



CALL for Papers - IEEE NAECON July 28-31, 2025

Abstract and 3-page Paper Due: May 26, 2025

Final Paper Due: August 8, 2025

Submission Details: attend.ieee.org/naecon-2025

The 2025 IEEE National Aerospace and Electronics Conference (NAECON) will be conducted in person at the Holiday Inn, Fairborn, OH.

Welcome to the 77th NAECON United Nations International Year of Quantum Science and Technology



NAECON is the oldest and premier IEEE Conference presenting research in all aspects of theory, design, and applications of aerospace electronics systems.

Sponsored by: IEEE Dayton Section and University of Dayton

Supported by: Air Force Institute of Technology, Wright State University, The Ohio State University, The University of Cincinnati, IEEE Circuits & Systems Society (CAS), IEEE Aerospace & Electronics Systems Society (AESS), and IEEE Microwave Theory and Technology Society (MTT-S)

NAECON 2025 will include tutorials and special sessions. An industry forum is planned with exhibits, and a student networking dinner to explore the ways IEEE can support young professionals.



CALL for Papers - IEEE NAECON July 28-31, 2025

NAECON 2025 Sessions Planned

AES Focused Sessions:

(AES1) Emerging microelectronics: wider bandgap semiconductors, microfabrication, packaging, integration, microelectronics in RF, power, and extreme environment systems

(AES2) Autonomous Systems: architecture, communication, networking, robotics, terrestrial and space applications.

(AES3) Integrated Photonics: communications through interconnects and/or free space, LIDAR, photonic sensors, integrated photonics

(AES4) RF/Microwave/Millimeterwave and THz Systems: AESAs, SATCOMs, SARs, UAVs, electronic warfare and countermeasures, THz imaging and sensing, space exploration

(AES5) Cyber Systems and Security: software and networking, trusted and assured hardware, digital engineering

(AES6) Applications in Biomedical/Human Performance: Integrated human effects models, Real-time human digital twins, Brain machine interfaces (BMI) and Autonomy in Medicine, bio-inspired sensors

CAS Focused Sessions:

(CAS1) Sensors: Low SWaP/form factor, Distributed sensor arrays, Frequency agile systems

(CAS2) Quantum: Quantum Computing, Quantum Networking, Quantum Sensing and Timing

(CAS3) Artificial Intelligence and Machine Learning: Collaborative/multi-agent systems, Autonomous Guidance, Navigation, and Control, AI for Cognitive Sensing and Data Fusion, Enabling technology for Artificial Intelligence

CALL FOR PAPERS FOR IEEE NAECON 2025

Prospective authors are invited to submit a **50-word abstract + minimum 3-page paper** for consideration by **May 26, 2025** through Mira Conference (**website coming soon!**)

All submissions will be considered by the technical program review committee.

Each submitted paper should identify the “Subject Area” and include information about the contact author (name, mailing address, phone, and email). **Authors should obtain company and government clearances prior to submission of abstracts and full papers.**

Note: Each accepted paper requires a full author registration. An author will be allowed to register for one paper only with his/her main registration. Authors need to have full registration to attend and present a paper, even if another coauthor has registered a shared paper as an additional submission. Submission is in electronic format.



CALL for Papers - IEEE NAECON July 28-31, 2025

Acceptable format: PDF (IEEE Xplore compatible PDF). Accepted papers will be published in the conference proceedings and accessible through IEEE Xplore, subject to advance registration of at least one of the listed authors, and presentation of the papers. **Revised final papers are due by August 8, 2025.** IEEE copyright release forms are required with the final camera-ready papers. All papers will be judged with respect to their quality, originality, and relevance to NAECON. Nominations will be solicited for the D.W. Repperger Best Paper Award (POC: Dr. Robert Ewing). The best student paper will be selected, and a Best Student Paper Award conferred.

Full submission details will be available on the conference website at:
<https://attend.ieee.org/naecon-2025>

	IEEE Member	IEEE Student Member	Non-IEEE Member	Non-IEEE Student Member
Full Registration (Early)	\$550	\$300	\$650	\$350
One-day Registration (Early)	\$250	n/a	\$300	n/a
Full Registration	\$625	\$300	\$725	\$425
One-day Registration	\$325	n/a	\$375	n/a

NAECON Early Registration Deadline: June 30, 2025

Cost includes Tutorials, Lunches, Banquet Dinner, and access to the Proceedings.

One day registration (includes banquet ticket) is available for non-presenting attendees