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QUARTERLY EMAIL BLAST

OFFICIAL NEWSLETTER OF THE IEEE AEROSPACE AND
ELECTRONIC SYSTEMS SOCIETY - Q3 2024

FROM THE EDITORS

Dear AESS Members,

Welcome to the latest edition of the QEB, with updates and articles from the AESS community!

In this issue, we feature interviews with recipients of the AESS Engineering Scholarships, sharing their experiences. If you're interested in applying for the next round of AESS Engineering Scholarships, don't forget that the application deadline is December 1.

In our history column, we feature the remarkable contributions of Katherine G. Johnson, groundbreaking NASA mathematician whose early academic brilliance led her to play a critical role in calculating spacecraft flight trajectories. We also have an article and pictures of the FUSION conference, which took place in the city of Venice, Italy.

Be sure to explore the event reports from two active student chapters: the ESPRIT Student Chapter's "Astro Talk" and the ENSIT Student Chapter's "Artemis - A Journey from Apollo to the Future of Space Exploration." These reports, along with others from AESS chapters, are available in the Chapter News section.

Be sure to check out the announcements for next year's conferences and mark them on your calendar!

We hope you enjoy this edition!

Philipp Markiton
Editor-in-Chief, AESS QEB




[Dual Function Radar Communications Using Index Modulation](#)


 17 Tuesday, September 24 - 6:00 AM ET/10:00 AM UTC

 Elias Aboutanios

[Register](#)

[Space Sustainability](#)

 17 Wednesday, September 25 - 11:00 AM ET/3:00 PM UTC

 Marina Ruggieri

[Register](#)


[Adversarial Machine Learning for Radar](#)

 17 Wednesday, October 9 - 11:00 AM ET/3:00 PM UTC

 Uttam Kumar Majumder

[Register](#)

[Automotive MIMO Radar](#)

 17 Wednesday, October 16 - 11:00 AM ET/3:00 PM UTC

 Luke Rosenberg

[Register](#)

Features



[New Feature! AEES Student Interviews](#)

Apply for the AEES Engineering Scholarship by 1 December to propel your engineering career to new heights! Don't miss out on our latest series of insightful interviews featuring past scholarship recipients and their inspiring journeys in aerospace and electronic systems.

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the
HISTORY
column

Katherine G. Johnson was a groundbreaking NASA mathematician whose early academic brilliance led her to play a critical role in calculating spacecraft flight trajectories, including John Glenn's 1962 orbital mission. Her work laid a foundation for significant NASA programs, and she spent her later years encouraging young people, especially women, to pursue STEM fields.

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Nominations Open for 2025 AESS Awards

Celebrate the innovators and leaders in aerospace and electronic systems—nominations are now open for the prestigious IEEE AESS Awards, including the newly established Student Branch Chapter of the Year Award! Check the article for a schedule of upcoming deadlines.

[Read More](#)

Call for 2025-2026 Distinguished Lecturers

Share your expertise with a global audience—apply to become an IEEE AESS Distinguished Lecturer for 2025-2026! Don't miss the opportunity to inspire and engage with our community.

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AESS and GRSS Enter New Partnership

On June 23, 2024, the IEEE Aerospace and Electronic Systems Society (AESS) and the IEEE Geoscience and Remote Sensing Society (GRSS) executed Memoranda of Understanding (MOU). This partnership aims to drive innovation, foster interdisciplinary research, and accelerate advancements in both industries.

[Read More](#)

AESS at IEEE R8 SYP Grenoble 2024: Fostering Innovation and International Collaboration

At the 2024 IEEE Region 8 Student and Young Professional Congress in Grenoble, AESS made a notable impact through its outreach activities. Represented by Abir Tabarki, AESS Undergraduate Student Representative to the Board of Governors, the society highlighted its commitment to international collaboration and advancements in aerospace and electronic systems.

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AESS Joins IEEE Transportation Electrification Council

AESS has joined the IEEE Transportation Electrification Council (TEC) to contribute to the advancement of electrification in transportation. This collaboration aims to promote innovation in aerospace electrification and foster interdisciplinary efforts within the transportation industry. Membership is **free** for AESS members.

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Successful 2024 FUSION Conference in Venice, Crespillo Recognized for Award

From 7-11 July 2024, Venice hosted the 27th International Conference on Information Fusion (FUSION), where AESS co-sponsored the event and many members actively participated. During the conference, Omar Garcia Crespillo was honored with a plaque for receiving the 2023 AESS Early Career Award.

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LAN Gaming Event at Boeing Tech Port

The chapter hosted Women in Engineering Day with an AI/Robotics Spotlight Panel featuring Lynne Randolph, Prativa Hartnett, and Mariafernanda Amaya and a Young Professionals event featuring a social LAN gaming event at the Boeing Tech Port in San Antonio, Texas.

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IEEE AESS Italy Chapter Hosts Presentation of the New Solar-powered UAS Prototype from the Icarus-RA Local Group

The IEEE AESS Italy Chapter hosted the unveiling of a groundbreaking solar-powered UAS prototype in Turin, showcasing an innovative aircraft designed to set new endurance records while promoting environmental sustainability, and bringing together experts, industry leaders, and enthusiasts to celebrate a major leap forward in aerospace technology.

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AESS Hyderabad Chapter Hosts One Day Workshop on Radar Sensing and Imaging

On June 21, 2024, the IEEE Aerospace and Electronic Systems Society (AESS) Hyderabad Chapter successfully organized a one-day workshop on "Radar Sensing and Imaging" at the Defence Research and Development Organisation (DRDO) premises, RCI Road, Hyderabad. The event, which saw participation from eminent scientists and professionals in the field, focused on the latest advancements and challenges in radar technology.

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Yarmouk University to Host NASA Space Apps Irbid 2024: Innovating for Earth and Space Sciences

NASA Space Apps Challenge is making its debut in Irbid on October 5-6, 2024, at Yarmouk University. This global hackathon will unite students, professionals, and tech enthusiasts to tackle real-world challenges using NASA's open data, fostering innovative solutions in Earth and space sciences.

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IEEE AESS ESPRIT Student Branch Chapter Hosts Astro Talk 3.0: Expanding Horizons in Aerospace and Space Exploration

The IEEE AESS Esprit Student Branch Chapter hosted Astro Talk 3.0, a five-day event from July 10-14, 2024. Attendees explored the latest advancements in aerospace through expert-led talks, covering topics from CubeSats to C++ for simulations, inspiring students to deepen their interest in space exploration

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Future of Space Exploration"

The IEEE AESS Italy Chapter hosted the unveiling of a groundbreaking solar-powered UAS prototype in Turin, showcasing an innovative aircraft designed to set new endurance records while promoting environmental sustainability, and bringing together experts, industry leaders, and enthusiasts to celebrate a major leap forward in aerospace technology.

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IEEE AESS National School of Engineering Sfax SBC Hosts Tunisian Engineering Congress Week 1.0

The Tunisian Engineering Congress Week 1.0, taking place on September 21-22, 2024, in Monastir, Tunisia, will bring together top tech talent and industry leaders. Featuring a 12-hour hackathon, workshops, and expert speakers, the event will showcase the latest advancements in aerospace, energy, and circuits technology.

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Welcome New AESS Chapters

AESS has over 170 chapters around the world including 102 Student Branch Chapters.

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👏 AESS welcomes its newest chapters:

- Symbiosis Institute of Technology-Pune Student Branch Chapter
- KPR Institute of Engineering and Technology Student Branch Chapter
- Shanghai Section Chapter

Publications



IEEE TRANSACTIONS ON AEROSPACE AND ELECTRONIC SYSTEMS

Table of contents for the journal issue, listing article titles, authors, and page numbers.

READ MORE



Read the Latest Issue

Call for Papers for Special Issue: Near-Field Radar Technologies and Applications

TAES is inviting submissions for a special section dedicated to advancing 6G near-field radar technologies. This special section aims to highlight pivotal research, innovations, and theoretical insights that are crucial for shaping the next generation of wireless systems, emphasizing the significance of 6G nearfield radar, and it explores the unique capabilities and challenges posed by these advanced radar systems when operating in 6G contexts. Contributions are encouraged to address cutting-edge topics, including the integration of multi-antenna systems such as reconfigurable intelligent surfaces and holographic MIMO, which promise to revolutionize radar applications in 6G and beyond.

Manuscript submissions are due 15 January 2025. Learn more here.



Read the Latest Issue

IEEE Aerospace and Electronic Systems Magazine (MAES)

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.

If you are interested in serving as an Associate Editor or paper review, contact Editor-in-Chief Pau Closas.

Special Issue CFP banner for OJSE with IEEE logo and call for papers information.

IEEE Open Journal of Systems Engineering

OJSE is seeking submissions 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

improved performance efficiency.

IEEE Data Descriptions

2024 Volume 01 IEDRBF (ISSN 2995-4274)



A Joint Open Access
Publication of IEEE's
Societies and Technical
Councils

IEEE

[IEEE Data Descriptions](#)

IEEE Data Descriptions (IEEE-DATA), a periodical published on behalf of all IEEE Societies and Technical Councils, was launched in early May. IEEE Data Descriptions is a peer-reviewed journal publishing short articles on all aspects of data: data descriptors, data collections, and metadata. Its overarching purpose is to promote publicly available datasets in support of reproducible science while at the same time bringing insights into the associated dataset, data collection methods, and data quality.

[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.



RADAR 2025: Call for Papers Due November 15

Join us at the 2025 IEEE Radar Conference in Atlanta, Georgia, USA, where experts from around the world will share the latest advancements in radar technology and applications. Don't miss this opportunity to engage with thought leaders and explore cutting-edge research shaping the future of radar systems. Paper submissions due 1 November 2024.

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RADARCONF'25: Call for Tutorials and Special Sessions Deadlines Approaching

The 2025 IEEE Radar Conference will be held in Krakow, Poland, for the first time, jointly sponsored by the Aerospace & Electronic Systems Society (AEES), the IEEE Poland Section, and Polish Joint Chapter AP/AES/MTT. Submissions are due by 6 January 2025.

[Read More](#)[Read the Latest Conference Newsletter](#)[List of AEES Sponsored Conferences](#)[AEES Conference Guidelines](#)

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