

Call for Papers and Data Challenge



Topics

- Artificial Intelligence and Machine Learning for Military Situational Awareness and Decision Making
- 5G for Military Communications
- Information assurance and cyber defence
- Fake News and Narratives
- Software applications for Command and Control
- CIS Concepts and solutions
- Human Factors Concepts in Military CIS Systems
- Modelling and Simulation in support of Military CIS
- Trends in Military Education and Training
- Information and knowledge management
- Communications and networks
- Wireless technology
- Military exploitation of Quantum technologies
- Intelligence, Surveillance and Reconnaissance Solutions
- Electromagnetic design, spectrum management and compatibility

Data Challenge

Additionally to the normal conference papers, ICMCIS 2021 will include a data challenge on a topic related to the special interest area of Application of AI & ML for Military Situational Awareness and Decision Making. AI & ML are technologies that have the potential to enable commanders to make better decisions, faster by providing more complete situational awareness and determining potential courses of action more rapidly. Data sets will be distributed through the ICMCIS web site along with the details of the challenge in due course. Winners will be invited to present their solutions at the conference.



ICMCIS is an international conference with a 20-year tradition. It remains the premier conference in Europe for presenting research results related to Military Communication and Information Systems (CIS) matters.

The conference was founded with the vision of creating a forum for the exchange of ideas regarding development as well as implementation of advanced information and communications technologies and services in the military. The conference gives a unique opportunity to discuss different points of view and share experience with colleagues from European and NATO Nations and organizations involved in Military CIS.

The conference scope includes all topics related to Military CIS. In 2021, the conference will have a particular focus on the application of Artificial Intelligence and Machine Learning to the area of Military Situational Awareness and Decision Making. A special session will be included in the conference regarding “Military Response to Pandemics: Tools supporting situational awareness and decision making”. Papers submitted to this special session could include coverage of case studies or innovative developments exploring the utility of approaches for defence and security including data and visual analytics, specialised communications (e.g. contact tracing) and messaging (e.g. influencing public perception and behaviour), information assurance (e.g. trust, privacy and security.....), etc.

Accepted papers will be submitted for inclusion into IEEE Xplore subject to meeting IEEE Xplore’s scope and quality requirements. Papers have in the past also been indexed in Web of Science Core Collection and it is intended that this continue in 2021.

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Important Dates

Paper submission	01 February 2021
Notification of acceptance	15 March 2021
Camera ready copy	12 April 2021

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