanyang Technological University, Singapore 639798, Singapore

## **Message from the Editor-in-Chief**

You are invited to contribute research articles or comprehensive reviews for consideration and publication in *Micromachines* (ISSN 2072-666X). *Micromachines* is published in the open access format. Research articles, reviews and other contents are released on the internet immediately after acceptance. The scientific community and the general public have unlimited free access to the content as soon as it is published. As an open access journal, *Micromachines* is supported by the authors or their institutes by payment of article processing charges (APC) for accepted papers. We are pleased to welcome you as our authors.

#### **Author Benefits**

**Open Access:** free for readers, with article processing charges (APC) paid by authors or their institutions.

**High Visibility:** indexed within Scopus, SCIE (Web of Science), PubMed, PMC, Ei Compendex, dblp, and other databases.

**Journal Rank:** JCR - Q2 (Instruments and Instrumentation) / CiteScore - Q1 (Mechanical Engineering)

#### **Contact Us**