



VANCOUVER CANADA
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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: Early Warning & Expert Systems
for Disaster Management**

Introduction of the track

The track will discuss the latest scientific/technological developments, projects, programs and best practices in the field of Early Warning & Expert Systems (EW&ESs) of Disaster Management (DM). The advances in the rapidly evolving geo-information technologies, information management, and computational methods have proved to be a very important tool in providing real-time information that allows people exposed to a hazard to prepare for effective response and reduce the risk and impacts extreme natural and technological hazards. In addition to a sound scientific and technical basis for these systems, other important functions have to be considered such as strong focus on the people exposed to risk, innovative approach that incorporates all of the relevant factors in that risk, whether arising from the natural hazards or social vulnerabilities, and from short-term or long-term processes, etc. Broadly speaking, an expert system for disaster early warning is a type of software that mimics how the human brain locates, assesses and deploys knowledge – and finds solutions for a disaster. Therefore, this track will aim to better understand the potential benefits of using the development of real-time analysis, modelling and simulation methods, their integration with appropriate facilities for data processing, rapid information systems and their application to early warning in conjunction with disaster management. Also, it will present some practical and successful case studies in this domain

Track topics

Some non-exhaustive examples of topics that could contribute to this session are

- *Multi-Hazard EWSs and response systems.*
- *EW&ESs for various natural and technological hazards.*
- *Future technology needs, accessibility, availability & affordability of EW&ESs.*
- *Successful case studies and lessons learned from EW&ESs for DM.*
- *Infrastructure, structures, components, challenges and services EW&ESs for DM.*
- *Artificial Intelligence for EW&ESs for DM*

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:

Full paper submissions -- November 15th, 2011

Work-in-progress paper, practitioner papers, posters -- January 15th, 2012

Doctoral student colloquium papers -- February 15th, 2012

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.