



The 25th Anniversary of the Integrated Communications, Navigation, Surveillance (ICNS) Conference

April 8-10, 2025

**EUROCONTROL Headquarters
Brussels, Belgium**

*ICNS 2025 is
an in-person
conference*

Proudly hosted by



Call for Papers and Sponsors

Conference Theme:

Integrated CNS: Towards Innovative and Efficient CNS Service Provision

The Integrated Communications Navigation, and Surveillance (ICNS) Conference is the premier international aviation 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. This includes air navigation service providers (ANSPs), communication service providers, aircraft manufacturers, airspace users, government and regulators, academia, and many aviation industry suppliers.

ICNS 2025 will explore the CNS evolution and address innovative models of service provision focusing on the technical developments, global harmonization, and future opportunities for communication, navigation, and surveillance technologies to expand the CNS role in ensuring the safety, reliability, efficiency, and sustainability of aviation.

The ICNS 2025 edition will take place for the first time in Europe – facilitating the participation and active involvement of new participants, as well as bringing the conference closer to other major centers of aviation. ICNS 2025 will be a three-day in-person event to be held at the EUROCONTROL Headquarters in Brussels, Belgium. The conference will include plenary sessions and technical discussions. Each plenary session will address a CNS topic of global relevance. Distinguished speakers will set the stage for the policy, economic, operational, and technological aspects of the plenary. Each technical discussion will be a paper presentation followed by Q&A.

The ICNS Conference provides an excellent opportunity for networking with friends and colleagues from across the world during the breaks and social events, and for sharing views and ideas with policymakers and researchers.

Call for Papers and Presentation Topics

Authors are invited to introduce their work to the ICNS community. This is a great way to present your scientific and technical ideas, refine your research, and present your findings. Technical papers along with presentation slides are solicited for the technical sessions, focusing on the key topical areas listed below:

- ▶ Air Traffic Management (ATM), UAS Traffic Management (UTM) and Space Traffic Management (STM)
- ▶ Aviation Sustainability (Environment, Economy, and Society)
- ▶ Communication, Navigation, and Surveillance Services and Systems
- ▶ Connected Aircraft Concept and Hyperconnected Air Traffic Management
- ▶ Cybersecurity
- ▶ Datalink and Connectivity
- ▶ Flight Deck Applications, Automation, and Evolution
- ▶ Global Aircraft Tracking
- ▶ Global Harmonization of Operations, Standards, and Practices
- ▶ Global Navigation Satellite Systems (GNSS) and Alternative Positioning, Navigation, and Timing (APNT)
- ▶ Info-Centric, Performance-based CNS
- ▶ Operational Efficiency – Airspace, Airport, Airplane, Routing, etc.
- ▶ Satellite-based Systems for CNS
- ▶ Service provision, innovation, resilience, and efficiency
- ▶ Spectrum Management
- ▶ Traffic, terrain, and advanced weather surveillance
- ▶ Use of Artificial Intelligence and Machine Learning (AI/ML) for safety assurance, verification, and validation
- ▶ Other topics – papers are also welcome for submittal even if they do not strictly cover the above areas, provided they are of interest to the ICNS community and relevant to CNS technologies and operations.

Take advantage of this opportunity to share your ideas, insights, and information with other thought leaders and technical experts from around the world and shape the future of aviation!

Sponsors and Exhibits

ICNS 2025 will bring together top professionals, decision-makers, researchers, and innovators in aviation, networked systems, and related industries. Sponsoring the event offers a unique opportunity to showcase your brand to this audience. The 2025 ICNS Conference will be held in-person, ensuring great networking opportunities and plenty of face-to-face contact.

By sponsoring ICNS 2025, your organization will also be associated with policy and industry direction setting debates, cutting-edge research, technology, and industry developments. This positions your company as a leader in advancing global connectivity and technological evolution in networked systems.

Exhibits and product demonstrations are also invited. 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 products and ideas closer to daily operations. The ICNS 2025 team is connecting ICNS stakeholders and helps promote the messaging of our sponsors - before, during, and after the conference.

For more information, please contact David Batchelor, Sponsors and Exhibits Chair, sponsor.exhibits.chair@i-cns.org.

Best Paper Competition – Student and Professional

ICNS 2025 will include student and professional Best Paper competitions. Active students and professionals within two years of graduation are eligible for the ICNS Student Best Paper honorarium awards. Those not eligible for Best Student Paper are eligible for Best Professional Paper awards. Your paper must be submitted by the final paper due date to be eligible for grading.

Abstract Submission

Authors are expected to address one or more of the key topical areas listed above or address a similar topic of technical relevance to CNS development.

Abstracts should clearly define the goal of the work, its tasks, methods, and 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.

For questions, please contact the Technical Program Co-chairs, Dr. Rainer Kölle & Paul Prisaznuk, technical.chair@i-cns.org.

Submission Deadlines *(dates are subject to change)*

- ▶ **Abstract submission:** 15 December 2024
- ▶ **Notification of acceptance:** 15 December 2024
- ▶ **Final paper due:** 10 February 2025
- ▶ **ICNS 2025:** 8 – 10 April 2025

ICNS 2025 Organizing Committee

Conference General Co-chairs

Dr. Nikos Fistas, EUROCONTROL
Brent Phillips, FAA
conference.general.chair@i-cns.org

Plenary Program Co-chairs

Sherry Yang, The Boeing Company
Cristian Pradera, SESAR Deployment Manager (SDM)
plenary.program.chair@i-cns.org

Technical Program Co-chairs

Dr. Rainer Kölle, EUROCONTROL
Paul Prisaznuk, ARINC (Retired)
technical.chair@i-cns.org

Workshop Co-chairs

Dr. Rainer Kölle, EUROCONTROL
Dr. Lance Sherry, George Mason University
workshop.chair@i-cns.org

Sponsors and Exhibits Co-chairs

David Batchelor, SESAR Joint Undertaking
Christine Stewart, SESAR Joint Undertaking
Ann Tedford, Aviation Management Associates, Inc.
sponsor.exhibits.chair@i-cns.org

Finance Chair

Denise Ponchak, NASA Glenn Research Center (Retired)
finance.chair@i-cns.org

Technical Publications Chair

Alexis Wisdom, Conference Catalysts
publications.chair@i-cns.org

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Dr. Michael Schnell, DLR
Aloke Roy, VisionAR Systems, LLC
michael.schnell@dlr.de

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Dr. Lance Sherry, George Mason University
student.awards.chair@i-cns.org

Registration Chair

Alexis Wisdom, Conference Catalysts
registration.chair@i-cns.org

Local Arrangements and Social Chair

Christine Stewart, SESAR Joint Undertaking
local.arrangements.chair@i-cns.org

Communications Chair

Rafael Apaza, NASA Glenn Research Center
communications.chair@i-cns.org

ICNS Executive Committee Chair

Aloke Roy, VisionAR Systems, LLC
iec.chair@i-cns.org

About the ICNS Conference

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 supports from industry partners, government agencies, and academia.

For more information:

<https://i-cns.org>

