

Special Issue

Edge Learning and Big AI Model in Wireless Communication and Networking

Message from the Guest Editors

Due to the explosive growth of data traffic in Internet-of-Thing (IoT) systems, machine learning and data-driven approaches are expected to become a key enabler to fuel the development of beyond 5G (B5G) wireless networks. Standard machine learning approaches require centralizing the training data on a single data center such as a cloud. However, due to privacy constraints and limited communication resources for data transmission, it is impractical for all wireless devices to transmit all of their collected data to a data center that can use the collected data to implement centralized machine learning algorithms for data analysis and inference. This has led to the emergence of a fast-growing research area, called edge learning, which can deeply integrate the two major areas: wireless communication and machine learning. Recently, the big AI model (or foundation model) has received a lot of attention, which is an emerging paradigm for building a unified machine learning system based on a generic class of AI models. We welcome researchers from academia and industry to introduce to the communications community the latest advances in edge learning and big AI models.

Guest Editors

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Deadline for manuscript submissions

closed (15 July 2024)



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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.

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