Title:

Secure Cloud Computing: Technologies and Applications

Abstract:

Cloud computing and its applications have attracted great attention from both academia and industry in the past few years. Cloud computing offers powerful data storage and large-scale processing capabilities for users with the help from third-party centers. The benefits for users are obvious, such as efficient on-the-move data access and sharing can be enabled, the local expenditure cost on hardware and software can be saved, and the burden of complicated data storage management can be relieved.
When user data are hosted on public cloud centers, the owner would lose the ability to physical access and control these data. Usually data users are not confident that cloud centers always provide secure and trusted services. Thus, cloud computing raises many security and privacy concerns to users in some fields including data confidentiality, integrity, security, availability, access control, and secure computing. To address these issues, some technologies and protocols have been proposed. This workshop aims to solicit the latest advances in securing cloud computing from both industry and academic researchers, and offers a platform to exchange their ideas and experiences.

Scope and Topics:

This workshop encourages submissions on both theoretical technologies and practical applications. Topics of interests include but are not limited to the following aspects:

- Innovative techniques for IoT infrastructure security
- coding and cryptography in secure cloud computing
- privacy and integrity mechanisms for cloud computing
- secure computation outsourcing technologies
- availability for outsourced data
- secure data sharing and access control in clouds
- secure data deletion in clouds
- secure data migration in clouds
- secure computation on outsourced data
- key management in data outsourcing
- security for emerging cloud computing applications

Program Committee Chairs:

Yong Ding, Guilin University of Electronic Technology, China
stone_dingy@126.com

Yong Ding received his PhD in Cryptography from the School of Communication Engineering, Xidian University, China, in 2005. He is currently a Professor at School of Computer Science and Information Security, Guilin University of Electronic Technology, China. He was a research fellow of Computer Science at City University of Hong Kong from April, 2008 to September, 2009. His research interests include cryptography and information security.

Zhangjie Fu, Nanjing University of Information Science and Technology, China
fzj@nuist.edu.cn
Zhangjie Fu received his PhD in computer science from the College of Computer, Hunan University, China, in 2012. He is currently an Associate Professor at School of Computer and Software, Nanjing University of Information Science and Technology, China. He was a research fellow of Computer Science and Engineering at State University of New York at Buffalo from March, 2015 to March, 2016. His research interests include Cloud Security, Outsourcing Security, Digital Forensics, Network and Information Security. His research has been supported by NSFC, PAPD, and GYHY.

Sheng Wen, Swinburne University of Technology Australia, Australia
swen@swin.edu.au
Dr Sheng Wen has been working full-time as a Senior Lecturer in Swinburne University of Technology since October 2017. Before that, he first served as a research fellow and then Lecturer in Deakin University after he submitted his doctoral thesis in April 2014. As an excellent early career researcher, Dr Sheng Wen has achieved many outstanding research works in the last six years in the fields of information security, epidemic modelling and source identification. His representative research outcomes have been mainly published on top journals, such as IEEE Transactions on Computers (TC), IEEE Transactions on Parallel and Distributed Systems (TPDS), IEEE Transactions on Dependable and Secure Computing (TDSC), IEEE Transactions on Information Security and Forensics (TIFS), and IEEE Communication Survey and Tutorials (CST). Now, he is working tightly with Prof. Wanlei Zhou and Prof. Yang Xiang, and devote himself to build an Australian top research lab in the system security field.

Program Committee:

Biao Wang, University of International Relations, China
Lin Li, Beijing Jiaotong University, China
Debiao He, State Key Lab of Software Engineering, Wuhan University, China
Fagen Li, University of Electronic Science and Technology of China, China
Zhengtao Jiang, Communication University of China, China
Haibo Tian, Sun Yat-Sen University, China
Zhenhua Chen, Xi'an University of Science and Technology, China
Hao Peng, Zhejiang Normal University, China, China
Xingbing Fu, Hangzhou Dianzi University, China

Jianhong Zhang, North China University of Technology, China
Yujue Wang, Guilin University of Electronic Technology, China