



Celebrating 40 Years of MILCOM - Transforming Decision Making through JADC2

IEEE Military Communications Conference (MILCOM), the premier international conference addressing unique challenges in military communications, will be held in Rockville, MD, USA, from November 28 – December 2, 2022.

Founded in 1982, MILCOM has been the preeminent forum bringing together thought leaders in government, industry, and academia to discuss innovative research and cutting-edge technology development. Celebrating the 40th year anniversary of the MILCOM conference, MILCOM 2022 is themed around “*Transforming Decision Making through Joint All-Domain Command and Control (JADC2)*”, building technology pillars in secure communications, resilient networks, multi-domain operations, cyber security, and machine learning.

MILCOM 2022 will feature a comprehensive high-quality technical program including five technical tracks, workshops, a variety of technical panels and tutorials, for both the Unclassified Technical Program and the Restricted Access Technical Program. The conference will also feature keynotes and plenary panels with prominent speakers from government, industry and research organizations, as well as vendor exhibition, women’s forum, industry lightning talks, and student poster sessions.

Call for Papers

MILCOM 2022 solicits technical papers and proposals for tutorials and panels on current and emerging topics applicable to all facets of military communications. We encourage professionals in industry, academia, and government worldwide to contribute and participate. The general forum will be open to all participants and accepted papers will be published in IEEE Xplore. The Restricted Access Program will support Controlled Unclassified Information (CUI) materials in addition to a Classified Program for content up to Top Secret/Sensitive Compartmented Information (TS/SCI).

TECHNICAL PAPERS

Unclassified Technical Program

The unclassified technical program provides a venue for papers and presentations that do not include ITAR-sensitive, CUI, classified, or proprietary information. EDAS will be used for all unclassified paper submissions. MILCOM 2022 welcomes submissions from researchers, inventors, and technology leaders from government, U.S. and coalition military services, industry, research laboratories, and universities. Papers with a strong emphasis on U.S. military operations should be submitted to the restricted or classified sessions. The following technical five tracks have been established for paper submission:

TRACK 1 – Waveforms and Signal Processing

Topics: Antennas & RF; Modulation & Coding; Software-Defined Radio; Cognitive Radio; Interference Management; Spectrum Coexistence; Emerging Concepts

EDAS submission link: <https://edas.info/newPaper.php?c=29526&track=111462>



TRACK 2 – Networking Protocols and Performance

Topics: Ad Hoc, Mesh, & Cooperative Networks; Software-Defined Networking; Information-Centric Networking; Network Virtualization; Network Science; Mobile Edge Networks; Emerging Concepts

EDAS submission link: <https://edas.info/newPaper.php?c=29527&track=111463>

TRACK 3 – Cyber Security and Trusted Computing

Topics: Advanced Persistent Threat Detection & Mitigation; Key Management; Tactical Cloud Security; Cryptography; Wireless Security; Multi-Level Security; Emerging Concepts

EDAS submission link: <https://edas.info/newPaper.php?c=29528&track=111464>

TRACK 4 – Integrated Network Architecture and Systems-of-Systems

Topics: SATCOM; Airborne Networks; Integrated UAV/Drone Networks; High Altitude Platform Systems; Space Networks; Multi-Domain Operations; Coalition Operations; Cross Domain Solutions

EDAS submission link: <https://edas.info/newPaper.php?c=29530&track=111466>

TRACK 5 – Machine Learning for Communications and Networking

Topics: Machine Learning (ML) for Channel Estimation, Decoding and Interference Mitigation; ML for Resource and Network optimization; Adversarial ML; ML at the Edge; Secure ML over Communication Networks; Robust Learning; Distributed and Federated Learning

EDAS submission link: <https://edas.info/newPaper.php?c=29531&track=111467>

RESTRICTED ACCESS AND CLASSIFIED TECHNICAL PROGRAMS

The restricted access and classified technical programs provide avenues for papers, panels, and workshops that contain CUI or classified content (up to TS/SCI), respectively. Attendance, participation, and paper authorship will be limited to US Citizens holding the appropriate levels of security clearance. Topics of highest interest include protected and resilient communications, JADC2, Nuclear Command, Control & Communications (NC3), DoD network architectures, future generation wireless technology, space systems including commercial non-geo stationary systems, cyber systems, and multi-function systems/technology. Please email the program restricted chairs directly for ideas and submission instruction at milcom22restrictedprogram@gmail.com. Classified correspondence can be coordinated as required.



TUTORIALS AND PANELS

MILCOM 2022 solicits proposals for unclassified half-day tutorials and one- to two-hour panels. Relevant topics include state-of-the-art communications and networking technologies, cyber, coalition communications, and innovative techniques for affordable communication systems and acquisition strategies. Proposals for tutorials and panels should be submitted to milcom2022tutorialchairs@gmail.com, milcom2022panelchairs@gmail.com .

WORKSHOPS

In addition to exciting technical tracks, tutorials, industry panels and exhibitions, MILCOM 2022 solicits proposals for a series of half and full-day workshops. The aim of the conference workshops is to emphasize focused mission and domain topics that are not specifically covered in the main tracks, facilitating a deeper discussion within a very specific domain. Each workshop may include a mix of regular papers, invited presentations, keynotes and panels that encourage the participation of attendees in active discussion. Proposals and ideas for workshops should be submitted to milcom2022workshops@gmail.com.

IMPORTANT DATES FOR MILCOM 2022

Technical Paper Submission: **May 29, 2022**

Workshop Paper Submission: **June 26, 2022**