Deep Learning and Edge Computing for Internet of Things

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Message from the Guest Editors

The evolution of 5G and Internet of Things (IoT) technologies is leading to ubiquitous connections among humans and their environment, such as applications in autopilot transportation, mobile e-commerce, unmanned vehicles and healthcare. Moreover, computing environment, resulting in the requirement for support an increasing range of functionality: multi-sensory data processing and analysis, complex systems control strategies, and, ultimately, artificial intelligence. After several years of development, edge computing for deep learning has shown its incomparable practical value in the IoT environment. Pushing computing resources to the edge in closer proximity to devices enables low-latency service delivery for both safety and applications. However, edge computing still has abundant untapped potential for deep learning. Systems should leverage awareness of the surrounding environment and attach more importance to edge-edge intelligence collaboration and edge-cloud communication; computation systems should provide more support for services like edge AI in order to optimize the computing process. This Special Issue aims to explore recent advances in edge computing technologies.

Special Issue

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Message from the Editor-in-Chief

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