



Title:

Intelligent Data Management of Cloud Computing and IoT

Abstract:

Digital information and data have experienced rapid growth in many disciplines over the last decade as a consequence of the fourth digital information revolution. New technologies have facilitated the automatic and digital creation of more data. Thus, research data management (RDM), as well as digital curation and preservation, have become more important. Integration of data management and intelligent computing depth has become a pressing demand. The purpose of the workshop is to solicit existing research advances in the (potential) use of Artificial Intelligence (AI) in the data management of cloud computing and IoT, as well as propose novel technical solutions for data management, data sharing in cloud and IoT, data provenance of IoT, etc.

Scope and Topics:

Potential topics include but are not limited to:

- ✧ Intelligent data acquisition and storage
- ✧ Intelligent data cleaning and quality management
- ✧ Multi source data intelligent fusion
- ✧ Intelligent query processing and optimization of structured and unstructured data
- ✧ Intelligent retrieval of multimedia data
- ✧ Management of electronic record
- ✧ Evidential quality preserving of electronic record
- ✧ Intelligent data analysis and mining in cloud and IoT
- ✧ Intelligent analysis and mining of XML and graph data
- ✧ Intelligent management of spatio-temporal data
- ✧ Techniques of Secure Storage for Cloud Data
- ✧ Blockchain-based data management
- ✧ Distributed and parallel intelligent data management
- ✧ Data management and analysis supporting deep learning

Program Committee Chairs:

Yingchi Mao, Hohai University, China

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Bio: Prof. Yingchi Mao is a professor and the vice chair of College of Computer and Information at Hohai University. She received her PhD degree in the Computer Science and Technology Department at Nanjing University, China, in 2007. She is a



member of IEEE, and an executive member of ACM Nanjing Chapter. She is also an executive member of CCF Nanjing, and a committee member of CCF Distributed Parallel Computing and Systems. She has published over 50 peer-reviewed papers in wireless sensor networks, IoT, Cloud Computing. Her research has been supported from NSFC, the National Key Research and Development Program of China. Her research interests include data management and analysis in Cloud Computing, IoT, edge computing.

Jinyue Xia, International Business Machines Corporation (IBM), USA
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Bio: Dr. Jinyue Xia received his Ph.D. from the University of North Carolina in 2016, and the MS degree in the computer and science department at the NanJing University of Aeronautics and Astronautics, China, in 2009. Dr. Xia's research interests are applied cryptography and network security. He has published over 20 research papers that have appeared at many respected venues such as IEEE Transactions on Information Forensics & Security, ACM Transactions on Information & System Security, etc. Now, he is a senior researcher of IBM. He has served on the technical program committees for several IEEE/ACM conferences on data mining, data management and AI.

Yongjun Ren, Nanjing University of Information Science and Technology, China
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Bio: Dr. Ren obtained the PhD degree in the computer and science department at the NanJing University of Aeronautics and Astronautics, China, in 2008. He received the MS degree in Computer Science from Hohai University, and his BS degree in Automation from Jiangxi University of Science and Technology. Now he is serving as an associate professor in the NanJing University of Information science and Technology. His research interests include cloud data security, blockchain and management of electronic record.

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