

**Title:**

International Workshop on Visual Privacy and Forensics in Big Data

**Abstract:**

Traditional multimedia forensic and security techniques proposed in the last decade adopt very limiting and simplifying working conditions. With big data requirements on the table, forensics and security experts need to deal with shear amounts of data in different operational and acquisition conditions.

One of these conditions is visual privacy. As mounting personal information accumulated in the network, there is a growing consensus that the threat of privacy leaks is the most fatal flaw of existing big data technologies. Being an intuitive kind of data, however, visual privacy is going unheeded in most case. There are urgent needs of new paradigms and methods on visual privacy protection and forensics.

Not only that, but more possibilities have arisen due to the development of big data in other related visual domains, e.g. biometrics, information hiding, image and video collection forensics, porn detection, digital triage of image and video evidence, etc.

This workshop invites researchers in all related fields (including but not limited to signal processing, machine learning, computer vision, cyber security, digital forensics, privacy protection) to join us in a quest for the next-generation image and video forensics and security solutions, capable of processing image and video data using the recently-developed deep learning paradigm and other new learning techniques. ALL submissions must highlight their machine-learning based approach and discuss how their solutions deal with large collections of data. The core data used in your work should be visual data (images and videos). The topics of interest of this Special Issue are listed below. The list is not exhaustive and prospective authors should contact the editors in case of any question. Submissions can contemplate original research, serious dataset collection and benchmarking, or critical surveys.

**Scope and Topics:**

- ✧ Biometrics and counter-spoofing
- ✧ Content-protection and counter-protection
- ✧ Counter forensics
- ✧ Cyber threat analysis for image and video data
- ✧ Forensic data fusion (if at least one source contains images and videos)
- ✧ Forensics on visual privacy
- ✧ Image and video collection forensics
- ✧ Incident response related to image and video data
- ✧ Multimedia evidence recovery and validation
- ✧ Multimedia forensics (forgery detection, attribution, CGI classification)
- ✧ Surveillance for forensics and security applications
- ✧ Visual analytics for forensics and security Applications



- ✧ Visual information hiding: designs and attacks
- ✧ Visual privacy protection.

### **Program Committee Chairs:**

**Shijun Xiang**, Jinan University, Guangzhou, China

Email: [Shijun.Xiang@qq.com](mailto:Shijun.Xiang@qq.com)

Bio:

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.

**Wei Lu**, Sun Yat-sen University, China

Email: [luwei3@mail.sysu.edu.cn](mailto:luwei3@mail.sysu.edu.cn)

Bio:

Wei Lu received the B.S. degree in Automation from Northeast University, China in 2002, the M.S. degree and the Ph.D. degree in Computer Science from Shanghai Jiao Tong University, China in 2005 and 2007 respectively. He was a research assistant at Hong Kong Polytechnic University from 2006 to 2007. He is currently an Associate Professor with the School of Data and Computer Science, Sun Yat-sen University, Guangzhou, China. His research interests include multimedia forensics and security, information hiding, computer vision and machine learning.

**Ruili Wang**, Massey University, New Zealand

Email: [ruili.wang@massey.ac.nz](mailto:ruili.wang@massey.ac.nz)

Bio:

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.

**Weiming Zhang**, University of Science and Technology of China, Hefei, China

Email: [zhangwm@ustc.edu.cn](mailto:zhangwm@ustc.edu.cn)

Bio:

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.

**Xiaolong Li**, Beijing Jiaotong University, Beijing, China

Email: [lixl@bjtu.edu.cn](mailto:lixl@bjtu.edu.cn)

Bio:

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.

### **Program Committee:**

WeiQi Yan, Auckland University of Technology, New Zealand

Minoru Kuribayashi, Kobe University, Japan

Jiangqun Ni, Sun Yat-Sen University, China

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Guangjie Liu, Nanjing University of Science and Technology, China

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Di Xiao, Chongqing University, China

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Rangding Wang, Ningbo University, China

Rongrong Ni, Beijing Jiao Tong University, China

James C.N. Yang, National Dong Hwa University, China