Deep Learning for Next-Generation Wireless Networks

Guest Editors:

Dr. Bouziane Brik
DRIVE Laboratory, Bourgogne
University, Nevers, France

Dr. Junaid Ahmed Khan
Department of Electrical and
Computer Engineering, Western
Washington University,
Bellingham, WA 9822, USA

Prof. Dr. Guangjie Han
Department of Information and
Communication Engineering,
Hohai University, Nanjing, China

Deadline for manuscript
submissions:
closed (31 July 2023)

Message from the Guest Editors

Deep learning (DL), including deep supervised learning, deep unsupervised learning, and deep reinforcement learning, has been a key enabler in future wireless networks, including 5G and beyond (B5G) networks.

In this Special Issue, we solicit original, high-quality papers in the field of DL-driven B5Gs, potential topics may include but are not limited to:

■ DL solutions for medium access control layer functionality, including resource allocation, user association, mobility management, etc.

■ DL for core network management in B5Gs, including network slicing, virtualization, service deployment/migration, etc.

■ DL for emerging scenarios in B5Gs, including EURLLC, mMTC, UAV, IIoT, JCS, etc.

■ DL for fog/edge/cloud computing in B5Gs.

■ AI-powered energy-efficient network orchestration.

■ Security and privacy for DL-driven wireless communications.

■ Testbed, experimental evaluations, and real-world applications of DL techniques in wireless communications.

mdpi.com/si/119438

Special Issue

Editor-in-Chief

Prof. Dr. Flavio Canavero
Department of Electronics and
Telecommunications,
Politecnico di Torino, 10129
Torino, Italy

Message from the Editor-in-Chief

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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