Distributed Denial of Service Attack Detection and Countermeasures

SPEAKER　**Prof Jie LI**

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6th Floor, Yellow Zone
Yeung Kin Man Academic Building
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ABSTRACT

The Distributed Denial of Service (DDoS) is a cyber-attack that makes network resources unavailable by overwhelming it with large traffic from multiple sources. In a typical DDoS attack, there may be millions of fake requests which run out the network resources. Nowadays, the scalability and traffic of networks grow explosively, which make the DDoS attack detection more complicated and challenging. In this talk, we will present some novel DDoS detection and countermeasure methods for large-scale and complicated computer networks including Software-Defined Networks and large-scale Internet. The conventional and big data frameworks such as Hadoop and Spark will be considered too. The experimental results will also be presented.

BIOGRAPHY

Prof Jie Li received the B.E. degree in Computer Science from Zhejiang University, Hangzhou, China, and the M.E. degree in Electronic Engineering and Communication Systems from China Academy of Posts and Telecommunications, Beijing, China. He received the Dr. Eng. degree from the University of Electro-Communications, Tokyo, Japan. He is with Faculty of Engineering, Information and Systems, University of Tsukuba, Japan, where he is a Professor. His current research interests are mobile distributed computing and networking, big data and cloud computing, network security, OS, modeling and performance evaluation of information systems. He was a visiting Professor in Yale University, USA, Inria Sophia Antipolis, France and Inria Grenoble – Rhone – Aples, France. He is a senior member of IEEE and ACM and a member of IPSJ (Information Processing Society of Japan). He serves as an associated editor for many international journals and transactions such as IEEE IoT Journal, IEEE Access Journal, IEEE Trans on TVT, and IEEE Trans on Cloud Computing. He is the founding Chair of Technical Committee on Big Data (TCBD), IEEE ComSoc. He has also served as the program committees for several international conferences such as IEEE INFOCOM, IEEE GLOBECOM, and IEEE MASS.

All are welcome!