Physical Layer Security for 5G Communications: Challenges and Road Ahead

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Message from the Guest Editors

5G wireless communication acts as a force multiplier for innovation technologies such as Industry 4.0, fog computing, IoT mobile cloud, and artificial intelligence (AI). The usage of wireless network is applicable in almost every field, such as energy trading, control information, bank transaction, and the transmission of sensitive medical information, resulting in high risks of security threats on the physical layer.

Topics of interest include, but are not limited to:

- Physical layer security in IoT systems;
- Physical layer security for massive MIMO/mmWave/NOMA;
- Security and privacy of 5G wireless communication technologies, challenges, and open issues;
- Secrecy analysis and enhancement in PLS of 5G networks;
- Artificial intelligence (AI)-driven PLS for 5G industrial IoT applications;
- Machine learning tools and applications for enhancing physical layer security;
- Safeguarding PLS using software-defined radio access networks;
- IoT and cyber–physical system applications for 5G wireless powered networks (WPN).

Special Issue

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Message from the Editor-in-Chief

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