



## CALL FOR PAPERS

**Special Issue on “Exploitation of Social Media for Emergency Relief and Preparedness” in the Journal [Information Systems Frontiers](#)**

## INTRODUCTION

In recent years, there have been several emergency events in various regions of the world, which includes natural disasters like earthquakes, cyclones, floods, fire, epidemics, as well as man-made disasters like terror attacks, riots, socio-political movements, and so on. In such scenarios, the Information Systems (IS) community has an important role in developing methodologies and systems for collecting, aggregating, and analyzing situational information in real-time, for helping *emergency relief* operations as well as for *emergency preparedness*, such as cyclone and tsunami warning systems, surveillance systems etc.

In today's world, Online Social Media (OSM), such as Twitter, Facebook and WhatsApp, are important sources of real-time information related to emergency events. Effective exploitation of the crowd-sourced content posted on OSM requires reliable real-time Information Systems. The objective of this special issue is to explore the multifarious aspects of effective information extraction and exploitation from social media, for emergency relief as well as emergency preparedness. The special issue will aim to bring together diverse research communities -- such as Information Retrieval, Data Mining and Machine Learning, Natural Language Processing, Computational Social Science, Human Computer Interaction, and so on -- who can potentially contribute towards building Information Systems for utilising social media for emergency relief and preparedness.

## **TOPICS**

The special issue solicits the submission of high-quality research papers related to the theme, which includes (but is not limited to):

- Retrieval and extraction of situational and actionable information from noisy OSM content
- Applications of data mining, NLP and machine learning on OSM content related to emergency events, including text and image content
- Aggregating information from multiple OSM and online / offline resources
- Addressing the code-mixed and informal vocabulary of OSM content
- Detection of events and emerging themes
- Real-time management and summarization of dynamic content streams
- Detection of rumors, and identification of trustworthy sources and information
- Geo-tagging and geo-localization of content and sources
- Social network models for information diffusion in emergency situations
- Identifying disaster-prone or accident-prone regions and infrastructures
- Crowdsourcing systems for emergency preparedness and disaster relief
- Mining interactions among emergency preparedness and relief groups
- Information Systems for visualization of emergency related information

High quality research papers that have neither been published previously nor are under consideration currently for publication in any other journal or conference are invited. Survey papers with superior quality are also invited in this area.

## **SUBMISSION INSTRUCTIONS**

Paper submissions must conform to the format guidelines of Information Systems Frontiers, available at: <http://www.springer.com/business/business+information+systems/journal>.

Submissions should be at most 30 double-spaced pages using 11-point font size, including all references.

## **IMPORTANT DATES**

Submission deadline: July 1, 2017

Notification of first round reviews: October 1, 2017

Revised Manuscripts due: December 1, 2017

Second Round Notification (if necessary): February 1, 2018

Final Version Due: March 1, 2018

Final Acceptance Notification: April 1, 2018

## **SPECIAL ISSUE EDITORS**

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