IEEE Global Communications Conference
4-8 December 2022 – Rio de Janeiro, Brazil
Accelerating the Digital Transformation through Smart Communications

IEEE GLOBECOM® 2022

CALL FOR PAPERS AND PROPOSALS

Communication & Information System Security Symposium

Symposium Co-Chairs

- **Sandra Scott-Hayward, Queen's University Belfast, U.K., s.scott-hayward@qub.ac.uk**
- **Laura Pierucci, University of Florence, Italy, laura.pierucci@unifi.it**
- **Michele Nogueira, Federal University of Minas Gerais, Brazil, michele@dcc.ufmg.br**

Scope and Motivation

Continuous advances in computation and communication technologies has led to a rapidly expanding cyber-threat landscape. In today's world, communication and information systems are increasingly indispensable to society. We can observe this from the global adaptation to remote working, schooling, and health care, for example, over the past 18 months. This growing reliance on communication infrastructure and information systems has been recognised and exploited by cyber attackers. Security has become more critical and challenging with the extent of content, devices, and users connected to the public Internet for almost every aspect of day-to-day living. This trend will inevitably continue in the future.

Motivated by the challenging cyber threat landscape and cyberattacks, this symposium welcomes manuscripts on all aspects of the modeling, design, implementation, deployment, and management of security algorithms, protocols, architectures, and systems. Furthermore, contributions devoted to the evaluation, optimization, or enhancement of security and privacy mechanisms for current technologies, as well as devising efficient security and privacy solutions by leveraging futuristic technologies, are solicited. High quality papers reporting on applications of communications theory to security and privacy from both industry and academia are encouraged.

Topics of Interest

The Communication & Information System Security Symposium seeks original contributions in the following topical areas, plus others that are not explicitly listed but are closely related:

- · Adversarial machine learning
- · Anonymous communications, metrics, and performance
- · API security
- · Applied cryptography for cyber, information, and network security

- Artificial Intelligence and Machine Learning applied to security and privacy
- Attack prediction, detection, response, and prevention
- Authentication protocols and key management
- Blockchain security
- Cellular network security and privacy (5G and beyond)
- Cloud, data center and distributed systems security
- Connected and autonomous vehicle security
- Emerging technologies and methods for information, cyber, and network security
- Formal trust models, security modeling, and the design of secure protocols
- Future Internet Architecture (FIA) security and privacy
- Internet of Things (IoT) security and privacy
- Malware detection and damage recovery
- Programmable network security
- Security and privacy in the Age of Information (AoI)
- Security for mobile and wireless networks
- Security for next-generation networks
- Security in healthcare systems
- Security in smart grid communications
- Security of SDN-based IoT networks
- Security tools for communication and information systems
- Trust management in networks through emerging technologies
- Vehicular cloud and vehicular social network security

Important Dates

Paper Submission: 15 April 2022
Notification: 25 July 2022
Camera Ready and Registration: 1 September 2022

How to Submit a Paper

All papers for technical symposia should be submitted via EDAS. Full instructions on how to submit papers are provided on the IEEE Globecom 2022 website: https://globecom2022.ieee-globecom.org/