Title:

Multimedia Security and Forensics 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. It relieves the companies from the IT-infrastructure construction and maintenance, and enables them to focus on their core business. 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 data storage and computing cause many new privacy and copyright protection issues. This workshop intends to collect high-quality research contributions to address the multimedia security and forensics problems in cloud computing.

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

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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

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