



The 4th International Conference on Information Systems for
Crisis Response and Management

Delft, the Netherlands, May 13-16 2007
<http://www.iscram.org>

CALL FOR PAPERS

FOR A SPECIAL *ACADEMIC/PRACTITIONER/DEMONSTRATION*
SESSION ON

Geographic Information Science and Crisis Management

Session ID: 32GISC

Motivation for this session:

Geospatial information and technologies are often critical elements of emergency response systems, and critical elements of the disaster cycle as a whole. Through all phases of the disaster cycle, planners, responders, decisions makers, and the public have a need for data, information systems, and technologies that contain a geospatial component. Examples of this range anywhere from the real-time tracking of relief supplies to public web interfaces showing evacuation routes and shelters. The geospatial component in crisis management is critical as ever. Disasters of larger geographic scales and intensity necessitate complex response, coordination, and sustained commitments over time from a myriad of actors requiring geospatial information, in part, for situation awareness and decision making.

Research Area:

Geographic Information Science (GISci) encompasses the theoretical and conceptual elements that underlie Geographic Information Systems (GIS) and the related geospatial technologies relevant to crisis management. These elements include geospatial information visualization, representation, interaction, and sense making, spatiotemporal reasoning, the impacts of GIS on society and individuals, the impacts of society and individuals on GIS and fundamental spatial

themes from fields such as geography, geodesy, and cartography. Furthermore, GISci is fundamentally interdisciplinary, incorporating research from the fields of geography, information science, cognitive science, computer science, psychology, mathematics, philosophy, statistics, and anthropology. Because of this broad interdisciplinary perspective, research in GISci is well suited to address a wide variety of application domains that utilize geospatial information and technologies.

GIScience has the potential to address the critical crisis management research challenges that currently exist. GIScience, however, cannot address the key problems on its own – there needs to be collaboration between GIScience and the other disciplines involved in advancing information technologies and our understanding of their use in the crisis management domain.

Topics:

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

- Interfaces to geospatial information and technology in crisis management (HCI, human-factors, user requirements, GISystem interface design/strategies/techniques, integrated web-field-office systems)
- Geographical Visualization and GeoVisual Analytics in crisis management
- Geocollaboration with geospatial technology (theory, concepts, best practices) and its relationship to Computer Supported Collaborative Work (CSCW)
- Geospatial knowledge management to support crisis management
- Geospatial cognition in individuals, teams, and groups in crisis management (including distributed cognition, transactive memory, situation/context awareness)
- Opportunities and challenges with geospatial information to support crisis management. Including social/cultural issues and overcoming barriers to data sharing and cooperation
- Spatial Decision Support Systems
- Geospatial data collection and models for crisis management (including integrating geospatial data with non-spatial data)
- The use of Open Geospatial Consortium (OGC) Standards (Web Map and Feature Services, GeoRSS etc.) as a means towards geospatial data standardization, sharing, and system interoperability
- Spatial algorithms for crisis management
- Time in GISystems

Type of contributions:

- **Academic Session:** 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 which will be reviewed according to the usual academic standards.
- **Practitioner Session:** we invite practitioners to present their practice or experiences in information systems development, use or needs. Prospective presenters submit a powerpoint presentation which will be reviewed according to standards of relevance and contents.
- **Demonstration and Simulation Session:** we invite presentations of non-commercial demonstrations of information systems. Simulation (games) are also welcome. Prospective contributors submit a description of the demonstration or simulation they intend to present at the conference. These will be reviewed according to standards of relevance to the general theme of the conference.

Important Notice: All submissions must be submitted to the ISCRAM2007 central email address: iscram2007@iscram.org.

All submissions must be formatted according to the ISCRAM2007 instructions published on iscram.org. All papers, presentations or demos will go through a double-blind review process, leading to a decision of (conditional) acceptance or rejection. Acceptance rates at previous conferences were at 50-60 percent.

Accepted papers will be included in the ISCRAM2007 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 (see iscram.org) 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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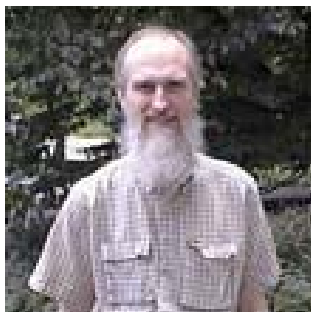
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Important ISCRAM2007 Deadlines:

- Paper Submission Deadline: January 15, 2007
- Notification of acceptance: February 22, 2007
- Closing date Early Registration: March 1, 2007
- Final version submission deadline: March 15, 2007
- ISCRAM2007: May 13-16 2007

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 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 13-16 May in the Netherlands in the city of Delft. All details on this conference will be made available via the ISCRAM website mentioned above.

TIP!

If you have the intent to submit a paper or presentation to one or more sessions, the session organizers would greatly appreciate an early, voluntary, notification. Please send your abstract TO: the Session Chair(s) (See e-mail addresses above) *and* CC it to: iscram2007@iscram.org.

The subject of the mail should be:

"Abstract for <session ID> on <your short title>"

The content of the mail should include:

- The type of contribution you want to submit: an academic paper, a presentation or a demo
- The title of your contribution
- A short description (abstract) of your contribution (10 lines)
- Any remarks/questions you have.

The session organizers will answer any questions you have, and may provide you with some tips.

Please note that submitting an abstract is not obligatory; it will be appreciated however. The organizing committees will not review the abstracts, or make a selection on the basis of abstracts. Only the final and full submissions will be used for this purpose. Sending an abstract does not oblige you to submit the full paper.