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OFFICIAL NEWSLETTER OF THE IEEE AEROSPACE AND  
ELECTRONIC SYSTEMS SOCIETY - Q1 2025

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Dear AESS Members,

Welcome to the first edition of the QEB for this year! As always, we bring you exciting updates and articles to keep you informed about recent developments within the AESS society.

### Upcoming Events & Opportunities

**AESS Student & Young Professional Congress 2025:** Mark your calendars! The first-ever AESS Student and Young Professional Congress will take place in Nairobi, Kenya, from August 13-15. Stay tuned for more details on this major event, bringing together students and young professionals from across AESS.

**Travel Grants for RADAR 2025:** If you're planning to attend the International Radar Conference in Atlanta, USA, in 2025, you may be eligible for an AESS travel grant. These grants support YPs with a conference package that includes complimentary registration and hotel accommodation. Please note that travel expenses, such as flights, are not covered. You should have received an email with the application link—be sure to check your inbox or scroll down to Member News and apply!

### What's Inside This Edition?

**History Column:** Discover the fascinating story of Marian Rejewski, Jerzy Różycki, and Henryk Zygalski, Polish mathematicians and cryptographers whose groundbreaking work on the German Enigma machine laid the foundation for the legendary codebreaking efforts at Bletchley Park during WWII.

**Story Behind the Success:** Learn about the journey of Christian Jones, winner of the Robert T. Hill Best Dissertation Award 2024, for his

AESS Student Interviews: Meet Jinene Ben Said, who shares her experience as the Chair of the Student Branch Chapter at the Higher National Engineering School of Tunis.

Chapter News: Get updates on activities from The Lone Star Section Joint AESS/SYSC/SMC Chapter and the Student Branch Chapter at Yarmouk University.


These are just a few highlights—there's much more to explore in this edition!

As always, we value your feedback. Feel free to reach out with your thoughts and suggestions for future editions.

Happy reading!

Philipp Markiton  
Editor-in-Chief, AESS QEB

## Features



Story Behind  
*the* Success

### 2024 IEEE AESS Robert T. Hill Best Dissertation Award

Christian Jones recently received the prestigious Robert T. Hill Best Dissertation Award, recognizing his innovative research in radar signal processing. Throughout graduate school, Jones explored a variety of research interests, guided by mentors who helped him refine his ideas and expand his technical skills.

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## The History Column: The Polish Cryptographers Marian Rejewski, Jerzy Różycki and Henryk Zygalski

Polish mathematicians Marian Rejewski, Jerzy Różycki, and Henryk Zygalski made critical contributions to breaking the German Enigma code, laying the groundwork for the codebreaking efforts at Bletchley Park during WWII. Their innovative techniques and insights proved vital to Allied intelligence and wartime success.

[Read More](#)

## 2025-2026 Distinguished Lecturer Class

AEES is proud to announce the Distinguished Lecturer Class of 2025-2026. This group of experts will share their knowledge and insights on cutting-edge topics in aerospace and electronic systems. Through lectures and presentations worldwide, they will foster innovation and collaboration within the industry.

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## AEES Student Interviews

Jinene Ben Said's passion for engineering has led her to excel in the field of radar systems. In her interview with IEEE AEES, she shares how mentorship, perseverance, and hands-on experience have shaped her academic and professional growth. Ben Said encourages students to embrace challenges and seek supportive communities to thrive in engineering.

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## 2025 AESS YP TRAVEL GRANT

Application Deadline:  
April 1, 2025

### Apply for an AESS YP Travel Grant to Attend RADAR 2025

AESS is offering a Young Professionals (YP) Travel Grant to support early-career professionals attending RADAR 2025. This grant provides financial assistance for travel expenses, helping young professionals gain valuable insights in the field of radar technology.

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CALL FOR NOMINATIONS

## AESS MAGAZINE ASSOCIATE EDITOR

Nomination Deadline:  
31 March 2025

### Call for Nominations for IEEE AESS Magazine Associate Editors

AESS is seeking nominations for associate editors for the IEEE AESS Magazine. Candidates should have expertise in aerospace and electronic systems, along with strong writing and editing skills. Nominations must be submitted by March 31 through the IEEE AESS website.

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## 2025 AESS SYP CONGRESS LOCATION ANNOUNCED

NAIROBI, KENYA




### 2025 AESS SYP Congress Location Announced

The location for the 2025 AESS SYP Congress has been announced. The event will take place August 13-15, 2025 in Nairobi, Kenya, offering a unique opportunity for young professionals in aerospace and electronic systems to connect, collaborate, and share knowledge.

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## Senior Members

### IEEE Senior Member Elevations

Nominations for IEEE Senior Member elevations are open year-round, offering members the opportunity to advance their professional recognition within IEEE. Visit the IEEE AESS website to view the 2025 elevations and learn more about the nomination process.

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The IEEE AESS Lone Star Section recently celebrated National Engineers Week with a special proclamation and a DISCOVER IEEE meeting, highlighting the vital role of engineers in shaping the future. Additionally, the Lone Star Section Chapter hosted a cybersecurity panel featuring AESS member Nicole Webb, fostering insightful discussions on emerging threats and industry challenges.

### **IEEE AESS UK and Ireland Section Chapter Host Workshop on Spectrum and Phase Measurement of Agile Frequency Synthesizers**

The UK and Ireland Section Chapter recently hosted a workshop focused on Spectrum and Phase Measurement for Agile Communications. The event provided attendees with valuable insights into cutting-edge measurement techniques, addressing key challenges in the rapidly evolving field of wireless communications.

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### **IEEE AESS Yarmouk University Section**

Yarmouk University recently held a ceremony recognizing achievements in aerospace and electronic systems, celebrating the dedication of students and faculty advancing research in these fields. The event also highlighted the outstanding participation of AESS-YU members in the 12th Pocket Gamers Summit, showcasing their impressive contributions to satellite technology.

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### **Granada Univ Militar Nueva Host Zagi Race 2025**

Granada Univ Militar recently hosted the Zagi AESS Race 2025, an international competition that brought together top students and researchers in aerospace engineering. Participants showcased their skills by designing, building, and racing innovative autonomous aerial systems, demonstrating remarkable creativity and technical expertise.

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### **Universidad Nat'l San Antonio Abad del Cusco Section Organized a Critical Design Review of AESS UNSAAC DSTEI**

The Universidad Nacional de San Antonio Abad del Cusco (UNSAAC) recently hosted a successful Critical Design Review (CDR) event in collaboration with the IEEE Aerospace and Electronic Systems Society (AESS). This event provided students with the opportunity to present their innovative aerospace projects, demonstrating impressive technical skills and creative problem-solving.

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### **Welcome New AESS Chapters**

AESS has over 187 chapters around the world including 106 Student Branch Chapters.

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 AESS welcomes its newest chapters:

- Higher Institute of Computer Science
- Kenyatta University

## Publications

### [IEEE Transactions on Aerospace and Electronic Systems \(TAES\)](#)

#### Call for Papers for Special Section: Special Section on Sensor Fusion in Autonomous Systems

Autonomous vehicles used in modern civilian and military applications gather and process multi-modal data gathered from a variety of sensors – cameras, radars, lidars, and ultrasonic transducers – for a variety of applications such as intelligent transportation systems, urban planning, agriculture, remote sensing, and security and surveillance. The focus of this special issue is on original research in theoretical analysis, signal processing, machine learning, phenomenologies, prototype development, and data generation on multimodal sensor data collection and processing. Special emphasis will be given to techniques that are robust to sensor calibration errors especially when applied to distributed sensing platforms comprising of Unmanned Aerial Vehicle (UAV) drones and Unmanned Surface Vehicle (USV) platforms.

Manuscript submissions are due June 15, 2025. Learn more [here](#).

#### Call For Papers: Special Section Proposal on Near-Field Radar Technologies and Applications

The IEEE Transactions on Aerospace and Electronic Systems (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 near-field 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 June 15, 2025. Learn more [here](#).

#### 2024 IEEE TAES Associate Editor Recognition Award

Each year, TAES recognizes Associate Editors for their contributions to the journal. For 2024, the following editors were recognized. The editorial board staff and their respective areas can be found [here](#).



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Fabrizio Santi  
 Haejoon Jung  
 Jingwei Xu  
 Kumar Vijay Mishra  
 Chang-Hun Lee  
 Martina Mammarella  
 Quanyan Zhu  
 Yuri Shtessel

## [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 submit an application form by March 31. [Learn more.](#)



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## [IEEE Open Journal of Systems Engineering](#)

### Call for Papers: Special Issue on Digital Twins and System Engineering Process

Digital Twins are transforming industries by creating dynamic, data-driven links between physical assets and virtual models, enabling enhanced testing, design validation, and lifecycle analysis. When combined with Model-Based Systems Engineering (MBSE), they provide powerful tools for improving system resilience, accelerating development, and enhancing decision-making. As Digital Twins evolve to incorporate AI-driven insights and human-centered design, they offer new opportunities for predictive analytics and adaptive system responses. Despite their potential, challenges such as model fidelity, data integration, and cybersecurity remain key areas for research and innovation. This special issue invites contributions that address these challenges while advancing both theoretical foundations and practical applications in Digital Twin technology.

Manuscript submissions are due July 15, 2025. Learn more [here](#).



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aspects of our Field of Interest. Refer to the conference website for the most recent information.

### **RADAR 2025: Discounted Hotel Rates Until 11 April 2025**



The RADAR 2025 Conference has secured a special reduced hotel rate for attendees at The Courtland Grand in Atlanta, GA. To take advantage of this discounted rate, reservations must be made by April 11, 2025. Book early to ensure your accommodations and enjoy a convenient stay at the conference venue.

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### **Carnahan Call for Papers Deadline: June 30, 2025**



The 57th Annual International Carnahan Conference on Security Technology (ICCST) will take place from October 14-17, 2025, at the University of Texas at San Antonio. The conference is now accepting submissions for original, unpublished papers on a variety of security technology topics, including access control, biometrics, and cybersecurity. The deadline for paper submissions is June 30, 2025.

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