

Call For Papers

The 24th IEEE International Conference on High Performance Computing & Communications (HPCC-2022)

Special Session: Security and Privacy for Next-Generation Wireless Networks

With the rapid development of wireless communication technology, it is deployed to a variety of environments such as Industrial Internet of things, Internet of Vehicles, smart home, Wireless Body Area Network, etc. The information quantity in these environments has been increasing so quickly that it has become more and more urgent to run in Next-Generation Wireless Networks (NGWN) like 5G and beyond. However, its high data transmission rate, high frequency spectrum utilization rate, and ultra-dense deployment of heterogeneous networks may pose many critical challenges for protecting people's security and privacy. How to efficiently use valuable NGWN resources, and ensure the security and privacy of NGWN environment has become a research hotspot.

Hence, designing a communication protocol with ultrahigh throughput, ultra-low latency, high reliability, low-cost devices, and quality of service to ensure people's growing security and privacy requirements is crucial for the development of next-generation wireless networks. This special section was aimed at offering an overview of the state-of-the-art in security and privacy protection technologies and research advances for the communication systems in NGWN.

This is a special session of the 24th IEEE International Conference on High Performance Computing & Communications (<http://www.ieee-hpcc.org/2022/>) Please submit your paper via the submission site (<https://edas.info/N29969>) . The topics of interests for this special issue include, but are not limited to:

- Security and privacy protection technologies for collecting data
- Data storage and integrity protection
- Authentication and access control
- Data forensics
- Privacy protection for data sharing
- Privacy aware analysis and retrieval
- Intrusion detection and transmission surveillance
- Privacy-preserving computing
- Endogenous Safety and Security
- Security/privacy issues related to machine learning

Organizers

General Co-Chairs
Ruidong Li, National Institute of Information and Communications Technology, Japan, liruidong@ieee.org Xianhua Niu, Xihua University, China, rurustef.work@gmail.com
Technical Program Co-Chairs
Debiao He, Wuhan University, China, hedebiao@whu.edu.cn Fagen Li, University of Electronic Science and Technology of China, China, fagenli@uestc.edu.cn Chen Yuan, Shanghai Jiao Tong University, China, chen_yuan@sjtu.edu.cn Yue Zhao, Science and Technology on Communication Security Laboratory, China, yuezhao@foxmail.com Shengke Zeng, Xihua University, China, zengshengke@gmail.com
Local Co-Chairs
Ling Xiong, Xihua University, China, lingdonghua99@163.com

Important Dates:

Paper Submission Due: 01 September, 2022

Authors Notification: 15 October, 2022

Final Manuscript Due: 10 November, 2022