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FPGA-Based Accelerators of Deep Learning and Neuromorphic Computing

Guest Editor

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Deadline for manuscript submissions:

closed (15 May 2023)

Message from the Guest Editor

Dear Colleagues,

This Special Issue will cover advanced techniques for the hardware acceleration of deep learning and neuromorphic algorithms on FPGA, ranging from micro-architecture design to automatic compilation, as well as hardware-friendly algorithm optimization, including the latest ongoing research efforts in these fields but not limited to:

- 1. Algorithm–hardware co-design for FPGA-based intelligent acceleration;
- 2. System and software for FPGA accelerator compilation;
- 3. Reconfigurable/adaptive computing for AI/ML;
- 4. FPGA-based rapid prototyping of AI/ML system;
- 5. Programmable neuromorphic computing architectures on FPGAs;
- 6. Implementation of novel intelligent applications on FPGAs;
- 7. Al/ML systems based on coarse-grained reconfigurable architectures (CGRAs);
- 8. Implementation and evaluation of spiking neural networks on FPGAs.

Dr. Yufei Ma *Guest Editor*











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Message from the Editor-in-Chief

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