



ISCRAM 2018

Rochester Institute of Technology
Rochester, NY, USA

TRACK: Command & Control Studies

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/>

INTRODUCTION TO THE TRACK

Command and Control (C2) support systems are essential components of today’s crisis management operations. C2 is a socio-technical process that aims to create coordination and collaboration, and technical artefacts such as C2 support systems are important parts of today’s crisis management to ensure lines of communication, inter-organizational cooperation, and organizational resilience and agility. This area concerns use of technology, networks, situation reporting, best practice, common operational picture, etc. It stretches from the operational level to strategic level of control.

C2 concerns the ability to detect, adapt and react to unexpected situations, and visualization is a central theme in the ability to detect unexpected or deviating events. Visualisation relies on good information gathering and directly affects the ability to orient, make decisions and plan. This track invites qualitative and quantitative studies, as well as case studies on how new technologies and techniques affect the way C2 is exercised. We also welcome contributions concerning new methods for evaluating C2 performance, and especially adaptive capability and C2 agility, in the context of crisis management. In the context of C2, efforts to improve knowledge about the effects of new technology, such as automation, AI and the

Internet of Thing (IoT) should be encouraged. Another important area to which we welcome contributions concern how C2 is exercised and assessed in theatre, regarding inter-operability and multi-national operations. This includes replication of earlier studies, case studies and methodological contributions that can be of help in evaluating and understanding C2, experimental studies and qualitative studies. The common focus is humans working in complex, dynamic situations using different forms of technology to support the task of C2. Studies may concern individual decision-makers as well as teams or organizations.

TRACK KEYWORDS

Command and control, agility, C2 agility, coordination, collaboration, crisis management, assessment, evaluation, team/organizational effectiveness, field studies, inter-organizational cooperation, decision-making, common operational picture, automation, IoT, resilience.

TRACK TOPICS

Possible topics of interest for this track include the following:

- Studies of C2 systems in the field (quantitative, qualitative and case studies)
- Studies for assessing or evaluating agile capability
- Normative design solutions for C2
- New methods for evaluating C2 systems
- Evaluation of novel C2 technologies

AUTHORS AND REVIEWERS RECRUITMENT

Having run the track since 2009 we have a large network of researchers and professionals in the area of C2. They are loyal and have a large experience on both scientific and applied work within the domain.

TRACK CHAIR AND CO-CHAIR

Björn Johansson, PhD, Associate Professor works at Linköping University as an adjunct lecturer in Cognitive Science. His main research interests are Command and Control, Resilience engineering and Behaviour in complex systems.

Peter Berggren, PhD, works at the Centre for Teaching & research in Disaster Medicine and Traumatology (KMC). Dr Berggren is a research coordinator mainly studying team cognition, decision making, command and control, emergency management, crisis response, pre-hospital emergency care, and method development. Dr Berggren also works as a researcher at Linköping University.

Nicoletta Baroutsi is a PhD candidate working at the Swedish Defence University and earning her degree at Lund's University. Baroutsi's research is focused on C2 performance in multi-organizational crisis response, with a keen interest in distributed cognition and decision making.

	<p>Björn JE Johansson*</p> <p><i>bjorn.j.johansson@liu.se</i></p> <p>Linköping University, Department of Computer and Information Science</p>
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	<p>Peter Berggren</p> <p><i>peter.berggren@liu.se</i></p> <p>Linköping University/ Centre for Teaching and Research in Disaster Medicine and Traumatology in Linköping (KMC)</p>
	<p>Nicoletta Baroutsi</p> <p><i>nicoletta.baroutsi@fhs.se</i></p> <p>Swedish Defence University/ Lund's University</p>

**Corresponding Chair*



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