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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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Special Issue



big data and cognitive computing



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Message from the Editor-in-Chief

Big Data and Cognitive Computing (BDCC) is a scholarly online journal which provides a platform for big data theories with emerging technologies on smart clouds and exploring supercomputers with new cognitive applications. It is a peer-reviewed, open access journal that publishes high quality original articles, reviews and short communications. The primary aims of this journal are to encourage contributions of high quality scientific papers relating to data management and analytics in industry, such as manufacturing, healthcare, education, media and business, data mining, and cognitive science. There is no restriction on the maximum length of the papers.

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