



## The Applications of Deep Neural Network in Edge Computing

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### Message from the Guest Editors

Dear Colleagues,

The evolution of Deep Neural Networks (DNNs) has revolutionized various domains of artificial intelligence, from image recognition to natural language processing. When coupled with the expanding field of Edge Computing, where data processing occurs closer to the data source rather than in distant data centers, DNNs present a transformative potential. Edge Computing aims to reduce latency, preserve bandwidth, and upgrade privacy and security by processing data locally. The integration of DNNs into Edge Computing environments enables real-time, efficient, and intelligent decision-making in numerous applications, ranging from autonomous vehicles to smart city infrastructure. This convergence is crucial as the Internet of Things (IoT) era matures, demanding more sophisticated, decentralized computing paradigms.

This SI aims to explore cutting-edge developments, existing challenges, and future directions regarding the deployment of Deep Neural Networks in Edge Computing scenarios.

Research areas may include (but are not limited to) the following:

- *Deep Neural Networks (DNNs) in IoT*
- *Optimization of DNNs for Edge Devices*
- *Edge-based AI Services*





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