

## **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](http://www.iscram.org/iscram2012)**

## **TRACK: Intelligent Systems**

### **Introduction of the track**

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*
- *Intelligent behaviour in Wireless Sensors Networks (see also WSN track)*

## Track Chairs

\* Frank Fiedrich, Public Safety and Emergency Management, Dept. of Safety Engineering, Wuppertal University, Germany. Email: [fiedrich@uni-wuppertal.de](mailto:fiedrich@uni-wuppertal.de)



Gerhard Wickler, Artificial Intelligence Applications Institute, University of Edinburgh, Edinburgh, Scotland. Email: [gwickler@gmail.com](mailto:gwickler@gmail.com)



Julie Dugdale, MAGMA Multi Agent Systems Team, Grenoble Informatics Laboratory, France. Email: [Julie.Dugdale@imag.fr](mailto:Julie.Dugdale@imag.fr)



Serge Stinckwich, IRD – UMI 209 UMMISCO (International Joint Research Unit on Mathematical and Computer Modeling of Complex Systems), Ha Noi, Vietnam. Email: [Serge.Stinckwich@ird.fr](mailto:Serge.Stinckwich@ird.fr)



\* *Corresponding Chair*



### 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 templates for papers and posters are available at [www.iscram.org/iscram2012](http://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. All posters must use the ISCRAM PowerPoint template. Deadlines for each submission format are listed below:

#### **Submission Deadline Schedule for Papers, Posters, and Doctoral Colloquium:**

*Full paper submissions* -- ~~November 15th, 2011~~ **New Deadline 9<sup>th</sup> Dec 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](http://www.iscram.org).