



Title:

Multimedia Watermarking and Privacy Protection in Cloud Computing

Abstract:

Cloud computing is a kind of Internet-based service which provides configurable resources to the users in a pay-as-you-go manner. With the rapid development of cloud computing technologies, a growing number of individual and organizations choose to store and deal with their data on cloud computing platform. However, the outsourcing of multimedia data storage and computing cause many new privacy and copyright protection issues. There are some notable shortcomings in research methodologies. Current studies for the multimedia privacy protection are often based on the strict conditions that are nearly impossible to meet up advanced cloud computing environment. Furthermore, the high computational complexity of the current methods makes it hard to handle the multimedia big data in the cloud computing environment.

This workshop intends to collect high-quality research contributions to address the multimedia watermarking and privacy protection in cloud computing, with a particular emphasis on novel and highly efficient methodologies that have the potential to be used in cloud environment.

Scope and Topics:

Potential topics include but are not limited to:

- ✧ Secure multimedia processing in cloud computing
- ✧ Secure classification in cloud computing
- ✧ Secure data mining in cloud data
- ✧ Searchable encryption
- ✧ Access control mechanisms on cloud data
- ✧ Security protocols in cloud computing
- ✧ Copyright protection in cloud computing
- ✧ Multimedia forensics in cloud computing
- ✧ Secure multimedia distribution in cloud computing
- ✧ Watermarking in encryption domain
- ✧ Information hiding in cloud computing
- ✧ Privacy-preserving multimedia forensics...

Program Committee Chairs:

Name, Affiliation, Country

Email: xxx@xxx.com

Homepage: <http://xxx.edu.cn/~xxx>



Bio: Short biography of each chair (one paragraph), (at least one chair comes from overseas).

Example:

Chen Qian, University of California Santa Cruz, USA

cqian12@ucsc.edu

<https://users.soe.ucsc.edu/~qian/>

Chen Qian received his B.S. degree from Department of Computer Science, Nanjing University in 2006, an M.S. degree from Department of Computer Science and Engineering at Hong Kong University of Science and Technology in 2008, and the Ph.D. degree in computer science from University of Texas at Austin in 2013. He is currently services as an assistant professor in the Department of Computer Engineering at University of California Santa Cruz. His research interests include IoT, fog & cloud computing, SDN, security & privacy, RFID and mobile computing and funded \$250,000 by NSF on research of IoT. His publications achieve 900 plus citations according to Google Scholar. He has served on the technical program committees for several IEEE/ACM conferences on wireless networking and security.

Program Committee:

Yun-Qing Shi, New Jersey Institute of Technology, USA

shi@njit.edu

<https://web.njit.edu/~shi/>

Yun-Qing Shi has joined New Jersey Institute of Technology, USA, since 1987. He obtained M.S. degree from Shanghai Jiao Tong University, China; Ph.D. degree from University of Pittsburgh, USA. His research interests include data hiding, forensics and information assurance, visual signal processing and communications. He is an author/coauthor of more than 300 papers, one book, five book chapters, and an editor of 10 books, 3 special issues and 15 proceedings. He holds 30 US patents, and obtained Innovators Award 2010 by New Jersey Inventors Hall of Fame for Innovations in Digital Forensics and Security, his US patent 7,457,341 entitled "System and Method for Robust Reversible Data Hiding and Data Recovery in the Spatial Domain" won 2010 Thomas Alva Edison Patent Award by Research and Development Council of New Jersey. He serves as an associate editor of IEEE Transactions on Information forensics and Security, and an editorial board member of a few journals; has served as an associate editor of IEEE Transactions on Signal Processing and IEEE Transactions on Circuits and Systems (II); the technical program chair of IEEE ICME07, a co-technical chair of IWDW since 2006, and IEEE MMSP05, a co-general chair of IEEE MMSP02, a Distinguished Lecturer of IEEE CASS. He is a member of a few IEEE technical committees, and a Fellow of IEEE since 2005.

Wei Song, Minzu University of China, Beijing, China

songwei@muc.edu.cn



Wei Song received his BS in electronic science and technology from Beijing Jiaotong University, China, in 2006, and PhD in traffic information engineering and control from Beijing Jiaotong University, China, in 2010. He was a postdoctoral researcher at the department of computer science and technology, Tsinghua University, China, from 2012 to 2014. He is an associate professor at the school of Information Engineering, Minzu University of China, China. His research interests include digital image processing and network security.

Lizhi Xiong, Nanjing University of Information Science and Technology, China
xionglz@nuist.edu.cn

Lizhi Xiong received the PhD degree in communication and information system from Wuhan University, China, in 2016. He works as an assistant professor in School of Computer and Software, Nanjing University of Information Science and Technology. His research interests include digital forensic and encrypted image processing.

Zhuhua Xia, Nanjing University of Information Science and Technology, China
xia_zhuhua@163.com

Zhuhua Xia received the BS degree in Hunan City University, China and PhD degree in computer science and technology from Hunan University, China, in 2006 and 2011, respectively. He works as an associate professor in School of Computer and Software, Nanjing University of Information Science and Technology. His research interests include digital forensic and encrypted image processing. He has published 20 more paper in some excellent journals such as IEEE TIFS, IEEE TPDS, and IEEE TCC.

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