ISCRAM2012

Integrative and Analytical Approaches to Crisis Response and Emergency Management Information Systems

9th International Conference on
Information Systems for Crisis Response and Management

Morris J Wosk Centre for Dialogue
Simon Fraser University

www.iscram.org/iscram2012

TRACK: Geographic Information Science and Technology (GIS &T) for Crisis Response and Management

Introduction of the track

Catastrophic disasters events, either from human or natural origin, are increasing yearly. Geographic Information Science and Technology (GIS & T) plays an essential role to support and understand decision making, situation awareness and other disaster management activities. For example, GIS & T is essential for activities that include but are not limited to items such as (a) integrated command and control, (b) asset management (i.e., available man power and resources used to deal with an event), and (c) visual representation of crisis situations through maps.

In this interdisciplinary track, we invite GIS & T academicians, practitioners and system demonstrations that showcase applications of and research on GIS& T in any aspect of the disaster cycle

We are particularly interested in GIS & T papers on the topics of:
- Field Command and Control;
- Indoor spatial awareness;
- Localization awareness and indoor awareness;
- Crisis Mapping and Crowd-sourced Mapping,

encompassing all areas from data to operations, from system design to system operation, and enterprise applications to mobile systems.

Other track topics of interest include:

- Command and Control Systems;
- Common Operational Picture Systems;
- Crises response team as a field sensor;
- Localization (GPS, Galileo, Glonass, RFID, other);
- Security (image processing, video processing, security planning and implementation, others);
- Spatial Data Infrastructures;

- Volunteered Geographic Information (VGI) and Crisis Management
- Novel Uses of Geospatial Technologies (hardware, software, and applications) in Crisis Response and Management Activity (focus in themes like unmanned vehicles, positioning devices, measuring systems, others);
- Advanced Geographic Visualization;
- Geovisual Analytics (e.g. supporting analytical reasoning)
- Geocollaboration
- Web 2.0 Mapping Technologies (e.g., mapping mashup development, case studies) and Crisis Management
- Virtual Globes and Crisis Management (e.g., Google Earth, NASA WorldWind; Bing Maps)
- Spatial Modeling (e.g. spatiotemporal, agent-based modeling, 3D models, indoor, etc.)
- Geospatial databases (schema's, update, analyses, data collection)
- Spatial Decision Support Systems
- Standards and system interoperability;
- Geo-information driven process management and analysis (including process mining, geo-data driven process adaptiveness, etc);
- Geo-data quality.

Track Chairs

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Type of submissions

ISCRAM2012 is soliciting three types of submission:

1. Full research papers, which will be double blind peer reviewed. It is intended that these will report completed work which can be assessed to the highest academic standards. Such papers should be no more than 10 pages with figures & tables (~5000 words)

2. Work in progress and discussion paper which will be subjected to a light peer review to ensure clarity. Such papers should be no more than 5 pages with figures & tables (~2500 words)

3. Practitioner reports and discussions which raise issues, examples and case studies of importance in responding to and managing crises. Such paper will be subject to a light peer review to ensure clarity and should be no more than 5 pages with figures & tables (~2500 words)

Note that the designation of the paper and its reviewing will be indicated in the conference proceedings. Also we are not trying to create some concept of first and second quality papers. Rather we are aware that some report finished work which can be assessed in the sense of full peer review and contribution to research, while others offer ideas and thoughts which will stimulate discussion at ISCRAM conferences. The latter are vital if we are to make the conference valuable for shaping our subject. Full papers, work-in-progress papers and poster abstracts will be published in the proceedings.

> **Note that the ISCRAM paper template is available at**
> **www.iscram.org/iscram2012 under the "submissions" tab.**
> **All submissions must conform to ISCRAM formatting guidelines.**

Submission process and deadlines

Authors must submit papers and posters electronically at https://www.conftool.com/iscram2012/. All papers must use the ISCRAM MS Word template for papers. Deadlines for each submission format are listed below:

> ## Submission Deadline Schedule for Papers, Posters, and Doctoral Colloquium:
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> *Full paper submissions* -- November 15th, 2011
> *Work-in-progress paper, practitioner papers, posters* -- January 15th, 2012
> *Doctoral student colloquium papers* -- February 15th, 2012
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> Submission site: https://www.conftool.com/iscram2012/

About ISCRAM:

The ISCRAM Community is a worldwide community of researchers, scholars, teachers, students, practitioners and policy makers interested or actively involved in the subject of Information Systems for Crisis Response and Management. At its annual international conference alternating between the US and Europe, the ISCRAM Community gathers to present and discuss the latest research and developments in this growing area during an interactive and stimulating 3 day program. The ISCRAM Community also organizes an International Summer School for PhD students and ISCRAM-CHINA, an annual conference for ISCRAM research in China. Full information on ISCRAM can be found at www.iscram.org.