Title:

Content Protection, Analysis, and Forensics for Big Text Data

Abstract:

Modern Big Data increasingly appears in a variety forms, and text is a commonly used medium of information storage and transmission. Examples include the web pages, the formatted texts, the plain texts, the financial texts, the electronic bill, the short texts in social network, and etc.. These big text data have provided a lot of opportunities. However, big text data also brings many challenges about many problems of text security. This workshop aims to bring together researchers from different paradigms solving big problems under a unified platform for sharing their work and exchanging ideas.

Scope and Topics:

We are soliciting novel and original research contributions related to content protection, analysis, and forensics for big text data (algorithms, software systems, applications, best practices, performance). Significant work-in-progress papers are also encouraged. Papers can be from any of the following areas, including but not limited to:

- ✧ Big data text automation
- ✧ Text big data mining and deep learning
- ✧ Text watermarking and steganography
- ✧ Text steganalysis and forensics
- ✧ Coverless covert communication based on text documents
- ✧ Text content security based on big data environment
- ✧ Copyright protection for text documents
- ✧ Information tracking for text documents
- ✧ Electronic bill (ticket) security based on blockchain
- ✧ Financial information security
- ✧ Text data deduplication and storage security
- ✧ Sentiment analysis and opinion mining
- ✧ Encrypted text retrieval
- ✧ Text categorization and topic modeling
- ✧ Web, social media and computational social science
- ✧ Information retrieval
- ✧ Automatic text generation

Program Committee Chairs:

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Yuling Liu is an Associate professor of Hunan University. She obtained the Ph.D. degree from Hunan University. Her research interests include big text data, text steganography, natural language processing, information security, etc. By now, she has published more than 30 top-level papers.

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Jie Wang is a Professor in the Department of Computer Science at University of Massachusetts Lowell. He obtained the Ph.D in computer science from the Computer Science Department at Boston University in 1991, and was the Chair and Professor in the Computer Science Department at University of Massachusetts Lowell from Aug 2007 to Aug 2016. His research interests include network security, optimization algorithms, network-processor-based application performance modeling, big data text automation, etc. By now, he has published more than 100 top-level papers on the main international conference and journals.

Lingyun Xiang, Changsha University of Science and Technology, China
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Lingyun Xiang is a Lecturer in School of Computer and Communication Engineering at Changsha University of Science and Technology. She received her BE in computer science and technology, in 2005, and the PhD in computer application, in 2011, Hunan University, Hunan, China. She was a visiting scholar at University of Technology, Sydney in 2016. Her research interests include information security, steganography, steganalysis, machine learning, and pattern recognition. By now, she has published more than 40 papers on the main international conference and journals.

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