Special Issue

AI and Security in 5G Cooperative Cognitive Radio Networks

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.

Guest Editors

Dr. Fatima Salahdine

Dr. Mohammed Ridouani

Dr. Hassan El Alami

Deadline for manuscript submissions

30 September 2025

Future Internet

an Open Access Journal by MDPI

Impact Factor 3.6
CiteScore 8.3

mdpi.com/si/127513

Future Internet
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
futureinternet@mdpi.com

mdpi.com/journal/futureinternet

Future Internet

an Open Access Journal by MDPI

Impact Factor 3.6
CiteScore 8.3

mdpi.com/journal/futureinternet

MDPI

About the Journal

Message from the Editor-in-Chief

Future Internet is a fast-growing journal devoted to rapid publications of the latest results in the general areas of computer networking/communications and information systems, with a focus on the Internet of Things, big data and augmented intelligence, smart systems (in terms of technologies, architectures, and applications), network virtualization, edge/fog computing, and cybersecurity. Both theoretical and experimental papers are welcome. Every year, *Future Internet* also features Special Issues dedicated to specific topics within the journal's scope.

Editor-in-Chief

Prof. Dr. Gianluigi Ferrari
Department of Engineering and Architecture, University of Parma, Parco Area delle Scienze, 181/A, 43124 Parma, Italy

Author Benefits

Open Access:

free for readers, with article processing charges (APC) paid by authors or their institutions.

High Visibility:

indexed within Scopus, ESCI (Web of Science), Ei Compendex, dblp, Inspec, and other databases.

Journal Rank:

JCR - Q2 (Computer Science, Information Systems) / CiteScore - Q1 (Computer Networks and Communications)