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AI and Security in 5G Cooperative Cognitive Radio Networks

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Message from the Guest Editors

Dear Collogues,

5G cooperative cognitive radio continues to be a subject of great interest to researchers in wireless communications. It mitigates the radio spectrum scarcity by enabling opportunistic access to the spectrum. With spectrum sensing techniques, unlicensed users detect the available spectrum and use it for their transmissions without interfering with the licensed users. In cooperative scenarios, unlicensed users collaborate and report their sensing results to a fusion center for the final decision about the spectrum occupancy.

Artificial intelligence technology has been heralded as the revolutionary technology needed to successfully solve any problem of today's networks. Integrating artificial intelligence into 5G networks allows efficiently detecting the presence of malicious users and other security concerns facing the 5G cooperative cognitive radio networks. In this context, this Special Issue is an opportunity to investigate how artificial intelligence can detect and mitigate security challenges facing cooperative spectrum sensing.



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Message from the Editor-in-Chief

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