

Title:

Cryptography and Cloud Security

Abstract:

Cryptography plays an essential role in ensuring many security properties required in data processing of various kinds. The theme of this workshop is novel cryptosystem technologies for solving a wide range of real-life application problems. The purpose of the workshop is to solicit existing research advances in the (potential) use of encryption and signature in the cloud security field, as well as propose novel technical solutions for cloud data sharing, provenance, etc.

Scope and Topics:

The objective of this workshop is to invite authors to submit original manuscripts that demonstrate and explore current advances in all aspects of cryptography and security of cloud server systems. The workshop solicits novel papers on a broad range of topics, including but not limited to:

- ✧ Public-Key Cryptography
- ✧ Signatures
- ✧ Secure Protocols
- ✧ Blockchain and its Applications
- ✧ Security Evaluation and Benchmarks Based on Cloud
- ✧ Security Policy, Security Theory and Models Based on Big Data
- ✧ Authentication, Authorization and Reliability Issues in Cloud
- ✧ Security and Privacy in Cloud Computing
- ✧ Information Security and Risks Management
- ✧ Machine Learning for Security
- ✧ Security, privacy and trust in Big data

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Dr. Huang got his PhD degree from City University of Hong Kong. After graduation he joined South China Agricultural University. Now he is a professor at College of Mathematics and Informatics. His main interests include applied cryptography, cloud security, big data privacy and etc. He has published more than 80 papers in information security related international conferences and journals, and served as Principal Investigator of several grants, including grants from NSFC, NSF GD and Ministry of Education. Dr. Huang is also very active in the academic community, and

has served as PC member for nearly 40 international conferences and as peer reviewer for more than 30 international journals. He is a member of IACR, CACR, CCF and several other associations, and is a vice director of several committees of Computer Academy of Guangdong. He is also a recipient of Guangdong Natural Science Funds for Distinguished Young Scholar, Young Teacher Award by Fok Ying Tong Education Foundation, and Pearl River Nova Program of Guangzhou.

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Dr. Guomin Yang is a Senior Lecturer at the School of Computing and Information Technology, University of Wollongong (UOW), Australia. He was admitted to the Mathematics Department of Fudan University in 1999, and moved to City University of Hong Kong in 2000 after being awarded the Hong Kong Jockey Club Scholarship. He received the Bachelor, Master and PhD degrees in Computer Science from City University of Hong Kong in 2004, 2006 and 2009, respectively. Before joining UOW in 2012, he was a Research Scientist at the Temasek Laboratories, National University of Singapore. Dr. Yang's research interests are applied cryptography and network security. He has published over 100 research papers that have appeared at many respected venues such as IEEE Transactions on Information Forensics & Security, ACM Transactions on Information & System Security, CRYPTO, ASIACRYPT, PKC, CT-RSA, ESORICS, etc. He is an editorial board member of Theoretical Computer Science (Elsevier) and an IEEE Senior Member. In 2015, he received the Australian Research Council Discovery Early Career Researcher Award.

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