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IN THIS ISSUE:

[UPCOMING EVENTS](#)[STORY BEHIND THE SUCCESS](#)[HISTORY COLUMN](#)[2024 AWARD WINNERS](#)[MAES EIC](#)[MEMBER NEWS](#)[CHAPTER NEWS](#)[PUBLICATIONS NEWS](#)[CONFERENCE NEWS](#)

QUARTERLY EMAIL BLAST

OFFICIAL NEWSLETTER OF THE IEEE AEROSPACE AND
ELECTRONIC SYSTEMS SOCIETY - Q2 2024

FROM THE EDITORS

Dear AEES Members,

We are thrilled to bring you the latest edition of the Quarterly Email Blast (QEB), packed with engaging articles and updates from the world of aerospace and electronic systems.

In this edition, we are excited to feature the inspiring story "Story behind the Success" by Francesco Fioranelli, who recently received the prestigious Fred Nathanson Award. In the history column you can learn about Lord Kelvin and his discovery of the Kelvin wake. Don't miss the article on the distinguished lecture given by Dr. Jose Morales, hosted by the IEEE AEES Lone Star Section. Finally, you can read about the YP event at the IEEE Radarconf and about the exciting Dronathon event, a joint effort between IEEE Ensit SB and IEEE AEES Ensit SB Chapter.


We hope you enjoy these articles and find them both informative and inspiring.

Happy reading!

Francesca Filippini and Philipp Markiton
Editors-in-Chief, AEES QEB


Upcoming Virtual Distinguished Lecturer


[Transport Protocols for Space Internet](#)

 Tuesday, July 9 - 11:00 AM ET/3:00 PM UTC


 Ruhai Wang

[Register](#)[Direction-Of-Arrival Estimation: Approaches and Recent Advances](#)

 Tuesday, July 23 - 6:00 AM ET/10:00 AM UTC


 Elias Aboutanios

[Register](#)["A Day in Space": Astronaut Training](#)

 Wednesday, July 31 - 11:00 AM ET/3:00 PM UTC

 Giovanna Estefanía Ramírez

[Register](#)[Performance Prediction Modelling for Maritime Radar](#)

 Monday, August 12 - 4:00 AM ET/8:00 AM UTC

 Luke Rosenberg

[Register](#)

Features

Story Behind
the Success

2024 Fred Nathanson Memorial Radar Award Recipient

The Nathanson was established to recognize a young (less than 40 years of age on December 31 before the nomination deadline) AESS radar engineer whose performance is particularly noteworthy as evidenced by his contributions to the radar art.

Read about this year's recipient, Francesco Fioranelli, in this quarter's "Story Behind the Success" column.

[Read More](#)



the
HISTORY
column

Kevin Wake

William Thomson, Lord Kelvin, was a British physicist born in Belfast, Northern Ireland in 1824. He spent his entire career as a Professor of Natural Philosophy at the University of Glasgow. He is best known for his work on thermodynamics, in which he established the concept of absolute zero and absolute scale of temperature, the unit of which bears his name.

[Read More](#)

Congratulations to the 2024 Awardees

Congratulations to all AESS and RadarConf'24 Award recipients on these remarkable achievements! Your hard work, dedication, and contributions to the AESS and Radar communities are truly appreciated. Explore the full list of awardees and view photos from the 2024 RadarConf'24 Award Ceremony.

[Read More](#)

AES Magazine Announces New EiC

Join us in congratulating Pau Closas for being selected as the Editor-in-Chief (EiC) of the AESS Magazine by the AESS Board of Governors. Pau will lead the magazine from July 2024 to June 2027. Discover more about Pau Closas.

[Read More](#)



Young Professionals Event at IEEE Radar Conference

Attendees of the 2024 IEEE Radar Conference's Young Professionals event in Denver, CO, enjoyed an evening of networking, insightful talks on radar technology, and valuable connections with peers and industry experts.

[Read More](#)

EPICS in IEEE: Space and Agriculture Robotics (ROKIT)

Check out the Space and Agriculture Robotics (ROKIT), a groundbreaking EPICS in IEEE project from the students of Universidad del Cauca in Colombia, involved in developing educational robotics kits specializing in agriculture for the Colombian community. Watch to see their project launched in the local community.

[Read More](#)

AESS Seeks Your Input to Enhance Networking & Mentoring Program. Complete Our Brief Survey!

Help shape the future of professional growth within the AESS community by participating in our brief survey. Your insights will ensure our Networking & Mentoring Program meets your needs and aspirations, whether you're a seasoned professional or a budding engineer.

[Read More](#)

IEEE AESS-ComSoc-SPS Hosts ISAC Workshop at the University College London

The first IEEE AESS-ComSoc-SPS Joint Workshop on Integrated Sensing and Communication (ISAC) at University College London on May 17 gathered global experts to discuss future wireless technology, covering topics from theory to experimentation, and included a panel on ISAC and 6G.

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CHAPTER NEWS

National Higher Engineering School of Tunis Hosts Dronathan

[Read More](#)

workshops, conferences, and challenges, spotlighting advancements in 3D design, AI, and entrepreneurial ecosystems. [Read](#) their newsletter *Shaping the IEEE Community: Insights from the IEEE AESS ENSIT SB Chapter*.

IEEE AESS & SPS Peru Joint Chapter Hosts 2024 INCAS

[Learn More](#)

The International Conference on Aerospace and Signal Processing (INCAS) 2024 invites submissions for its hybrid event in Cusco, Peru, from November 28-30, 2024. This biannual IEEE conference promotes interdisciplinary knowledge in signal processing and aerospace systems, fostering collaboration among professionals, researchers, and industry leaders to advance technological innovations. Submit a paper by August 7.

Lone Star Section Chapter

[Read More](#)

The IEEE AESS Lone Star Section Chapter has recently hosted a series of notable presentations, including Dr. Jose Morales' talk on "Physics-Informed-Neural-Networks for the Wigner-Fokker-Planck Model of Open Quantum Systems," and Harisson Hanconck's introduction to electronic warfare. Additionally, the chapter organized events featuring Truman Hickok's insights on deep continual learning and Dr. Garrett Jares' discussion on securing machine learning against adversarial attacks, underscoring the chapter's focus on cutting-edge research and practical applications in aerospace and defense.

Welcome New AESS Chapters

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AESS has over 150 chapters around the world including 76 Student Branch Chapters.

 AESS welcomes its newest chapters:

- Istanbul Technical University
- Universidade Estadual de Campinas
- Universidad Nacional de Trujillo-La Libertad

Publications

Update from the Editor-in-Chief, Gokhan Inalhan

We are pleased to announce several significant changes aimed at improving the experience for our authors and further enhancing the impact of our journal. Firstly, we have removed the requirement for single-column paper submissions, making it easier for authors to prepare their manuscripts. Starting in 2025, we will transition from bimonthly volumes to a single annual volume, allowing articles to be published immediately after typesetting. This change will expedite the dissemination of research findings.

More importantly, we have **reduced the initial review period from 60 days to 45 days** to help minimize the backlog of submissions. Additionally, the review time for revised manuscripts has been shortened from 45 days to 30 days. These adjustments are intended to streamline the publication process and reduce the time authors spend in the review pipeline.

With these changes, we aim to provide a better author experience and continue our strong growth trend—having tripled the number of submissions over the past three years. We also expect these improvements to contribute to an increased impact in the years to come. One of our authors recently expressed gratitude "On behalf of the coauthors, I wanted to send this brief thank-you message for handling our submission in a most diligent, professional, and fast manner. I can see better now that it is not accidental that the impact factor of IEEE TAES increased from 4.4 last year to 5.1 this year, while the impact factors of most IEEE periodicals decreased in the same period." This feedback reflects the positive outcomes of our ongoing efforts to enhance the publication process and the quality of our journal.

NEW

IEEE TRANSACTIONS ON AEROSPACE AND ELECTRONIC SYSTEMS

Table of contents listing articles such as 'Aircraft Performance... in the 2020s', 'Aircraft Performance... in the 2020s', 'Aircraft Performance... in the 2020s', etc.

READ MORE



Read the Latest Issue



Read the Latest Issue

[IEEE Aerospace and Electronic Systems Magazine \(MAES\)](#)

Join us in congratulating [Pau Closas](#) for being selected as the Editor-in-Chief of AESS Magazine by the AESS Board of Governors. Pau will lead the magazine starting on July 1, 2024.

If you are interested in serving as an Associate Editor for the Magazine, please reach out to Pau.



OJSE is seeking submission for its upcoming special issue on "Performance Assessment for Multiple Target Tracking Algorithms."

Deadline to submit: 1 October 2024

[Download the Call for Papers](#)

The information fusion research community, prolific in publishing across various platforms, faces challenges in effectively transitioning advanced techniques to practical use due to insufficiently standardized performance metrics for system engineering evaluations. A special focus on multitarget tracking (MTT) algorithms aims to address this gap by emphasizing the need for systematic performance characterization, aiming ultimately to enhance the integration of MTT techniques into modern systems for improved performance efficiency.

Read the Latest Issue



IEEE Transactions on Radar Systems (T-RS)

T-RS is seeking submission for its upcoming special section on "Artificial Intelligence Approaches for Radar Processing and Applications"

Deadline to submit: 15 July 2024

[Download the Call for Papers](#)

In recent years, AI and ML have transformed radar technology across diverse domains, from automotive to healthcare and surveillance, showcasing their potential and challenges. This special section explores AI's expansive role in radar, addressing issues like data complexity, confidentiality, and system interpretability while fostering collaboration among experts to advance research and application.

Read the Latest Issue

Conferences

AESS financially and technically sponsors and co-sponsors conferences addressing important aspects of our Field of Interest. Refer to the conference website for the most recent information.

Read the Latest Conference Newsletter

List of AESS Sponsored Conferences

AESS Conference Guidelines



The Radar Systems Panel (RSP) of the IEEE Aerospace & Electronic Systems Society welcomes proposals from prospective organizers to host the 2028 IEEE Radar Conference. The notice of Intent is due 15 September 2024.

[Read More](#)

Registration is open for the world's premier conference that brings together the military/aerospace automatic test industry and government/military acquirers and users to share new technologies, discuss innovative applications, and exhibit products and services.

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