

Title:

Advances in Software-Defined Networking and Security

Abstract:

In recent years, Software-Defined Networking (SDN) has drawn great attention from both academia and industry. SDN separates the control functions from the underlying physical network by decoupling the control and data planes. It promises improved programmability, ease of deployment, management, reduced costs, flexibility and fine-grain control of traffic. SDN has been deployed in a large and growing number of experimental and production networks, such as enterprise data centers, campus networks, telecommunication networks, clouds, and online service provider networks. A variety of new applications have been developed, including network virtualization, responsive traffic engineering, dynamic access control, and seamless mobility support. Furthermore, how does this widespread adoption of SDN impact on network security, especially with an increased attack surface implied by virtualization? There has been a growing interest in innovative uses of SDN to offer fine-grained control and strategies over network-based security functions.

Scope and Topics:

In this workshop, we aim to explore and debate recent advances related to all aspects of SDN, especially security in SDN. We invite researchers to submit high quality papers with new ideas for SDN design, development, testing, evaluation, and so on. At the same time, the methods and approaches for SDN security are also welcomed by us. The workshop solicits novel papers on a broad range of topics, including but not limited to:

- ✧ New software/hardware implementations supporting SDN
- ✧ Improvements on SDN designs, developments and deployments
- ✧ Debugging, testing and evaluation of SDN
- ✧ Network Function Virtualization and SDN
- ✧ Security issues and enhancements in SDN
- ✧ Security applications over SDN

Program Committee Chairs:

Jiangyuan Yao, Hainan University, China

yaojy@hainu.edu.cn

<https://www.linkedin.com/in/jiangyuan-yao/>

Jiangyuan Yao, received the B.E, M.E and Ph.D. degrees from Shandong University of Science and Technology, Beijing Jiaotong University and Tsinghua University, in

2007, 2009 and 2015, respectively. He is now working in the College of Information Science & Technology, Hainan University. His research interests include protocol testing and cyberspace security.

Zhiliang Wang, Tsinghua University, China

wzl@cernet.edu.cn

<http://netarchlab.tsinghua.edu.cn/~wzl/index.html>

Zhiliang Wang received the B.E., M.E. and Ph.D. degrees in computer science from Tsinghua University, China in 2001, 2003 and 2006 respectively. Currently he is an Associate Professor in the Institute for Network Sciences and Cyberspace at Tsinghua University. His research interests include formal methods and protocol testing, next generation Internet, network measurement.

Arun Kumar Sangaiah, VIT University, India

arunkumarsangaiah@gmail.com

<https://in.linkedin.com/in/dr-arun-kumar-sangaiah-081452a9>

ARUN KUMAR SANGAIAH had received his Ph.D. degree in computer science and engineering from the VIT University, Vellore, India. He is presently working as an associate professor in School of Computer Science and Engineering, VIT University, India. His area of interest includes software engineering, computational intelligence, wireless networks, bio-informatics, and embedded systems.

Program Committee:

Haijun Geng, Shanxi University, China

Guangwu Hu, Shenzhen Institute of Information Technology, China

Fuliang Li, Northeastern University, China

Changhua Pei, Ali Research Institute, China

Meng Shen, Beijing Institute of Technology, China

Chunjie Cao, Hainan University, China

Xingang Shi, Tsinghua University, China

Wenqi Sun, Huawei Technologies Co., LTD, China

Tian Pan, Beijing University of Posts and Telecommunications, China

Ming Wan, Liaoning University, China

Sen Wang, Chongqing University, China

Chunyang, Ye, Hainan University, China

Yang Xu, New York University, USA

Shenglin Zhang, Nankai University, China

Yu Zhang, Hainan University, China