



ISCRAM 2018

Rochester Institute of Technology
Rochester, NY, USA

TRACK: Geospatial Technologies and Geographic Information Science for Crisis Management (GIS)

**15th International Conference on
INFORMATION SYSTEMS FOR CRISIS RESPONSE AND
MANAGEMENT**

“Visualizing Crisis”

Workshops and Doctoral Symposium May 20th, 2018

Conference May 21nd-23th, 2018

Rochester New York - USA
Rochester Institute of Technology (RIT)
<https://iscram2018.rit.edu/>

Organized by the Rochester Institute of Technology (RIT) on behalf of ISCRAM association.

INTRODUCTION TO THE TRACK

With disasters and disaster management being an “inherently spatial” problem, geospatial information and technologies have been widely employed for supporting disaster and crisis management. This includes SDSS and GIS architectures, VGI, spatial databases, spatial-temporal methods, as well as geovisual analytics technologies, which have a great potential to build risk map, estimate damaged areas, define evacuation routes, and plan resource distribution. Collaborative platforms like OSM have been also employed to support disaster management (e.g., near real-time mapping). Nevertheless, all these geospatial big data pose new challenges for not only geospatial data visualization, but also data modeling and analysis; existing technologies, methodologies, and approaches now have to deal with data shared in various formats, different velocities, and uncertainties. Furthermore, new issues have been also emerging in urban computing and smart cities for making communities more resilient against disasters. In line with this year’s conference theme, the GIS Track particularly welcomes submissions addressing aspects of geovisualization in disaster risk and crisis research. This includes SDSS, near-real-time mapping, situational awareness, VGI, spatio-temporal modeling, urban computing, and other related aspects. We seek conceptual, theoretical, technological, methodological, empirical contributions, as well as research papers employing different methodologies, e.g., design-oriented research, case studies, and action research. Solid student contributions are welcome. Track topics are therefore focused on but not limited to the following list.




TRACK TOPICS

1. Geospatial data analytics for crisis management
2. Location-based services for crisis management
3. Location-based technologies for crisis management
4. Geospatial ontology for crisis management
5. Geospatial big data in the context of disaster and crisis management
6. Geospatial linked data for crisis management
7. Urban computing and geospatial aspects of smart cities for crisis management
8. Spatial Decision Support Systems for crisis management
9. Remote sensing for crisis management
10. Geospatial intelligence for crisis management
11. Spatial data management for crisis management
12. Spatial data infrastructure for crisis management
13. Geovisual analytics for crisis management
14. Spatial-temporal modeling in disaster and crisis context
15. Crisis mapping and geovisualization
16. Crowdsourcing and VGI in the context disaster and crisis management
17. Spatial analysis of OpenStreetMap (OSM) data for crisis management
18. Spatial analysis of social media messages in the context of crisis management
19. Interoperability aspects regarding disaster-related geodata

AUTHORS AND REVIEWERS RECRUITMENT

The GIS Track is a traditional and very successful Track in ISCRAM, which was discontinued due to lack of commitment from Track Chairs. We are active members of the ISCRAM and the international GIScience community and propose to revive the Track for ISCRAM 2018. In addition to the demand for GIS papers from the ISCRAM community, this is an opportunity to try and involve the wider GIS community in ISCRAM, which traditionally publishes a considerable amount of work in disaster and crisis management.

TRACK CHAIR AND CO-CHAIR

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