

## Special Issue

# Physical Layer Security for Next-Generation Wireless Networks: Theory, Technologies, and Applications

### Message from the Guest Editors

With the rapid development of sixth-generation (6G) communication systems, various forms of wireless networks, including Internet of Things (IoT), unmanned aerial vehicle (UAV) communications, and satellite communications, suffer from high security risks due to the open nature of wireless channels. Traditional cryptographic methods alone are no longer sufficient to meet the growing security demands of large-scale, heterogeneous, and resource-constrained next generation wireless networks. On the other hand, physical layer security (PLS), including secret key generation, secure communications via the wiretap channel and covert communication, has emerged as a solution and gained significant research interest in the past decade. Leveraging tools from information theory, signal processing, and wireless communications, PLS aims to provide confidentiality, integrity, and stealth against eavesdropping, jamming, and detection among other malicious attacks. PLS offers unique advantages via ultra-low latency, high reliability, and seamless integration with cutting edge technologies for wireless networks.

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### Deadline for manuscript submissions

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