Call for Papers
The Second International Workshop on Emergency Management in Big Data Age
(BIGEM 2014)
In conjunction with
The 15th International Conference on Web-Age Information Management (WAIM 2014)

http://www.cis.umac.mo/waim2014/

With the advances of information communication technologies, it is critical to improve the efficiency and accuracy of emergency management systems through modern data processing techniques. The past decade has witnessed the tremendous technical advances in Sensor Networks, Internet/Web of Things, Cloud Computing, Mobile/Embedded Computing, Spatial/Temporal Data Processing, and Big Data, and these technologies have provided new opportunities and solutions to emergency management.

Data processing/analysis in emergency management is a typical big data scenario. Numerous sensors and monitoring devices continuously sample the states of the physical world, while the web data processing techniques make the Internet a big data repository which can reflect the states of the cyber world and the human world. The efficient processing of these data imposes a challenge to the data management community. It is important to develop advanced data management and data processing mechanisms to support disaster detection, disaster response and control, rescue resource planning and scheduling, and emergency commanding.

The purpose of the BIGEM 2014 workshop is to provide a forum for researchers and practitioners to exchange ideas and progresses in the related areas. This workshop in WAIM conference addresses the challenges of emergency management based on advanced big data management technologies. This workshop will bring together researchers and practitioners in big data management, cloud computing, parallel algorithms, internet of things, spatial database, complex event detection, optimization theory, intelligent transportation systems and social networks to support disaster detection, response and rescue.

The BIGEM 2014 workshop welcomes papers that address fundamental research issues in this challenging area, with emphasis on personal and social applications of big data management and emergency management. We also encourage papers to report on system level research related to cloud computing, disaster detection, response and rescue. A number of invited papers will also be solicited.

Topics of interest include, but are not limited to:

- Agent-based modeling for emergency management
- Cloud computing in emergency management
- Data mining application in emergency management
- Decision support for emergency management
- Event detection techniques in emergency management
- Opinion mining and sentiment analysis for emergency management
- Prediction and decision in emergency management
- Rescue resource management in emergency management
- Resource planning and scheduling
- Statistical analysis on massive data for emergency management
- Spatial temporal data analytics in emergency management
- Web data analysis in emergency management

- Web data processing in emergency management
- Web of things in emergency management

Submission of Papers

Authors are invited to submit electronically original, English-language research contributions not concurrently submitted elsewhere. Accepted papers will be published by Springer as proceedings in Lecture Notes in Computer Science (LNCS). All submitted papers should be Springer LNCS camera-ready format. The style files are available from http://www.springer.de/comp/lncs/authors.html. All submissions files should be in PDF formats. The number of pages should not exceed 12 pages. Any paper more than 12 pages will be rejected. Please submit your paper(s) by email to weixu@ruc.edu.cn.

Important Dates

- Submission deadline: March 15, 2014.
- Author notification: April 5, 2014.
- Camera-ready deadline: April 15, 2014.

Organizing Committee

General Co-Chairs:

Xiaofeng Meng, Renmin University of China, China
Hui Zhang, Tsinghua University, China

PC Co-Chairs:

Yi Liu, Tsinghua University, China
Wei Xu, Renmin University of China, China

PC members:

Zhidong Cao, Institute of Automation, Chinese Academy of Sciences
Xiaolong Deng, Beijing University of Post and Telecommunication
Zhiming Ding, Institute of Software, Chinese Academy of Sciences
Danhuai Guo, Computer Network Information Center, Chinese Academy of Sciences
Hong Huang, Tsinghua University
Jianhui Li, Computer Network Information Center, Chinese Academy of Sciences
Kuien Liu, Institute of Software, Chinese Adademy of Sciences
Yi Liu, Tsinghua University
Xiangfeng Luo, Shanghai University
Xiaofeng Meng, Renmin University of China
Xiaogang Qiu, National University of Defense Technology
Feiyue Wang, Institute of Automation, Chinese Academy of Sciences
Wei Xu, Renmin University of China
Rui Yang, Tsinghua University
Dajun Zeng, Institute of Automation, Chinese Academy of Sciences
Hui Zhang, Tsinghua University
Lifeng Zhang, Renmin University of China