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QUARTERLY EMAIL BLAST

OFFICIAL NEWSLETTER OF THE IEEE AEROSPACE AND ELECTRONIC SYSTEMS SOCIETY
Q4 2022

FROM THE EDITORS

Dear AESS Members,

This edition of the QEB not only concludes this 2022, but also celebrates the upcoming 50th year since the founding of AESS, an important milestone that we will celebrate together throughout the coming year.

first in a series of meetings that we are planning for the coming months to reach out to everyone.

This edition's Story Behind the Success is dedicated to students, awarded in some of our major conferences. We hope their stories will be an inspiration to many young members. Moreover, learn more about the Great Seal in the History Column.

See you again in 2023 and get ready to celebrate our 50th anniversary! Enjoy reading.

All the best for the end of this year 2022 and a great new year,

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



Special Message
FROM THE PRESIDENT



To the IEEE Aerospace & Electronics Systems Society -- Present and Future Members,

The 2022 year has been very rewarding to our members in terms of new directions for AESS. We have returned to in-person conferences for the AES in our major conferences, with the increase in networking. And the attendance has returned to the pre-COVID periods. This is based on our strong industry participation at conferences with panels of leaders, support for student attendance, and attendance at the Women in Engineering and Young Professional meetings. And we are extending our Virtual Distinguished Lectures and Short Courses for the aerospace fields.

AESS has maintained a major growth in Student Branch Chapters in under-represented regions. These new students are the future of AESS and an input for Young Professionals and engineers for the evolving industry in these Regions. This effort in Region 8 (North Africa), Region 9 (South America) and Region 10 (India) will grow AESS student membership and improve education based on these AESS Distinguished Lecture Series.

IEEE has a New Initiative program to provide growth in membership and education in under-represented regions, in line with IEEE's "Advancing Technology for Humanity". Based on the growth of our Student Branches, AESS has formed an initiative for Distributed Sensing Technology for Innovation and Education (DSTIE). IEEE Technical Activities has approved Grant funding in 2023 for students to work as teams in their IEEE Sections on challenging aerospace system design.


Please take a look at the new [AESS website](#) and plan on inviting your colleagues to join as new members in 2023.

[IEEE Young Professionals in Space Congress](#)

📅 19-22 December 2022

The 4th worldwide edition of the Young Professionals in Space will be held in conjunction with the 10th Tunisian Students and Young Professionals Congress which is the largest event in the whole Tunisia Section. [>> Learn More](#)

Features




Story Behind
the Success

[Student Paper Winners at 2022 Radar](#)

As the winners of the Student Paper Competition at the 2022 IEEE Radar Conference, we are honored to share this success story with the AESS community.

Jonathan Owen, Christian C. Jones, and Daniel Whited share their stories here.

[Read More](#)

Story Behind
the Success

DASC Student Research Competition

Students participated in the 2022 Digital Avionics Systems Conference Student Research Competition in Portsmouth, VA, USA from 18-22 September. Finalists presented in a second round, student interactive session. Winners received a certificate and cash prize.

2022 Winners: Ramchander Bhaskara, Yibing Xie, and Alex Henderson.

[Read More](#)

The History Column

The Great Seal (also known as 'The Thing') was an ingenious covert eavesdropping device deployed by the Soviets against staff at the US Embassy in Moscow. It was devised by the Russian scientist Leon Theremin, who also invented the electronic musical instrument which bears his name (perhaps most familiar in the theme music for the TV program 'Star Trek').

[Read More](#)

[2023 Awards Deadlines Extended](#)

The deadlines for the Distinguished Service Award and Engineering Scholarship have been extended to 31 January 2023.

There's also still time to submit nominations for the Warren White, Fred Nathanson Memorial Award, and more.

[Read More](#)

Member News



[2023 IEEE Fellows](#)

Congratulations to the four AESS members on being selected to the IEEE Fellow Class of 2023.



[2022 Senior Members](#)

AESS elevated 51 members to the IEEE Grade of Senior Member in 2022. Nominate a deserving colleague today!



[2022 Award Winners](#)

Congratulations to the 2022 winners and thank you for your contributions to our community!



[Share your AESS Memories](#)

We would like to honor and remember the technical achievements in our field and the people, places, and events. Submit your favorite memory from the last 50 years.

CHAPTER NEWS

Region 8 Chapter Summit and ISAC Workshop

Region 8 Chapter Chairs, Board of Governors Members, and community members met in Edinburgh, Scotland for a BoG Meeting, Chapter Summit, and Integrated Sensing Communications Workshop.

[Read More](#)

IEEE AESS ESPRIT Student Branch Organizes ESPRIT Conference

In order to celebrate world space week, IEEE AESS ESPRIT student branch chapter, the Tunisia section organized its first edition of Aerospace technologies ESPRIT conference on 15 October.

[Read More](#)

IEEE AESS Galveston Bay Section Joint Chapter Hosts AESS Week

The chapter organized AESS Week which included a Distinguished Lecturer and two speakers from Boeing Phantom Works and Commercial Space Technologies.

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IEEE AESS Lone Star Section Joint Chapter Halloween Drone Competition

The Lone Star Section's Joint AESS/SMC/SYSC Chapter held their annual Halloween Drone Competition 29 October hosted at St. Mary's University in San Antonio, Texas. This STEM outreach event focused primarily on

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IEEE AESS Queensland Chapter Annual Report

Chapter Chair, Vaughn Clarkson, provides a report of the activities and events of the Queensland Chapter in 2022 including a seminar and short course featuring AESS President-Elect Sabrina Greco.

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Publications

IEEE Transactions on Aerospace and Electronic Systems

IEEE Transactions on Aerospace and Electronic Systems (TAES) focuses on the organization, design, development, integration, and operation of complex systems for space, air, ocean, or ground environment. These systems include, but are not limited to, navigation, avionics, spacecraft, aerospace power, radar, sonar, telemetry, defense, transportation, automated testing, and command and control.

[Current Issue](#)[Call Board](#)

Letter from the Editor-in-Chief, Michael Rice

In November, we received a report from IEEE Technical Activities analyzing the performance of all of IEEE's journals and transactions. Of the metrics used to quantify a journal's "performance", two important ones are (1) the average time to from submission to first decision, and (2) the average time from submission to online post. The journals whose performance was in the top 25% for the two measures simultaneously, were designated "first quartile" journals. We are pleased to report that IEEE Trans. Aerospace and Electronic Systems is a first quartile journal.

This achievement is a direct result of the hard work and dedicated effort by our associate editors. We have made these measures point of emphasis over the past five years. (See Michael Rice, "IEEE Transactions on Aerospace and Electronic Systems: A Success Story", IEEE Aerospace and Electronic Systems Magazine, vol. 37, no. 5, pp. 49-

Recent Issues

[December 2022](#)[October 2022](#)[August 2022](#)[June 2022](#)[April 2022](#)[February 2022](#)

Letters Category to be Discontinued on 31 December 2022

Due to a small number of submissions and difficulties providing quick decisions, the TAES Letters category will be discontinued on 31 December 2022. The correspondence item category remains open and should be used by authors who wish to submit a short manuscript to crisply report a singularly important result. [>> Read the Announcement.](#)

IEEE Aerospace and Electronic Systems Magazine

The IEEE Aerospace and Electronic Systems Magazine is a monthly magazine that publishes articles concerned with the various aspects of systems for space, air, ocean, or ground environments as well as news and information of interest to IEEE Aerospace and Electronic Systems Society members.

[Current Issue](#)[Special Issues](#)

Upcoming Special Issues

[*Special Issue on Urban Air Mobility and UAS Airspace Integration: Vision, Challenges, and Enabling Avionics Technologies*](#)

 Manuscript Submission Deadline: 15 February 2023

[Special Issue on Space Domain Systems](#)

Recent Issues

[December 2022](#)[November 2022](#)[October 2022](#)[September 2022](#)[August 2022](#)[July 2022](#)

AESS Co-Sponsored Publications

IEEE Open Journal of Systems Engineering: Special Issue Deadline

The manuscript submission deadline has been extended for the *Special Issue on Front-end Need Analysis* to **15 January 2023**.

[Read More](#)

IEEE Transactions on Radar Systems: Special Issue Deadline


The deadline to submit manuscripts to this new publication's *Special Issue on Fully Digital Arrays for Radar: From Architecture to Algorithms* is **15 February 2023**.

[Read More](#)

Conferences

AESS financially and technically sponsors and co-sponsors conferences addressing important aspects of our Field of Interest. Please refer to each conference website for the most up-to-date information. (updated 9 December 2022)

[Manager](#) for details on how to have it included.




IEEE/ION PLANS 2023
24-27 APRIL 2023
Monterey, California

[IEEE/ION PLANS 2023](#)

The technical program is now available online for PLANS 2023. All technical papers will be peer-reviewed and published in *IEEE Xplore*.

Registration is now open!

[Conference Website](#)



IEEE FUSION 2023
27-30 JUNE 2023
Charleston, SC

The deadline to submit proposal for special sessions and demos is 1 February 2023 and full paper submissions is 15 February 2023.

[Download the Call for Papers](#)

[Conference Website](#)

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