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Energy-Efficient Processors, Systems, and Their Applications

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Deadline for manuscript submissions:
closed (15 November 2022)

Message from the Guest Editors

The main focus of this Special Issue will be on the most recent and novel developments in the domain of high-performance computing, which maintain a primary focus on energy efficiency. Revolutionary methods are required with a stronger integration among hardware features, system software, and applications. Topics of interest include, but are not limited to:

- Energy-efficient CPUs, such as ARM and RISC-V CPUs;
- Application-specific hardware accelerators, such as FPGAs and TPUs;
- System software optimizations that allow for efficient communication and avoid system contentions, such as user-level interprocess communication, user-level interrupts, and lightweight runtime systems;
- Application optimizations to reduce data movements, i.e., bring data closer to computational units as well as avoid data transfer bottlenecks.

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Message from the Editor-in-Chief

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Journal Rank: JCR - Q2(*Electrical and Electronic Engineering*) CiteScore - Q2 (*Electrical and Electronic Engineering*)

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