Low-Power Data Processing on the Edge: Solutions for Artificial Intelligence Hardware Acceleration

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Message from the Guest Editors

Dear Colleagues,

This Special Issue aims to provide a comprehensive overview of the latest advancements and developments in the field of low-power data processing on edge devices, with a particular focus on hardware acceleration techniques for artificial intelligence (AI) and machine learning (ML) applications. The primary focus is to present state-of-the-art research and developments related to low-power data processing and hardware acceleration techniques for AI and ML applications on edge devices.

This Special Issue will usefully supplement the existing literature on low-power data processing and edge AI in several ways. Through the inclusion of real-world applications and case studies, this Special Issue will provide practical insights and examples that can inform and inspire future research, development, and deployment of low-power AI solutions on the edge. By addressing security, privacy, and reliability concerns in low-power edge computing, this issue will contribute to the ongoing conversation on ensuring the safe, secure, and responsible use of AI and ML technologies in edge devices.

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