

Special Issue

6G Communication and Edge Intelligence in Wireless Sensor Networks

Message from the Guest Editors

Edge computing has attracted extensive attention from both academia and industry in the 5G era, aiming to reduce local computing overheads and latency in uploading data to the cloud by leveraging the computing power of edge servers. In the upcoming 6G era, this approach will be further strengthened. In these services, devices cooperate with each other or edge servers by exchanging model parameters to complete model inference or training while simultaneously protecting data privacy and addressing the issue of the data island. Wireless networks have a significant impact on the performances of these services. On one hand, wireless resources are limited, and frequent model parameter transmissions incur considerable latency. On the other hand, wireless networks are unreliable, and errors in model parameter transmission can lead to model aggregation divergence. This Special Issue will bring together researchers interested in this topic to collectively tackle the above challenges, which may include novel edge computing architectures, algorithms, applications, etc.

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