

**Title:**

Emerging Technologies for Cyber Attack and Defense Confrontation

**Abstract:**

Attack and defense confrontation technology has always been an important topic in the field of cyber security. During the last few years, the evolution of scale and equipment capabilities (e.g. smart devices) of the cyberspace keeps changing the hot scenes of cyber attack and defense. The continuous developed technologies of mobile network, Internet of Things, social networks, and blockchain keeps generating new cyber attack and defense problems and scenarios. The emergence technologies of big data and deep learning also provide promising data analysis and process capabilities. Therein, the evolution of the cyberspace and involved technologies are bringing brand-new opportunities and challenges to the original cyber attack and defense confrontation. And such opportunities keep promoting the cyber attack and defense confrontation technologies.

The objective of this workshop is to discuss and explore the recent hot topics related to cyber attack and defense confrontation. We cordially invite researchers in industry and academia to share and present their recent insights and emerging results of the cyber attack and defense problems. This workshop has special interest in the cyber attack and defense researches in the field of big data, Internet of Things, block chain, social networks, artificial intelligence, mobile networking, and cloud computing.

**Scope and Topics:**

Potential topics include but are not limited to:

- ✧ Traffic data analysis for cyber attack and defense
- ✧ Block chain Technologies
- ✧ Cloud security
- ✧ Cloud Data Protection
- ✧ Artificial intelligence for cyber attack and defense
- ✧ IOT security technologies
- ✧ Attack detection and defense architectures for adhoc and mobile networks
- ✧ Cyber attack and defense technologies for smart devices and vehicle networks
- ✧ Data processing and analysis for social network security
- ✧ Deep learning methods for intrusion detection
- ✧ Anonymous communication
- ✧ Network representation-related NLP applications

**Program Committee Chairs:**



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Hui Lu received the Ph.D. degree in engineering from Beijing University of Posts and Telecommunications. He is a professor and the director of Fang class at Guangzhou University's Cyberspace Institute of Advanced Technology, the secretary-general of The Cyberspace Security Talent Education Alliance of China(CEAC), the director of the Competition and Exercise Working Committee of Cybersecurity Association of China(CSAC), the executive member of the 11th competition committee of the Guangdong Computer Academy, a talent listed into "100 Talents Program" of Guangzhou University, an expert member of Ping An Academy of Financial Security and a member of the technical committee of the big data security talent cultivation base of Cybersecurity Association of China. He is currently chairing a general program under the National Natural Science Foundation of China (NSFC), and responsible for the Guangdong Provincial Key Area Research and Development Program "Key Technologies for Automated Cyber Attack and Defense of New Infrastructure" as the executive director. As a representative of his research team, he established the "Guangdong Province Joint Postgraduate Training Demonstration Base" with Peng Cheng Laboratory. His research results have been published in more than 60 papers in domestic and international journals and conferences. His research interests mainly include artificial intelligence security, network security, vulnerability mining.

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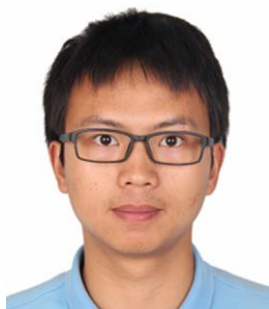
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