



# Special Session on Advancements & Emerging Trends in Cyber Security

## Name and affiliation of organizers:

<p>Dr Vassilios Vassilakis          University of York, UK  <a href="mailto:vv573@york.ac.uk">vv573@york.ac.uk</a></p>  <p>Dr Vassilios Vassilakis is an Associate Professor in Cyber Security at the University of York. He's been involved in EU, UK, and industry funded R&amp;D projects related to the design and analysis of next generation networks and technologies. He's served as an Associate Editor in IEICE Transactions on Communications, IET Networks, and Optical Switching &amp; Networking</p>	<p>Prof Sevil Sen          Hacettepe University  <a href="mailto:ssen@cs.hacettepe.edu.tr">ssen@cs.hacettepe.edu.tr</a></p>  <p>Sevil Sen is a Professor in the Department of Computer Engineering at Hacettepe University and leads the Wireless Networks and Intelligent Secure Systems (WISE) laboratory. Her research interests are networking, network and systems security. Her focus is mainly in the area of mobile systems and wireless networks. She is currently serving as an area editor for Ad Hoc Networks, Genetic Programming and Evolvable Machines, and Data in Brief.</p>
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## Scope of the session

With the advancement of new technologies, modern society is surrounded by various types of devices, networks, and services that offer Internet connectivity. These advancements provide a better lifestyle and the convenience of improved services and communications. However, this ubiquitous connectivity also introduces new security threats and exposes vulnerabilities in systems and networks, creating new avenues for attacks. The objective of this Special Session is to share recent advancements and emerging trends in cybersecurity, with a focus on a wide range of solutions, technologies, as well as novel attack vectors and methodologies for threat analysis.

*Prospective authors are invited to submit original and unpublished work on the following research topics related to this Special Session:*

- *Mobile networks and technologies.*
- *Software-defined networks.*
- *Intelligent transportation systems.*
- *Adaptive and autonomous systems.*
- *Unmanned aerial vehicles.*
- *Secure execution environments.*
- *Cloud, fog, and edge computing.*
- *Malware analysis and detection.*
- *Blockchain and distributed ledger systems.*
- *Industrial control systems.*
- *Cyber-physical systems and digital twins.*
- *Online social networks.*
- *Smart devices and Internet of things.*
- *Intelligent networking.*