Special Issue

Deep Learning and Edge Computing for Internet of Things

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.

Guest Editors

Prof. Dr. Shaohua Wan

Shenzhen Institute for Advanced Study, University of Electronic Science and Technology of China, Shenzhen 518110, China

Dr. Yirui Wu

College of Computer Science and Software Engineering, Hohai University, Nanjing 211100, China

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

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As the world of science becomes ever more specialized, researchers may lose themselves in the deep forest of the ever increasing number of subfields being created. This open access journal Applied Sciences has been started to link these subfields, so researchers can cut through the forest and see the surrounding, or quite distant fields and subfields to help develop his/her own research even further with the aid of this multi-dimensional network.

Editor-in-Chief

Prof. Dr. Giulio Nicola Cerullo
Dipartimento di Fisica, Politecnico di Milano, Piazza L. da Vinci 32, 20133 Milano, Italy

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