

Call for Papers

SS12 – Industrial Cybersecurity Methods and Technologies

Organized and Chaired by

Paulo C. Bartolomeu¹, Amjad Gawanmeh²

¹University of Aveiro, Portugal, bartolomeu@ua.pt

²University of Dubai, UAE, agawanmeh@ud.ac.ae

❖ **FOCUS.** Industrial cybersecurity has emerged as a key topic of research in recent years due to the massive connectivity brought by the Internet of Things and the rise of cyber-attacks against industrial assets. While fostering contemporary use-cases and applications, the ubiquitous access to the Internet has also exposed legacy operational technologies to new and challenging security threats that need to be addressed. This Special Session focuses on novel security, safety, and privacy-enhancing technologies for existing and future industrial applications.

❖ TOPICS

- ❖ Security, safety, or privacy-enhancing technologies in industrial systems
- ❖ Modeling of cybersecurity threats
- ❖ Applications of distributed ledger technologies/blockchains in Industry 4.0
- ❖ Self-sovereign identity for M2M and decentralized device-to-device communication
- ❖ Hardware advances for securing Industrial devices and networks
- ❖ Quantitative evaluation and/or interconnections among non-functional aspects (e.g., reliability vs. safety, security vs. performance)
- ❖ Run-time methods and technologies for Complex Event Detection systems
- ❖ Software engineering methods and techniques for high dependable control systems
- ❖ Case studies / lessons learned of security, safety, or privacy assessments of industrial systems

❖ **AIM.** The aim of this SS is to bring together researchers, practitioners, and experts from industry that conduct innovative cybersecurity work on related technical fields.

❖ **CONFERENCE FORMAT.** The conference will comprise multi-track sessions for regular papers, to present significant and novel research results with a prospect for a tangible impact on the research area and potential implementations, as well as work-in-progress (WiP) and industry practice sessions.

❖ AUTHOR'S SCHEDULE (2025)

❖ Regular and special sessions papers

Submission deadline **April 18**
Acceptance notification **May 23**
Deadline for final manuscripts **July 4**

❖ Work-in-progress/Industry practice papers

Submission deadline **May 30**
Acceptance notification **June 20**
Deadline for final manuscripts **July 4**