

Science and Technology Organization Collaboration Support Office

Neuilly-sur-Seine – France

NATO INFORMATION SYSTEMS TECHNOLOGY (IST) PANEL

CALL FOR PAPERS

INTERNATIONAL CONFERENCE ON MILITARY COMMUNICATION AND INFORMATION SYSTEMS (ICMCIS)

to be held in Oeiras, Portugal 13-14 May 2025



DEADLINE FOR THE SUBMISSION OF PAPERS: 22 December 2024 19 January 2025

This Conference is open to NATO Nations, NATO bodies and STO Enhanced Opportunity Partners (Australia and Japan), Mediterranean Dialogue <u>nations</u>, Austria, Bosnia and Herzegovina, Ireland, Korea (the Republic of), New Zealand, Singapore, Switzerland and Ukraine

FOR THE NS TRACK, PLEASE REFER TO ANNEX B AND C

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A. INTRODUCTION

The International Conference on Military Communication and Information Systems (ICMCIS) will take place on **13 and 14 May 2025, in Oeiras, Portugal**, in conjunction with the 55th NATO Science & Technology Organization (STO) Information Systems Technology (IST) Panel Business Meeting. As a NATO STO activity, ICMCIS 2025 is organised by the NATO Communication and Information Agency (NCIA), with the support of the Portuguese Ministry of National Defence.

Authors are invited to submit papers that address military challenges related to the topics listed in section D of this Call for Papers and in the format specified in section E. All papers will be peer reviewed by at least three reviewers. It is anticipated that ICMCIS 2025 will obtain support from the Institute of Electrical and Electronics Engineers (IEEE), as it has since 2012, for the publication of accepted papers in IEEE Xplore.

Authors of selected papers will need to provide final versions of the papers, alongside presentations, with the changes requested, by the dates noted in Section H and in accordance with the detailed instructions (see section E and F).

Attendance at and contribution to the event will require registration (section G).

B. BACKGROUND

The ICMCIS is the largest scientific conference in Europe on military CIS. It provides a forum for exchanging ideas and knowledge on the development and implementation of advanced ICTs for military systems (see section C for details).

The ICMCIS strives for high scientific quality papers with triple peer reviews and IEEE technical sponsorship. The IEEE is the world's largest technical professional organization dedicated to advancing technology for the benefit of humanity. Its journals are the preferred publication route for many universities to gain higher recognition, and citations of their high-quality research.

C. OBJECTIVES

The objectives of ICMCIS are:

- To provide a forum to identify and gain input on and resolution of issues associated with NATO Command, Control and Communications (C3) Policy and focus for NATO collaborative research as through the STO Programme of Work;
- To provide an overview of current NATO C3 activities as well as wider state-of-the-art research, pertaining to both the development and effective employment of ICT solutions;

• To provide a forum for sharing ideas and knowledge on the development and implementation of advanced information and communications technologies for defence and military systems.

D. TOPICS

ICMCIS covers relevant scientific topics and technologies for defence C4I (Command, Control, Communication, Computing and Information), to include military information exchange, processing, storage, protection. Thus, papers should address high quality research in the following topics:

Intelligent Information Systems for C2 and Intelligence

- Data Management, Quality, Access
- Big Data Analytics and Artificial Intelligence
- Multimodal and XR-based Human-Machine Interfaces
- Interoperability Solutions for Heterogeneous Systems and Multi-Domain Operations
- Human-Machine Teaming

Military Communication & Networks

- Wireless Terrestrial and Satellite Transmission (including antenna technology)
- Resilient Tactical Networks
- Communication and Network Protocols
- Network Orchestration and Management
- Military Internet of Things
- Cloud and Edge Computing
- Non-EM Communications: Quantum, non-RF (e.g. optical), Accoustic

Cyber Security & Information Assurance

- Cyber and Electromagnetic Activity (CEMA) Countermeasures
- Counter / Adversarial Al
- Data-Centric Security and Zero-Trust Architectures
- Homomorphic and Quantum-Safe Encryption
- Information Assurance & Digital Trust

E. PAPERS

ICMCIS is open for scientific papers at PUBLIC RELEASE level, to be submitted in the <u>IEEE</u> - <u>Manuscript Templates for Conference Proceedings</u>, with the addition of the following in the abstract:



"This paper was originally presented at the NATO Science and Technology Organization Symposium (ICMCIS) organized by the Information Systems Technology (IST)Scientific and Technical Committee, IST-209-RSY – the ICMCIS, held in Oeiras, Portugal, 13-14 May 2025".

Length: 6 pages minimum, 10 pages maximum for the whole paper.

Content:

- Introduction/relevance to the Conference topics
- Rationale to military application
- Related work
- Description of methods employed, and results obtained
- Conclusions

Authors' names, affiliation, and emails must be included with the paper. Submissions without name(s), affiliation and emails of author(s) will not be considered.

Papers should be submitted via <u>https://easychair.org/conferences/?conf=icmcis2025</u>, by 22 December 2024. If applicable, authors shall indicate early career scientist major contributions (age < 37yr) in their bio.

Presentations, Papers and Publication Release Forms from U.S. authors or authors affiliated to U.S. entities must be sent ONLY to NATO S&T Organization U.S. National Coordinator (osd.pentagon.ousd-atl.mbx.usnatcor@mail.mil) – further information in Annex A.

F. PAPER ACCEPTANCE / PUBLICATION CLEARANCE

All papers will be peer reviewed in accordance with IEEE review guidelines and checked for plagiarism. The selection of papers will be based on the following evaluation criteria: **military relevance and significance, scientific value, originality, technical quality (construction/ readability/ legibility)** leading to an overall assessment. All authors will be notified whether or not their papers have been selected with a constructive feedback summary from the evaluation. When applicable, authors are encouraged to update their paper based on the review recommendations before submitting the camera-ready copy. Only papers that meet the criteria and associated quality will be accepted. For papers that fail to meet the criteria and are thus rejected, the authors will be given the opportunity for a poster presentation.

All authors will be informed on the Programme Committee's decision regarding the paper selection and revision by <u>28 February 2025.</u> Authors will have the opportunity to revise their papers based on the comments received and should submit their updated paper by <u>23 March 2025.</u> Authors will receive their final appreciation by <u>31 March 2025.</u>



Authors of accepted papers will be requested to provide the following until 27 April 2025:

- Presentation (±20 min + 5 min Q&A);
- Final paper in accordance with peer review comments;
- STO Publication Release Form and IEEE copy right transfer;
- Biography (<100 words) for <u>all presenters</u>.

The Meeting Proceedings, with an abstract of the conference, position papers and (poster) presentations, will be published on the NATO STO website, upon verification of the content and of the administrative requirements. Accepted papers will be submitted to IEEE Xplore.

Only papers for which a valid, completed and signed Release Form has been submitted are eligible for presentation during ICMCIS and publication in the NATO meeting proceedings. Authors of papers selected for publication in IEEE Xplore will need to transfer copyright to IEEE as well. The Release Forms and IEEE form will be made available with the notification of acceptance.

G. REGISTRATION AND FEES

All authors and participants must register to the event. Registrations will open on 17 February.

Applicable fees will be indicated on the ICMCIS website (<u>https://www.icmcis.eu/</u>). Registration will be complete and valid upon payment confirmation.

NOTE: Authors submitting papers / posters / demonstrations and other attendees must ensure their own financial support for participation to the ICMCIS.

H. PRELIMINARY TIMELINES

22 December	2024	Papers due electronically
17 February	2025	Online registration open for visitors and authors
28 February	2025	Initial Notification of Acceptance
23 March	2025	Revised papers due electronically
31 March	2025	Final notification of acceptance
13 April	2025	Registration to ICMCIS closed
27 April	2025	Presentation, final paper, release forms, IEEE copyright transfer, and bio due electronically
13-14 May	2025	ICMCIS



I. PROGRAMME COMMITTEE

Questions on <u>technical</u> aspects of the scientific programme shall be addressed to the Chairs and/or the Programme Committee Members listed below.

Mr Antoine SMALLEGANGE (Co-Chair)	Dr Michael STREET (Co-Chair)
Antoine.smallegange@tno.nl	Michael.Street@ncia.nato.int
TNO	NCIA

Members of the Programme Committee

Mr Simon BAKER BSc CEng MIET (Host	LtCol Angelo SILVA (Host Nation)
Nation 2026), spbaker@dstl.gov.uk	silva.aml@exercito.pt
DSTL	Portuguese Army
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Systems for C2 and Intelligence, DIANA)	Michael.gerz@fkie.fraunhofer.de
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& Information Assurance)	nsuri@ihmc.org
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FOI	DSTL

J. ADDITIONAL INFORMATION / POINTS OF CONTACT

Questions on the <u>administrative</u> aspects of this event and requests for further information on STO activities should be addressed to the IST Office via <u>IST@cso.nato.int</u>. Additional information regarding instructions to Authors, templates, payment instructions, updates on the event, can be found on the ICMCIS website: <u>https://icmcis.eu</u>.

The General Information Package with travel, accommodation and administrative details will be made available by NATO/CSO upon validation of the registration to the event.



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ANNEX A

SPECIAL NOTICE TO U.S. AUTHORS AND NON-U.S. CITIZENS AFFILIATED WITH U.S. ORGANISATIONS (Ref.: IST-209 RSY, Oeiras, Portugal, 13-14 May 2025)

Papers from the U.S. must be sent ONLY to the following POC:

NATO STO U.S. National Coordinator

OASD(R&E)/International Technology Programs

4800 Mark Center Drive

Suite 17D08

Alexandria, VA 22350-3600

Tel: +1 (571) 372 6539 / 6538

Email: osd.pentagon.ousd-atl.mbx.usnatcor@mail.mil

All U.S. Authors must timely submit one electronic copy to this POC. The POC will forward all U.S. papers as required by the Technical Programme Committee.

In addition to their papers, all U.S. authors must provide:

- A) A certification (Can be signed by the author) that there are no proprietary or copyright limitations.
- B) Internal documentation from their local public affairs or foreign disclosure office (or equivalent) that clearly shows:
 - Title of the paper or presentation
 - Level of clearance (i.e., approved for public release)
 - Name, title, and organization of the approval authority
- C) Full details of authors

Note that only complete packages (abstracts + items listed above) will be accepted by the U.S. POC. After review and approval, the U.S. POC will forward all U.S. abstracts to the IST Executive Office, who will send them to the Programme Committee. U.S. authors are encouraged to address questions and concerns to the POC as early as possible. Delays in meeting deadlines will impact the timely submission of your abstract.



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ANNEX B

CALL FOR PAPERS – (UP TO) NS SESSION (IST-228-RSM)

A. INTRODUCTION

For the first time, ICMCIS will host a session up to NS, which will be conducted in NS-capable rooms. Contribution to and participation in these sessions will be limited to representatives of NATO Nations and NATO bodies who hold a valid NS clearance (more information on this in Annex C).

These ICMCIS sessions will be organised as IST-228 Research Specialists' Meeting.

B. SUBMISSION OF PAPERS AND PRESENTATIONS

For this session, authors have the option to:

- Submit a public release paper and up to NS presentation (with accepted papers being published in IEEE Explore). For example, where the paper describes a public release concept and the presentation adds classified data or use cases; or
- 2. Submit an **up to NS paper** and **up to NS presentation** (accepted papers will be published as part of NATO meeting proceedings).

For submissions, please note that:

- **Public release** papers shall be submitted via <u>EasyChair</u>, as described in the Call for Papers, marking your submission in EasyChair accordingly (dropdown menu on submission page);
- Papers and presentations up to NS shall be submitted by email via NS network to <u>Michael.street@ns.ncia.nato.int</u>. <u>Make sure to mark your paper/presentation appropriately</u>.
- Review and acceptance criteria for this session is in accordance with the Call for Papers. All reviewers will hold appropriate clearance.

C. PAPER ACCEPTANCE / CLEARANCE / PUBLICATION

While the general ICMCIS guidelines remain applicable, papers and presentations up to NS will be part of NATO Meeting Proceedings, up to NS, which will be made available to NATO Nations and Bodies, following the submission of the respective release forms, and editorial changes.

Accepted public release papers will be submitted for inclusion in IEEE Xplore, as per the public release session procedures.

D. PRELIMINARY SCHEDULE

The following time schedule for (up to) NS papers applies:

17 March	2025	Papers due electronically
17 March	2025	Online registration opens for visitors and authors
28 March	2025	Notification of acceptance
13 April	2025	Registration to ICMCIS closed
27 April	2025	Presentation, final paper, Release Forms, IEEE copyright transfer, and bio due electronically
13-14 May	2025	ICMCIS



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ANNEX C SECURITY CLEARANCE SUBMISSION

How to provide proof of a NATO Security Clearance?

- For Military and Civil servants from NATO entities (ACO, ACT, NATO HQ or Agencies): on arrival produce an AMIS card or security pass, which is subject to a reciprocal agreement with NCI Agency (those with a AMIS Card, put your AMIS Card number into your Cvent registration for validation). On arrival, your valid reciprocal badge will be exchanged for a local unescorted visitors pass;
- For Military and Civil Servants from NATO nations: submit proof of NATO security clearance by submitting Request For Visit through the appropriate National Security Authority (NSA) or a Personnel Security Clearance Confirmation (PSCC) through their Facility Security Officer (FSO) to <u>thehague.security@ncia.nato.int</u>.

Please note: Attestations of Personnel Security Clearance (PSC) are no longer valid, being replaced by PSCC confirmations, which are now the approved format to be used.

- For visitors from Industry: Your FSO (Facility Security Officer) should submit a Request For Visit (RFV) to validate the visitor(s) NATO PSC through their National Security Authority (NSA). RFV forms should be available from your FSO or NSA.
- For USA Visitors from Industry: Your FSO should submit an RFV as proof of the visitor(s) NATO PSC through DCSA. DCSA contact details and further RFV completion details can be found at https://www.dcsa.mil/mc/ctp/int/visits/.

In the RFV submission, please use the following POC for Security:

- NAME: Mr. Robin Bell
- EMAIL: thehague.security@ncia.nato.int
- TELEPHONE NO: 0031 70 374 3222