



ISCRAM2009
**The 6th International Conference on Information Systems for
Crisis Response and Management**

Gothenburg, Sweden
May 10-13, 2009
<http://www.iscram.org>

TRACK: Geo-Information Support

CALL FOR PAPERS

FOR A SPECIAL SESSION ON

Sensor Networks in Crisis Management

Session ID: GEO1

Motivation

After the earthquake in Bam, Iran in 2003, relief workers used pen and paper to draw a map of the crisis area. Today they are working with forums, chat sessions, file sharing programs and geographical information systems (GIS). In the last few years, technological integration in crisis management has evolved tremendously – most notably in the area of sensor networks. In the near future there will be sensor networks available throughout the world. Where sensor networks do not exist, a UAV can be used to drop small intelligent “smart dust” sensors over the affected area. The next challenge for us as crisis management researchers and practitioners is to handle the massive amount of data coming from ground sensor networks, to store and to analyse this kind of spatial information, and to extract and visualize information of interest to the user.

Topics

- Integration of sensor networks in crisis management systems
- Distributed and in-situ sensor data management
- Spatial search algorithms and methods
- (Multi-)sensor data fusion (visual, IR, seismic, meteorological, ...)
- Models and analysing techniques for sensor data
- Interoperability aspects and standards (SWE, SensorML, ...)
- Autonomous configurability and control in dynamic sensor networks
- Localization in sensor networks
- Real-time event detection in sensor networks for crisis management
- Real-time and on-demand visualization of sensor data
- Real applications and testbeds

Type of contribution:

This session allows academic and practitioner contributions.



- **Academic contribution:** we invite researchers from academia or research labs to present their research or research-in-progress papers. Prospective presenters submit a regular research (or research-in-progress) paper.
- **Practitioner contribution:** we invite practitioners to present their practice or experiences in information systems development, use or needs. Prospective presenters submit a short practitioner paper or a Powerpoint presentation along with an abstract.

Important Notice:

- All submissions must be formatted according to the ISCRAM 2009 formatting guidelines. Templates and instructions are published on www.iscram.org.
- All submissions must be submitted through the ISCRAM 2009 conference paper submission web page at www.conftool.com/iscram2009. Instructions for the ConfTool system can be found on www.iscram.org.
- All papers and presentations will go through a double-blind review process, leading to a decision of (conditional) acceptance or rejection.
- Accepted papers will be included in the ISCRAM 2009 program and published in the official proceedings if and only if
 - (1) the paper is formatted according to the instructions,
 - (2) the authors sign the copyright transfer form and
 - (3) one of the authors registers for the conference and pays the registration fee before the cut-off date for early registration.
- Authors who have multiple papers accepted can only register for and present one paper at the conference; co-authors need to register separately.

Session Chairs:



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Important ISCRAM 2009 Dates:

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|---------------------------------------|-------------------|
| • Submission deadline: | January 11, 2009 |
| • Notification of conditional accept: | February 16, 2009 |
| • Final submission revised paper: | March 1, 2009 |
| • Final author notification: | March 9, 2009 |
| • Early registration deadline: | March 22, 2009 |
| • Conference: | May 10-13 2009 |

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. All information on ISCRAM can be found at <http://www.iscram.org>

This year the conference will be held from 10-13 May at the Göteborg University located in Gothenburg, Sweden. The conference will be hosted by the Viktoria Institute and the IT-university of Gothenburg. All details on this conference will be made available via the ISCRAM website mentioned above.