



ISCRAM2013

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

10th International Conference on
Information Systems for Crisis Response and Management
Kongresshaus Baden-Baden
Baden-Baden Germany

TRACK: Intelligent Systems

Introduction: Intent and the Objectives

The aim of this track is to bring together sessions for researchers and practitioners working on state-of-the-art crisis information systems that exhibit some degree of intelligent behaviour.

Providing adequate information management and decision support during a crisis situation makes exacting demands on the information systems employed. Acquiring, filtering, organizing, representing, reasoning with and distributing relevant information to the right stakeholders at the right time and in the right format is a challenging and complex task. Intelligent systems provide a way of managing this complexity. Such systems may be deployed to help emergency responders to maintain their preparedness, to manage the crisis or to implement the recovery. During the highly uncertain, high-tempo, high-stake situation usually constituted by an emergency response environment, intelligent systems help to reduce the cognitive workload of personnel, and they help to manage the emergency in the most efficient and effective way possible.

Intelligent systems will display some ability to reason, perceive, learn or act intelligently in their environments; and they may have proactive, reactive, autonomous and/or social aspects. Techniques from Artificial Intelligence and a sound understanding of cognitive science may be employed to develop such robust and adaptable information management and decision support systems.

Sessions in this track will welcome contributions to the theory, methodology and practice of developing and evaluating intelligent systems in the context of crisis response and management. The track will result in the continued forging of a community interested in intelligent systems in this context.

Track topics

- *Cognitive systems*
- *Intelligent agents and agent based systems*
- *Distributed problem solving*
- *Intelligent web based applications*
- *Intelligent user interfaces*
- *Socio-cognitive modelling*
- *Agent models of social behaviour*
- *Agent based social simulation as a decision making tool*

- *Adaptive and self organizing systems*
- *Machine learning*
- *Knowledge representation, discovery and reasoning*
- *Planning and scheduling*
- *Group decision making*
- *Social intelligence*
- *Intelligent training systems*
- *Automatic negotiation of trust*
- *Knowledge-based systems*
- *Rescue robotics*
- *Optimization and heuristics*
- *Intelligent behaviour in wireless sensors networks*

Track Chairs

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Type of submissions

ISCRAM2013 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. These submissions will be subject to a light peer review to ensure clarity. Such papers should be submitted in the form of an extended abstract (maximum two pages, ~ 1200 words). All practitioner reports should be submitted via the dedicated "Practitioner report track".

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.

Note that the ISCRAM MS Word template for submissions is available at <http://www.iscram.org/iscram2013>

Submission Process and Deadlines

Authors must submit papers and posters electronically at <https://www.conftool.com/iscram2013/>. All papers must use the ISCRAM paper template. Deadlines for each submission format are listed below.

Submission Deadline Schedule for Papers, Posters, and PhD Colloquium:

Full paper submissions -- November 15th, 2012

Work-in-progress paper, practitioner papers, posters -- January 15th, 2013

Doctoral student colloquium papers -- February 15th, 2013

Submission site: <https://www.conftool.com/iscram2013/>

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.