



Online Learning Aided Solutions for 6G Wireless Networks

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Message from the Guest Editors

The evolving Sixth Generation (6G) wireless networks will provide 100 to 1000 Gbps rates and ultra-low latency of 1 millisecond using native, embedded Artificial Intelligence (AI) capability to support myriad services, such as Holographic Type Communication (HTC), tactile Internet, remote surgery, etc. However, these services demand ultra-reliability, which is highly impacted by the dynamically changing environment of 6G heterogeneous tiny cells, whereby static AI-based solutions fitting all scenarios and devices are impractical. This talented low cost/fast converging learning methodology motivates researchers and practitioners to apply it and bound its performance in various future wireless communication systems, including Millimeter-Wave/TeraHertz (mmWave/THz) communications, D2D communications, NOMA based systems, Physical Layer Security (PLS), Unmanned Aerial Vehicles (UAV) communications, Cognitive Radio (CR) systems, Reconfigurable Intelligent Systems (RIS), etc.

This Special Issue (SI) is soliciting original technical papers addressing the main research challenges in the direction of applying online learning aided solutions for handling future 6G networks.





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Message from the Editor-in-Chief

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