

CALL for PAPERS



Abstract & 3-page Paper Due: May 15, 2024

Final Paper Due: June 28, 2024

Submission Details Coming Soon!

<https://attend.ieee.org/naecon-2024/>

**Welcome to the 76th year of the IEEE National Aerospace and
Electronics Conference (NAECON)**

July 15 – 18, 2024

In-Person at the Holiday Inn Conference Center in Fairborn, OH

This year's theme is:

Machine Learning/Artificial Intelligence for DoD System/Sensor Collaboration

A DOD breakout session will be held July 18th at Wright Patterson AFB, OH.

Sponsored by:

IEEE Dayton Section
University of Dayton



Supported by:

Air Force Institute of Technology
Wright State University
University of Cincinnati
Ohio State University



IEEE Circuits & Systems Society (CAS)
IEEE Aerospace & Electronics Systems Society (AESS)
IEEE Microwave Theory & Technology Society (MTT-S)



Technical Sessions and Chairs

| AES Focused Sessions: | | |
|------------------------------|--------------------------------------------------------------------------------|------------------------------------------------------------------------------|
| AES1 | Aerospace Power Systems and Power Electronics | Bang Hung-Tsao, UDayton Roshan Kini, PNNL |
| AES2 | Autonomous Systems | Vijayan Asari, UDayton Tim Machin, AFIT |
| AES3 | Integrated Photonics | Andrew Sarangan, UDayton Jarrett Vella, AFRL/Ryd |
| AES4 | Radar, Tomography and RF Sensing | John Malas, UDayton Brian Rigling, UDayton |
| AES5 | Machine Learning, Guidance and Control | Trevor Bihl, AFRL/Ryd Anca Ralescu, UCincinnati |
| AES6 | Millimeter-Wave and Terahertz Technology | Elliott Brown, WSU Mike Saville, AFIT |
| AES7 | Cyber Systems and Security Chair | Mark Reith, AFIT Frank Wolff, KBR |
| CAS Focused Sessions: | | |
| CAS1 | Low SWaP/Form Factor, Distributed, and Agile Sensors | Marc Hoffman, AFRL/Ryd Stefan Westberg, AFRL/Ryd |
| CAS2 | Manufacturing, Packaging, and Integration of Emerging Microelectronics | Vamsy Chodavarapu, UDayton Amy Doll, UDayton Robert Ewing, AFRL |
| CAS3 | Signal/Image Processing and Sensor Data Fusion | Ken Hopkinson, AFIT Barath Narayanan, UDayton Bradley Ratliff, UDayton |
| CAS4 | Deep Learning and Artificial Intelligence | David Kapp, AFRL Tem Kebede, AFRL |
| CAS5 | Quantum Computing, Communication, and Sensing | Charles Cerny, AFRL Leleia Hsia, AFIT |
| CAS6 | Electronics in Extreme Environments/Applications and WBG Semiconductors | Ahmed Islam AFRL/Ryd William Kennedy, AFRL/RX |
| CAS7 | Enabling Hardware for Artificial Intelligence | Ken Hopkinson, AFIT William Kennedy, AFRL/RX |
| Special Sessions: | | |
| SS1 | Trusted Microelectronic Systems | Nicholas Kovach, AFRL/Ryd Frank Wolff, KBR |
| SS2 | Systems, Human and Cybernetics | Amy Doll, UDayton Robert Ewing, AFRL/Ryd |

CALL FOR PAPERS FOR IEEE NAECON 2024

- **Prospective authors are invited to submit a 50-word Abstract and a minimum of a 3-page Paper for consideration by May 15, 2024.**
- All submissions will be considered by the Technical Program Committee. All papers will be judged with respect to their quality, originality, and relevance to NAECON 2024.
- **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.
- **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.
- Submissions will be made electronically in PDF format (**IEEE Xplore compatible PDF**) – **Instructions Coming Soon at the conference website.**
- 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 June 28, 2024.**
- IEEE copyright release forms are required with the final camera-ready papers.
- 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.

REGISTRATION

- **NAECON 2024 Early Registration Deadline is July 5, 2024**
 - IEEE Member (\$550)
 - Non-IEEE Member (\$650)
 - IEEE Student Member (\$300)
 - Non-IEEE Student Member (\$350)
- **Cost includes Tutorials, Lunches, Banquet Dinner, and access to the Conference Proceedings.**
- **Price increases by \$75 after the early registration deadline.**

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