

Title:

Security and Privacy in Multimedia

Abstract:

A vast amount of multimedia, like images, audios, videos and personal information, can be created in a short period of time with the rise of modern web and social media. When all these data are stored in a cloud environment, individuals can connect to these applications or services for viewing, sharing, commenting, and storing information. Multimedia in a cloud environment plays a significant role in many people's daily life, since their updates, status, locations, and live actions can be seen, even disseminating, tracking, and monitoring in real time become possible. Increased fraudulent activities, cybercrimes, unauthorized access, malicious attacks and impersonating/stealing identities greatly threaten the security and privacy in multimedia. This presents challenges for research areas such as multimedia encryption, signal processing in encrypted multimedia, digital watermarking, steganography, digital forensics, copyright protection, and privacy preserving in the cloud environment.

Scope and Topics:

The goal of this workshop is to bring forward recent advances in the area of multimedia security and privacy. We invite latest and high-quality papers presenting or addressing the following issues, but not limited to:

- ✧ Signal processing in encrypted domain
- ✧ Encryption of all types in multimedia, including homomorphic encryption and multi-party computation
- ✧ Forensics and counterforensics
- ✧ Steganography and steganalysis
- ✧ Covert and subliminal channels
- ✧ Watermarking, data hiding and fingerprinting
- ✧ Machine learning and deep learning in multimedia security
- ✧ Emerging privacy and security threats in multimedia

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Shijun Xiang received his B.S. degree from Chang'an University, China, in 1997, M.S. degree from Guizhou University, China, in 2000, and Ph.D. degree from Sun Yat-Sen University, Guangzhou, P.R. China, in 2006. From October 2006 to September 2007, he was a Postdoctoral researcher in Korea University, Seoul, Korea. From October 2007 to June 2008, he was a Postdoctoral fellow in Sun Yat-Sen University, P.R.

China. He is currently a full professor in the School of Information Science and Technology at the Jinan University of Guangzhou in China. He has published more 60 peer-reviewed papers including IEEE TCSVT and IEEE TMM, received the Best Student Paper Award at IWDW2016. His research interests include robust watermarking, reversible data hiding, secure signal processing in encrypted domain, and face spoofing.

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Ruili Wang received the Ph.D. degree in computer science from Dublin City University, Dublin, Ireland. He is currently a full Professor with the Institute of Natural and Mathematical Sciences, Massey University, Auckland, New Zealand, where he is the Director of the Centre of Language and Speech Processing. His current research interests include speech processing, language processing, image processing, data mining, and intelligent systems. Dr. Wang serves as an Associate Editor for IEEE Transactions on Emerging Topics in Computational Intelligence, Knowledge and Information Systems (Springer) and Health Information Science and Systems (Springer). He also serves as an Editor board member of Applied Soft Computing (Elsevier), Neurocomputing (Elsevier), and Complex and Intelligent Systems (Springer). He was a recipient of the most prestigious research grants in New Zealand, i.e., the Marsden Fund.

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Weiming Zhang received his B.S. degree and PH.D. degree in 1999 and 2005 respectively from Information Engineering University, Zhengzhou, China. Currently, he is a professor with the School of Information Science and Technology, University of Science and Technology of China. His research interests include information hiding, multimedia security, and privacy-preserving data searching and analysis. He has published more than 100 papers in journals and conferences including IEEE TIT, TIFS, TIP, TCSVT, TMM.

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Xiaolong Li received the B.S. degree from Peking University (China), the M.S. degree from Ecole Polytechnique (France), and the Ph.D. degree in mathematics from ENS de Cachan (France), in 1999, 2002, and 2006, respectively. He worked as a postdoctoral fellow and then a researcher at Peking University in 2007–2016. He is currently a Professor with the Institute of Information Science, Beijing Jiaotong University. His research interests are image processing and information hiding.

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