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 block chain keeps bringing new cyber attack and defense problems. 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

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Chao Yang graduated from Texas A&M University. His research interest is applying big data and artificial intelligence technologies to enterprise security. He has more than 10 years' experience on academia and industry, and invented a number of patents. He has published 15 top conference and journal papers, which have been cited for more 600 times.

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Yanbin Sun, received the B.S., M.S. and Ph.D degree in Computer Science from Harbin Institute of Technology (HIT), China. He is currently an assistant professor in Guangzhou University, China. Previously, he worked as a lecturer in Jinan University. His research interests include network security, industrial control system security, future networking. He has published more than 30 academic papers, and has headed and participated in several national and provincial researches.

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Shen Su, Assistant Professor, Guangzhou University. He received his B.E, M.E., and PH.D. degree from Harbin Institute of Technology. His research interests include route modelling, route security, cyber range, vehicular networks, wireless sensor networks. He has published more than 20 journal and conference papers in such areas. He has served as the key staff in a number of projects from National Natural Science Foundation of China, National Key Research and Development Program, National 973 Project.

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