

Call for Papers
First International Workshop on Emergency Management in
Big Data Age
(BigEM'2013)
In conjunction with
The 14th International Conference on Web-Age Information Management
(WAIM'2013)

<http://idke.ruc.edu.cn/waim2013/>

With the advances of emergency management and information communication technologies, to improve the efficiency and accuracy of emergency management systems through modern data processing techniques becomes a crucial research issue. The past decade has witnessed the huge 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 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 huge data repository which can reflect the states of the cyber world and the human world. The efficient processing of these data imposes a big 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 this workshop is to provide a forum for researchers and practitioners to exchange ideas and progresses in the related areas. This is the first workshop in WAIM conference that 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.

This 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:

- Event detection techniques in emergency management
- Statistical analysis on massive sensor data
- Rescue resource management
- Resource planning and scheduling
- Management and query processing of sensor data
- Cloud computing in emergency management
- Decision support for emergency management
- Data mining of sensor stream data in emergency management
- Spatial temporal data processing in emergency management
- Web data processing in emergency management
- Web data analysis 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 [Springer LNCS site](#).

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.

Important Dates

- Apr. 20, 2013 (12 midnight PST time): Submission deadline
- Apr. 27, 2013: Acceptance notification
- Apr. 30, 2013: Submission deadline of camera-ready papers.

Organizing Committee

General Co-Chairs:

Feiyue Wang, Institute of Automation, Chinese Academy of Sciences
Xiaofeng Meng, Renmin University of China

PC Co-Chairs:

Zhiming Ding, Institute of Software, Chinese Academy of Sciences
Dajun Zeng, Institute of Automation, Chinese Academy of Sciences
Jianhui Li, Computer Network Information Center, Chinese Academy of Sciences

PC members:

Xiaofang Zhou, Univ. of Queensland, Australia
Hui Zhang, Tsinghua University, China
Xiaogang Qiu, National University of Defense Technology
Lifeng Zhang, Renmin University of China
Kian-Lee Tan, NUS, Singapore
Panos Kalnis, KAUST, Saudi Arabia
Zhidong Cao, Institute of Automation, Chinese Academy of Sciences
Yi Yang, CMU, U.S.A.
Rui Yang, Tsinghua University, China
Hong Huang, Tsinghua University, China
Hua Lu, Aalborg University, Denmark
Wei Xu, Renmin University of China
Jiajie Xu, Institute of Software, Chinese Adademy of Sciences
Chengfei Liu, Swinburne Univ. of Techonology, Australia
Julien Bourgeois, University of Franche-Comte, France
Kuien Liu, Institute of Software, Chinese Adademy of Sciences
Lei Chen, HKUST, Hong Kong
Michael Marschollek, PLRI, University of Braunschweig, Germany