COMMAND & CONTROL STUDIES

Command and Control (C2) support systems are essential components of today's crisis management operations. Command and control 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, situation room, etc. It stretches from the operational level to strategic level of control.

In line with the theme of agile crisis management highlighted at this year's conference, agile C2 concerns the ability to detect, adapt and react to unexpected situations. This involves information gathering, planning, orientation, decision-making, acting, and feedback. This track invites qualitative and quantitative studies, as well as case studies on how new technologies and techniques affect the way command and control is exercised. We also welcome contributions concerning new methods for evaluating C2 performance, and especially agility, in the context of crisis management. In the context of command and control, efforts to improve knowledge about the effects of new technology 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 command and control, 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 command and control. Studies may concern individual decision-makers as well as teams or organizations.

TRACK FORMAT

Traditional conference track format

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
- New assessment methods for C2 performance
- New methods for evaluating C2 systems
- Evaluation of novel C2 technologies

TRACK CO-CHAIRS

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Björn Johansson (Associate Professr, Cognitive Science, Ph.D. in Cognitive Systems) is a deputy research director at the Swedish Defence Research Agency and an adjunct lecturer at the Department for Computer Science at Linköping University. Björn's research focus is Cognitive Systems Engineering, Resilience Engineering, Command and Control, temporal characteristics of control tasks, Agility, C2 Agility, and communication.

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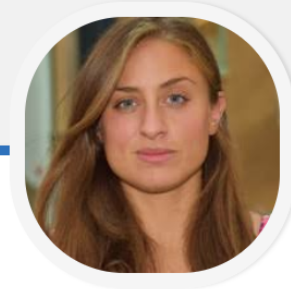
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