Intelligent Edge: When AI Meets Edge Computing

Message from the Guest Editor

This Special Issue investigates the dynamic interplay between artificial intelligence (AI) and edge computing, two revolutionary technologies that are redefining the landscape of modern computing. AI brings the power of both machine learning and intelligent decision making. In contrast, edge computing offers the advantage of localized data processing. This reduces latency by reducing the load on cloud data centers and enhancing data security. The data are processed locally and in a distributed manner, which spreads out the attack surface and reduces the need to transmit sensitive information. Contributions in this Special Issue explore how AI algorithms can be optimized for edge devices, considering their limited resources. It also delves into how edge computing can facilitate real-time AI applications by processing data closer to its source. Additionally, the Special Issue examines security and privacy concerns in the intelligent edge network, addressing how to safeguard sensitive information in decentralized environments.

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