Special Issue

The Applications of Deep Neural Network in Edge Computing

Message from the Guest Editors

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*

Guest Editors

Dr. Samiya Khan

School of Computing and Mathematical Sciences, University of Greenwich, London SE10 9LS, UK

Dr. Korhan Cengiz

Department of Information Technologies, Faculty of Informatics and Management, University of Hradec Kralove, 500 03 Hradec Králové 3, Czech Republic

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Electronics
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
electronics@mdpi.com

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Electronics is a multidisciplinary journal designed to appeal to a diverse audience of research scientists, practitioners, and developers in academia and industry. The journal is devoted to fast publication of latest technological breakthroughs, cutting-edge developments, and timely reviews of current and emerging technologies related to the broad field of electronics. Experimental and theoretical results are published as regular peer-reviewed articles or as articles within Special Issues guest-edited by leading experts in selected topics of interest.

Editor-in-Chief

Prof. Dr. Flavio Canavero
Department of Electronics and Telecommunications, Politecnico di Torino, 10129 Torino, Italy

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