

ECCWS 2023

22nd European Conference on Cyber Warfare and Security

22 – 23 June 2023, Athens, Greece

Mini Track on Cyber Resilience

Mini Track Chairs: Christoph Lipps, German Research Center for Artificial Intelligence – Intelligent Networks Research Department, Germany



Communication and the exchange of information have always been a driving force and the foundation of relationships and interaction within societies. Due to the increasing globalization of systems and the fusion of the virtual and physical world - towards Cyber Physical Systems (CPS), Digital Twins (DTs) and the (Industrial) Internet of Things ((I)IoT) -, the significance of communication itself and the exchange of data is rising as well. And this, to the extent that telecommunications and information technology are considered one of the essential sectors of the Critical Infrastructure. Recent innovations in mobile communications, such as Beyond 5G (B5G) and the Sixth Generation (6G) of wireless systems, are accelerating this trend even more. With this dependency

and the increasing value of the transmitted information, however, comes the fact that the systems are becoming increasingly attractive to attackers and saboteurs, entailing the need for technical solutions to detect, evolve and protect the systems.

Thus, the core challenge will be hardening the communication networks by addressing the entire cyber resilience lifecycle: Improving security, detecting attacks, responding to them and recovering from occurred ones. Therefore, this track focuses not only on security in wireless systems and mobile communications, but encompasses all aspects of system security, including but not limited to:

- Cyber Resilience Lifecycle
- Beyond 5G & 6G Wireless System Security
- Physical Layer Security
- Biometrics
- Network Security
- Artificial Intelligence for Security



Christoph Lipps, graduated in Electrical and Computer Engineering at the University of Kaiserslautern, where he meanwhile lectures as well. He is a Senior Researcher and Ph.D. candidate at the German Research Center for Artificial Intelligence (DFKI) in Kaiserslautern, Germany, heading the *Cyber Resilience & Security* Team of the Intelligent Networks Research Department. He is not only a member of the committee of the ICCWS and ECCWS, but also scientific committee member of various international conferences, and reviewer of several

journals. His research focuses on Physical Layer Security (PhySec), Physically Unclonable Functions (PUFs), Artificial Intelligence (AI), entity authentication, Security in the Sixth Generation (6G) Wireless Systems and all aspects of network and cyber security.

Submission Details

In the first instance, a 300–350-word abstract is required, submissions must be made using the online submission form at <https://www.academic-conferences.org/conferences/eccws/eccws-abstract-submission/>

If you have any questions about this track, please email: Christoph.Lipps@dfki.de

See more about ECCWS 2023 at <http://www.academic-conferences.org/conferences/eccws>