

BigCyberSecurity 2019

The 1st IEEE International Workshop on Big Data Analytics for Cyber Security and Defence

In conjunction with 4th IEEE Cyber Science and Technology Congress (CyberSciTech 2019)
August 5-8, 2019, Fukuoka, Japan

CALL FOR PAPERS

Due to the rising intensity of cyber-attacks, information leakage incidents and other security breaches are continuously occurring and result in huge financial losses and other detrimental consequences. Therefore, it is urgent to protect cyber systems including hardware, software and data against advanced cyber-attacks such as zero-day attacks and advanced persistent threats. Cyber-attacks are becoming more sophisticated and difficult to detect and fight. Big data analytics is an appealing idea to address this challenge, which is effective for examining and detecting irregularities and abnormal patterns. Big data analytics for cyber security and defense involve the ability to collect and gather massive amounts of data in multiple sources (e.g., Internet, network traffic, and online social networks), the ability to identify, analyze, and validate security vulnerabilities, and the ability to predict, detect, and stop cyber-attacks. The goal of the workshop is to bring together a community of researchers and practitioners who study problems at the intersection of cyber science, data science, security, and network science.

TOPICS:

Workshop suggested topics include, not exhaustively, empirical and theoretical studies of the following:

- System security
- IoT security
- Network security
- Hardware security
- Mobile and cloud computing security
- Social network security
- Anomaly & Intrusion Detection
- Data-driven security and measurement studies

Program Chairs:

Pinghui Wang

Xi'an Jiaotong University, China
(phwang@mail.xjtu.edu.cn)

Yanhua Li

Worcester Polytechnic Institute, USA
(yli15@wpi.edu)

Technical Program Committee

Mingshen Sun, Baidu X-Lab, USA

Yongkun Li, University of Science and Technology of China, China

Bo Jiang, Shanghai Jiaotong University, China

Tao Qin, Xi'an Jiaotong University, China

Hong Xie, Chongqing University, China

Wei Song, North China University of Technology, China

An Liu, Soochow University, China

Hailong Liu, Northwestern Polytechnical University, China

Kechao Cai, The Chinese University of Hong Kong, Hong Kong

Junzhou Zhao, King Abdullah University of Science and Technology, Saudi Arabia

Dongyao Jia, University of Queensland, Australia

Haixia Peng, University of Waterloo, Canada

Dongfeng Fang, University of Nebraska-Lincoln, USA

Important Dates

Submission Due: **April 30, 2019**

Authors Notification: **May 25, 2019**

Camera-ready: **June 20, 2019**

Submission:

All accepted papers will be published by IEEE in Conference Proceedings (IEEE-DL and EI indexed).

[Link](#)