Special Session on
Security & Trust in Radio Access Networks

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Panagiotis Sarigiannidis is an Associate Professor in the Department of Electrical and Computer Engineering at the University of Western Macedonia. He has been involved in several national, European, and international projects and he is currently the project coordinator of three H2020 projects. His research interests include telecommunication networks, internet of things, and network security.

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Thomas Lagkas is an Assistant Professor of the Department of Computer Science of the International Hellenic University. His research interests are in the areas of IoT communications and distributed architectures, communication security, wireless communication networks, QoS in medium access control, mobile multimedia communications, 5G and beyond systems, and flying ad hoc networks.

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Vasileios Argyriou is a Professor at Kingston University, working on computer vision and AI for crowd and human behavior analysis, computer games, entertainment, medical applications, educational games, and HCI for augmented and virtual reality(AR/VR) systems.

Scope of the session

The Radio Access Network (RAN) is an integral component of the mobile networks as it enables the connection between the User Equipment (UE) and the Core Network (CN). The dense deployment of massive numbers of Internet-of-Things (IoT) devices along with the emergence of new application verticals impose significant threats in security, privacy and trust of RAN. New architectures, technologies and mechanisms should be designed, developed, and integrated in order to address the stringent requirements and offer intelligent and trusted resource management, flexible networking and security by design. This Special Session aims to collect and disseminate recent advancements and emerging trends in next-generation RAN security and trust, focusing on the architecture, enabling technologies and protocols.

Prospective authors are invited to submit original and unpublished work on the following research topics related to this Special Session:

- *Technologies and Enablers*
- *Security and Privacy in RAN*
- *Open Specifications and Protocols*
- *Zero-touch Management (ZTM)*
- *AI-enabled Network Orchestration*
- *Security by Design*
- *Blockchain for Networks and Services*

- *Emerging B5G and 6G Architectures*
- *Non-Terrestrial Networks (NTN) Integration*
- *Semantic Communications*
- *Privacy by Design*
- *Network Scalability and Multi-Tenancy*
- *Federated Learning Architectures*
- *Security, Privacy, and Trust*