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Machine Learning for Wireless Networks - Recent Advances and Future Trends

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Message from the Guest Editors

Our society is experiencing a digitization revolution, with a drastic growth of Internet users and connected devices. Next-generation wireless networks should provide ultra-reliable, low-latency communication and intelligently control the internet of things (IoT) devices in real-time scenarios. Wireless network applications like in real-time traffic data, sensor reading from driverless cars, or Netflix entertainment recommendations generate extreme volumes of data that must be collected and processed in real time. These communication requirements and core intelligence can only be achieved through the integration of machine learning techniques in the wireless infrastructure and end-user devices.

The objective of this Special Issue is to explore recent advancements in machine learning concepts to address practical challenges in wireless networks.

This Special Issue will bring together researchers and academics to present new results in network modeling and architecture, networking applications, security and privacy, resource management, load balancing, and various challenges related to the design for future wireless networks with the help of machine learning.