VANCOUVER CANADA
April 22 - 25, 2012

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

TRACK: Wireless Sensor Networks for Emergency Response

Introduction of the track

Wireless Sensor Network (WSN) technologies have revolutionized surveillance and monitoring in numerous applications and sectors including environment, industry, agriculture, logistics, among many others. Civil Security and the protection in case of natural or human-made disasters are today main concerns of our society. WSN technology provides distributed real-time sensing, computational and wireless communication resources with ease of deployment and minimal invasion. Furthermore, WSNs can cooperate with robots and complement with other heterogeneous networks.

Thus, WSN is a suitable tool for sensing activities before, during and after an emergency situation, including surveillance and event detection, monitoring and measuring, post-disaster analysis and assessment, among others.

The track will discuss the latest scientific/technological developments and innovative ideas on the use of WSN technologies for crisis response and emergency management. The track will aim to better understand the potential benefits of using WSN technologies in emergency situations, including sensor data collection, in-network aggregation and robust routing of sensed data, and integration of sensor nodes with other devices in a disaster response setting.

Track topics

- Self-organized WSNs
- Distributed processing of sensor data
- Integrating multi-source data
- (Temporary) collaborative data storage in WSNs
- Dissemination/processing of spatial queries in WSNs
- Fault-tolerant real-time event data dissemination
- Prioritization of critical data
- Mobility management in wireless sensor networking
- Tracking first responders and victims
- Security of event data dissemination
- Heterogeneous or Collaborative systems: Integration of WSNs with other networks (Cellular, WLAN, etc.)

- WSN-robot cooperation for emergency response
- WSN applications for emergency response and real deployment experiences

Track Chairs

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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 paper template is available at 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. Deadlines for each submission format are listed below:

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

Full paper submissions -- November 15th, 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.