



Integrated Communications Navigation and Surveillance

The 24th Integrated Communications, Navigation, and Surveillance Conference
23-25 April 2024
Westin Washington Dulles Airport, Herndon, Virginia, USA

ICNS Conference Theme:
Navigating the Info-Centric AAM/ATM Landscape

The Integrated Communications Navigation, and Surveillance (ICNS) Conference is a premier international aviation (air/ground) conference addressing technology and policy advances in communications, navigation, and surveillance (CNS) and air traffic Management (ATM). The ICNS Conference provides a forum for thought leaders, policymakers, researchers, and other technical experts from government, industry, and academia around the world to connect and explore important policy, science, and technology issues. Previous attendees represented Air Navigation Service Providers (ANSPs), aircraft manufacturers, airspace users, government, academia, and many industry suppliers.

Technical Papers and Presentation Topics

Do you want to introduce your work to the ICNS colleagues, hone your scientific and technical ideas, and refine your research questions? Papers and presentations are solicited for the technical sessions, addressing the key topical areas listed below:

- Air Traffic Management (ATM), UAS Traffic Management (UTM) and Space Traffic Management (STM)
- Hyperconnected ATM using Info-Centric, Performance-based CNS
- Benefits and challenges of Information in Cloud
- Autonomous Operations
- Safety assurance, verification, and validation of autonomous systems using Artificial Intelligence and Machine Learning (AI/ML)
- Cybersecurity
- Operational Efficiency (Airspace, Airport, Airspace Users, Airplane, and Air Traffic Systems)
- Aviation Sustainability (Environment, Economy and Society)
- Navigation and Alternative Positioning, Navigation, and Timing (APNT)
- Global Harmonization of Standards and Practices
- Global Aircraft Tracking
- Traffic, Terrain, and Advanced Weather Surveillance
- Spectrum Management
- Special Topics – Other papers are welcome that are of technical interest to the CNS community and describe enabling technologies for operational efficiency.

Abstract Submission

Authors are invited to submit their abstracts for technical paper by 1 November 2023, addressing one or more of the key topical areas listed above or special topics relevant to aeronautical CNS. Abstracts should clearly define the goal of the work, its tasks, methods, or results (anticipated or completed) as well as the potential benefits or applications of the work. Abstracts need to be clear and concise, with at least 250 words and no more than 750 words.

Deadlines:

- Abstract submission: 1 November 2023
- Notification of acceptance: 15 December 2023
- Final papers due: 1 March 2024

Sponsors and Exhibits

ICNS 2024 is a great place to do business. Sponsorship opportunities are now available. Exhibits and product demonstrations by representatives of CNS-related industries and organizations are part of this conference. Participating as an exhibitor in the conference allows personal interaction with customers and key policy decision-makers from around the world to help move your research and products closer to daily operations. The ICNS 2024 team is working hard to connect ICNS sponsors with the ICNS community and to highlight the visibility of our sponsors' messages throughout the year – before, during, and after the conference.

For more information, contact Sponsors and Exhibits Chair Mark Darnell, sponsor.exhibits.chair@i-cns.org.

ICNS is a not-for-profit event, jointly organized by the American Institute of Aeronautics and Astronautics (AIAA) Digital Avionics Technical Committee (DATC) and the Institute of Electrical and Electronics Engineers (IEEE) Aerospace and Electronic Systems Society (AESS), with active support from industry and government. Paul Prisaznuk, General Chair, 2024.

See <https://i-cns.org/> for details or scan the QR code:

