



## ISCRAM 2023

University of Nebraska at Omaha's College  
of Information Science & Technology  
Omaha, Nebraska, USA

# Applications, Tools and Components for Crisis Management

20<sup>th</sup> International Conference on  
INFORMATION SYSTEMS FOR CRISIS RESPONSE AND  
MANAGEMENT

*Theme: “Building Humanitarian  
Technologies for our Emerging Future +  
Building Resilient Societies”*

**Workshops and Doctoral Symposium May 28<sup>th</sup>, 2023**

**Conference May 28<sup>th</sup>-31<sup>th</sup>, 2023**

**Omaha, Nebraska - USA**

The University of Nebraska at Omaha (UNO)

<https://iscram2023.net/>

### INTRODUCTION TO THE TRACK

Many people in the ISCRAM community design and/or build information systems. Either as research prototypes, or for real world applications. The final results are sometimes presented in ISCRAM conferences, but we usually don't share our experience with the tools, languages, libraries, off-the-shelf components and services that were used to create these systems. In this interactive track, authors are invited to share their experiences with a specific tool (library/service/framework etc.) that they used to build (a part of) an information system for crisis response and management and to assist others in using it too. We welcome contributions from author's who are either regular



users of the presented tool, or who are the developers/vendors of the tool. Presented tools should be publicly available to try out. For proprietary tools this means there must be a free trial version.

### TRACK TOPICS

Possible tools that would qualify as candidates for this track would be:

- Software libraries for common ISCRAM functionality e.g. mapping, tasking, tracking, data visualization, simulation.
- Sensor integration / data collection frameworks
- Rapid application development toolkits
- Risk or physical modeling tools
- Micro-tasking / digital volunteer infrastructure
- Social media monitoring / analytics tooling

### TRACK CHAIR AND CO-CHAIR

	<p>Bas Lijnse b.lijnse@mindef.nl</p> <p>Netherlands Defense Academy, Nijmegen</p> <p>Dr. Lijnse's work focuses on formal specification of dynamic workflows for crisis management and command and control, and the programming languages, tools and frameworks to support such complex tasks. He has worked with a variety of organizations to formalize complex task patterns and is the main author of multiple Task-Oriented Programming (TOP) frameworks and task modeling tools such as iTasks and C2Sketch. He is a long time member of ISCRAM, having chaired the Research Methods and Tools track, among others.</p>
	<p>Jürgen Moßgraber Juergen.mossgraber@iosb.fraunhofer.de</p> <p>Fraunhofer IOSB, Germany</p> <p>Dr. Moßgraber's research interests include the design and implementation of webbased information systems with state-of-the-art technologies. He has particular experience with the design of distributed systems handling large-scale databases and modern architectures for task-oriented systems with a service and event-based approach. His current focus is on the management and processing of sensor data in the domains of crisis management, climate change, cultural heritage and smart cities</p>



Anastasios (Tasos) Karakostas  
[akarakos@draxis.gr](mailto:akarakos@draxis.gr)

DRAXIS Environmental

Dr. Anastasios Karakostas (m) received the Degree in Computer Science and the PhD degree in Computer Science Aristotle University of Thessaloniki Greece. He was a Researcher with ITI- CERTH. Currently, he is Managing Director in DRAXIS environmental. He was a senior researcher in CERTH and deputy coordinator and scientific manager of the H2020 Disaster Management projects aqua3S and beAWARE. beAWARE proposes an integrated solution to support forecasting, early warnings, transmission and routing of the emergency data, aggregated analysis of multimodal data and management the coordination between the first responders and the authorities. He has also participated in numerous European and national research projects and is the author of more than 60 publications in refereed journals and international conference. His research interests include decision support systems, semantic multimedia analysis, ontologies and semantic information modeling and reasoning. He has served as a reviewer in international Journals such as Computers and Education, IEEE Transactions on Learning Technologies and as Technical program committee in well reputed conferences and workshops such as CSCL, IEEE ICALT. He has been chair of the ISCRAM ICMT workshops in 2018, 2019, 2021 and 2022 and one of the organizers of the IEEE International Conference on Intelligent Networking and Collaborative systems (INCoS 2010) and 2018 IEEE Image, Video, and Multidimensional Signal Processing (IVMSP) Workshop

*\*Corresponding Chair*

**ISCRAM** 



**ISCRAM 2023**

University of Nebraska at Omaha's College  
of Information Science & Technology  
Omaha, Nebraska, USA