

About the IEEE Aerospace & Electronic Systems Society Newsletter

Dear AESS Members,

We hope you all are well and eager to read one of the most content-filled editions of the QEB.

In our History Column, you will discover the story of a brave young woman, Noor Inayat Khan.

Moreover, the recipient of the 2022 Fred Nathanson Memorial Radar award, Augusto Aubry, will tell us all about the major achievements of his successful career.

Also, surely many of you have met at the 2022 Radar Conference, organized in the most vibrant and lively New York City. You will read all about it and the several activities and events that have been organized, from the YP reception to the Radar Summer School and the Radar Challenge!

We hope you will find the included content interesting, and, as always, we welcome any suggestions you might have.

Enjoy reading,

Kind Regards,



Francesca Filippini and Philipp Markiton
Editors-in-Chief, AESS QEB
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Follow and Connect with AESS Online



A Special Message from the President

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

The Aerospace Electronics Systems Society has had a very productive First Quarter of 2022.



Everyone has been thankful that the COVID pandemic has been eased sufficiently that we have been able to cautiously return to in-person meetings. Two of our flagship conferences have returned with very successful attendance – IEEE Aerospace Conference in Big Sky Montana, USA and 2022 IEEE Radar Conference in New York City, NY, USA.

The big push for this year is to prepare for the 50th Anniversary of AESS, which was founded on 16 January 1973. AESS has led many technical developments in this past half century with the advent of the Global Positioning System and its improvement in real time navigation, application of high performance real time signal processing for both active and passive RF sensing, fusion of multiple sensors for improved awareness for both civilian and defense applications, and development of cyber security for global information exchange.

AESS is continuing to increase our membership and education initiatives. New Chapters are being opened in South America and India to attract new Students and Young Professionals. And a continuous outreach to Chapters in Regions 8 to 10 is being encouraged to leverage the Distinguished Lectures and Short Courses, based on the virtual platforms we have initiated over the past two years.

AESS has sustained the Diversity and Inclusion for aerospace engineers in geographic and technical participation, as well as, growth in our age and gender population. I encourage you to explore the [AESS website](#) to learn more about the valuable products and services that AESS provides to help you grow professionally. If you are not currently a member of AESS, please visit the [IEEE Membership Catalog](#) and join today!

Mark E. Davis
IEEE AESS President
2022-2023

The Story Behind the Success

Augusto Aubry received the [2022 Fred Nathanson Memorial Radar Award](#) for outstanding contributions to the application of modern optimization theory to radar waveform design and adaptive signal processing.



I am very grateful, proud, and honored to be the recipient of the 2022 IEEE Fred Nathanson Memorial Radar Award, which offers the opportunity to perpetuate the memory of Fred Nathanson, an exceptional educator and a leader in radar research.

Before summarizing the story of my career and the key steps to winning this prestigious IEEE Award, I would like to thank some special people, without whom I could have never reached this huge milestone in my life. First of all, I would like to thank all the folks within the Radar Systems Panel Awards Committee for recognizing my contributions among many deserving candidates. I would also like to thank Dr. A. Farina for his wonderful endorsement and for his continuous encouragement to do my best in both research and teaching. A special "thank-you" goes to my esteemed colleagues: Prof. S. Blunt, Dr. J. Guerci, Dr. M. Picciolo, and Prof. P. Willet for supporting my nomination with their impressive letters of commendation. Surely, I am grateful to my great friend, Prof. A. De Maio, who has always provided me with wonderful support throughout my career as a mentor, including a splendid letter for my successful nomination. " Augusto Aubry

[Full Story](#)

AESS Professional Networking and Mentoring Program

More information is available on the [AESS website](#). Mentors and mentees, it is easy to sign up for the program. Join us today!

[Sign Up](#)

The History Column: Noor Inayat Khan

Hugh Griffiths

University College London

Noor Inayat Khan was a young woman from an aristocratic and artistic Indian family which came to Europe in the early twentieth century. They lived in Paris in the 1930s, where she became fluent in French. As war loomed, they fled to London, and she enlisted in the Women's Auxiliary Air Force (WAAF).



Noor Inayat Khan

She trained as an agent and radio operator for the Special Operations Executive (SOE) that supplied and supported the French Resistance in their intelligence and sabotage work. On the night of 16 June 1943, she was sent into France, the first woman in this role.

[Read More](#)

Introducing the AESS History Corner

January 2023 marks the 50th Anniversary of the IEEE Aerospace and Electronics Society. We celebrate the Society's last 50 years and look forward to the next 50. Check out our collection of historical interview videos featuring Dave Dobson, LTCol John Tabor, Princess Marconi, and more and historical columns on the [AESS History Corner](#) page.

[Visit History Corner](#)

Member News

IEEE AESS Senior Members



Congratulations to the following AESS members who have been elevated to IEEE Senior Member Status. Senior Member is the highest grade for which IEEE members can apply. IEEE members can self-nominate, or be nominated, for Senior Member grade.

Abdul Razak	Abdul Hadi
James Agniel	Michael Miller
Loay Elbasyouni	Molahlegi Molope
Cesar Galarza Bogota	Ahmet Turan Ozdemir
Matthew Habib	Tariq Rahmani
Yiming Huo	Stephen Salaka
Lui Siew Kwok	Sheela Thangarajan
Zigmond Leszczynski	Francis Valentinis
	Bong-Jun Yang

Current Senior Members

IEEE AESS Fellows



Congratulations to the following AESS members who have been elevated to IEEE Fellow Member Status. IEEE Fellow is a distinction reserved for select IEEE members whose extraordinary accomplishments in any of the IEEE fields of interest are deemed fitting of this prestigious grade elevation.

Maruthi Akella - *for contributions to spacecraft control systems*

Chee-Yee Chong - *for contributions to information fusion methods for multi-sensor tracking*

Jerald Nespor - *for contributions Digital AESA Radar Systems*

Daniel Tazartes - *for contributions to inertial sensors and navigation systems*

Frank van Diggelen - *for contributions to assisted global navigation satellite systems for consumer applications*

Stefano Coraluppi

On 1 January 2021, Dr. Stefano Coraluppi, a long-time AESS member currently serving on the AESS Board of Governors, was elevated to IEEE Fellow "for contributions to multi-sensor multi-target tracking." Unfortunately, due to COVID, it was not possible to celebrate this elevation at an IEEE conference in 2021. On 6 March 2022, at the IEEE Aerospace

Conference in Big Sky, Montana, a long-time friend and professional colleague, Professor Peter Willett of the University of Connecticut (who serves currently as AESS VP Finance), presented the elevation certificate to Stefano.

Current Fellows

2022 IEEE AESS Virtual Distinguished Lecturer Webinar Series



Due to pandemic and travel restrictions, the traditional format of the Distinguished Lecturer Program (DLP) is not possible. The Virtual Distinguished Lecturer Program (VDLP) allows us to continue to serve the AESS participants and the aerospace and electronic systems community the opportunity to hear from our respected [Distinguished Lecturers](#). Registration is free for all webinars. If you are unable to attend the "live" virtual events, the presentations will be available after the event.

Register for a Webinar

Awards Recipients



Congratulations to all Aerospace and Electronic Systems Society Award Recipients on these remarkable achievements. Thank you for your hard work, dedication, and contributions to the AESS community!

2020 Harry Rowe Mimno Award

JindĀ™ich Dunik, Sanat K. Biswas, Andrew Dempster, Thomas Pany, Pau Closas - for the paper entitled *â€œState Estimation Methods in Navigation: Overview and Applicationâ€œ*

2021 IEEE AESS Chapter of the Year Award

Binghamton Section Joint Chapter –“ Chapter Chair: Vince Socci

Student Paper Competition at the 2022 IEEE Radar Conference

1st place: Jonathan Owen - “Real-Time Experimental Demonstration and Evaluation of Open-Air Sense-and-Notch Radar”

2nd place: Christian C. Jones - “Development & Experimental Assessment of Robust Direction Finding and Self-Calibration”

3d place: Daniel Whited - “Multi-rotor Drone Micro-Doppler Simulation Incorporating Genuine Motor Speeds and Validation with L-band Staring Radar”

2022 IEEE AESS Industrial Innovation Award

Azad M. Madni - for pioneering innovations in simulation-based training, intelligent-decision aiding, and intelligent-process management

2021 Associate Editor Recognition

Jihwan Choi, Marina Gashinova, Gustaf Hendeby, Chen-Fen Huang, Gokhan Inalhan, Andrea Laffitto, Junfeng Li, - Athanassios Manikas, Rick Meyer, Kumar Vijay Mishra, Hyo-Sang Shin, Yuri Shtessel, and Hao Xu - for outstanding contributions as a 2021 Associate Editor

2022 Fred Nathanson Memorial Radar Award

Augusto Aubry - for outstanding contributions to the application of modern optimization theory to radar waveform design and adaptive signal processing

2018 M. Barry Carlton Award

Yulong Huang, Yonggang Zhang, Zhemin Wu, and Jonathon Chambers - for the 2018 TAES article “A New Adaptive Extended Kalman Filter for Cooperative Localization”

To read the full Barry Carlton Award announcement from the TAES EiC, Michael Rice, click [here](#).

AESS Awards

AESS India Membership Initiative



As part of the AESS India Membership growth and Engagement Initiative following efforts are being made to increase membership, engage members, and keep AESS relevant and vibrant in India: (1) Members are encouraged to open AESS Chapters in their respective Sections; and (2) Student Branches and students are encouraged to open Student Chapters. Under this initiative, it is also planned to provide (1) Necessary assistance and guidance to members and student members to open chapters by physically meeting them; and (2) organize sessions on the benefits of AESS Membership in their respective section/college. The overall objective of this initiative is to double the AESS membership in India by the end of 2022. After the launch of this initiative, 26 new AESS members were added in April 2022 including one Student Branch Chapter at the Kalinga University, Raipur and one Student Branch Chapter formation petition was filed. AESS India welcomes all the new members and student chapters.

One can reach out to Mr. Puneet Kumar Mishra, IEEE AESS BoG Member, at mishra_puneet@ieee.org for any support needed for opening a chapter in their respective section/student branch, propagating the advantage of joining AESS through physical/virtual meet, or volunteering for any of the above-mentioned initiatives.

[Read More](#)

Virtual Summit on Advances in Electro-optics and Photonics System's Simulation in Aerospace and Defence

IEEE Aerospace and Electronics Systems Society in association with IEEE MTT/AP Society Bangalore Chapter and Ansys organized a "Virtual summit on Advances in Electro-optics and Photonics System's Simulation in Aerospace and Defence" on 21 May 2022. 125 participants attended the program. This virtual summit addressed some of the key challenges that we face today in the world of virtual validation and optical simulations. The summit showcased the advancements in the field of aero optic simulations and the future of the same.

[Learn More](#)

IEEE NTC WIN – Virtual Round Table, DEI Prospects and Challenges



FABRIZIO LOMBARDI, Ph.D.
IEEE NTC PRESIDENT

DALMA NOVAK, Ph.D.
IEEE TAB DEI CHAIR

JENIFER CASTILLO R.
IEEE WIE CHAIR

KANIKA SINGH, Ph.D.
IEEE NTC WIN CHAIR

Virtual round table discussions

IEEE Nanotechnology Council : Women in Nanotechnology(WIN/WIE) committee DEI prospects and challenges.



EVENT DETAILS

DATE: 20 April 2022
Time: 11AM EST ~12.30PM EST
Register for free:
IEEE Nanotechnology Council:
<https://ieeenano.org/2022/ieee-ntc-win-virtual-round-table-dei-prospects-and-challenges#more-4339>

IEEE Nanotechnology Council Women in Nanotechnology (WIN) organized the virtual round table discussion on DEI prospects and challenges to explore the prospects with the Visionary leaders. Here are some key takeaways of the round table discussions:

- Focus on the multigenerational membership
- Understanding the impact of Unconscious Bias and breaking the bias
- Supporting gender identity and expression, going beyond gender balance
- Shifting from Diversity and Inclusion to Diversity, Equity, and Inclusion
- Diversity chair encompasses more than just gender balance
- Under-represented countries and provide funding for travel, race, age etc.
- Relationship between WIE and DEI
- Women in Nanotechnology Committee to establish an ad hoc DEI committee to encourage and promote the IEEE DEI vision and mission

[Learn More](#)

Meet the 2023 IEEE President-Elect Candidates Forum

Livestream by **IEEE.tv**

MEET THE
2023 IEEE President-Elect Candidates Forum
6:00 pm - 7:30 pm PT • Friday, 24 June 2022

Candidate position listing order was pre-determined by lottery and indicates no preference.



Thomas M. Coughlin
Nominated by
IEEE Board of Directors



Maike Luiken
Nominated by
IEEE Board of Directors



Kazuhiro Kosuge
Nominated by
Petition



Kathleen A. Kramer
Nominated by
IEEE Board of Directors

[Register Now](https://meet-the-candidates.ieee.org) meet-the-candidates.ieee.org

The IEEE Board of Directors has authorized a new Pilot Campaign Program that applies to IEEE President-Elect candidates for the 2022 and 2023 elections. As part of this pilot program, a "Meet the 2023 IEEE President-Elect Candidates Forum" will be held on Friday, 24 June 2022 from 6:00 pm to 7:30 pm PT. The event will be live streamed by IEEE.tv for IEEE members not attending the June Meeting Series and recorded for future viewing.

During the Forum, 2022 IEEE President & CEO K. J. Ray Liu will ask the candidates questions submitted by members on issues important to them and IEEE. This is an opportunity to hear from the 2023 IEEE President-Elect candidates and get informed ahead of the 2022 annual election.

To register for the livestream event and to receive the link to the event recording, visit meet-the-candidates.ieee.org.

AESS Technical Panels

AESS TECHNICAL OPERATIONS

Gyro and Accelerometer Panel's 60th Anniversary

Over two unassuming days in May 1962, a group of 32 inertial sensor producers and users met in Dayton, Ohio for the first Gyro and Accelerometer Panel meeting. The Panel was formed in response to an industry survey that inquired about company and government institution knowledge of the Aerospace Industries Association Gyro Project and solicited recommendations for future project activities and expansion. Over the Panel's 60-year history, 15 inertial sensor and system standards have been published. Just in time for the 60th anniversary, the Panel has published IEEE Std 1780 [2] for the specification of inertial measurement units (IMU). To begin the next 60 years of Panel contributions, the Panel has begun the processes required to develop a new systems-related standard.

[Learn More](#)

IEEE Std 1780-2022

IEEE Standard 1780 Standard for Specifying Inertial Measurement Units (IMUs)

The Gyro and Accelerometer Panel (GAP) of the IEEE Aerospace and Electronic Systems Society (AESS) have completed a significant milestone with the publication of IEEE Std 1780TM-2022, IEEE Standard for Specifying Inertial Measurement Units (IMUs). The IEEE standard was approved on 2 February 2022, by the IEEE Standards Association (SA) Standards Board and published on 22 April 2022. The standard was developed by a diverse team of industry and government experts, under the leadership of Randy Curey, GAP Chair, and Jason Bingham, Working Group Chair. Visit the website to continue reading.

[Learn More](#)

[Learn more about the Gyro and Accelerometer Panel and other AESS technical panels on our website.](#)

Education News

Invite a Distinguished Lecturer to Your Next Chapter Meeting!

All AESS Chapters and IEEE Sections are encouraged to take advantage of the AESS Distinguished Lecturer and Tutorial Program for their regular or special meetings, which allows them to select from an outstanding list of truly distinguished speakers who are experts in the technical fields of the Society. For more information, please see the [AESS website](#).

You can also watch the 2020 and 2021 Virtual Distinguished lectures on the [AESS website](#).

Conference News

AESS financially and technically sponsors and co-sponsors conferences addressing important aspects of our Field of Interest. The information below is current as of 1 June 2022. Please refer to each conference website for the most up-to-date information.

Call for Proposals for the 2025 IEEE Radar Conference

The Radar Systems Panel (RSP) of the IEEE Aerospace & Electronic Systems Society welcomes proposals from prospective organizers to host the 2025 IEEE Radar Conference. This conference series, originally initiated in 1984 as the US National Radar Conference, has grown to have an internationally diverse attendance and a reputation for the highest quality. *The written proposal is due by 31 July 2022. [More information here](#).*

RADAR Conference Events

The [2022 IEEE Radar Conference](#) was held in Times Square, New York City, USA from 21-25 March. Here are a few events that took place:

2022 IEEE RADAR Challenge at RadarConfâ€™™ 2022

The [Radar Challenge](#) was held during the 2022 IEEE Radar Conference in NYC, NY in March 2022. During this year's challenge, participants submitted their entries on new ideas (hardware or data processing related) for using radars towards real-world applications. We had 7 teams reach the final stage of the challenge held in person during the IEEE Radar Conference. I would like to congratulate all of the winners, listed below, as well as thank ECHODYNE, who sponsored the monetary prizes, and their conference representative, Tom Driscoll, who helped with the judging, and the members of the IEEE Radar Systems Panel Education Committee who also helped judge the submissions.

1st Place: Alexander Karlsson, Magnus Jansson, and Mikael Hamalainen - for the paper entitled *"Model-Aided Drone Classification Using Convolutional Neural Networks"*

2nd Place: Fangzhan Shi, Wenda Li, Amin Amiri, Shelly Vishwakarma, Chong Tang, Paul Brennan and Kevin Chetty - for the paper entitled *"Wi-Pi: A Low-Cost Doppler Radar Built Around Commercial Off-the-Shelf Wi-Fi Components"*

3rd Place: Shelly Vishwakarma, Wenda Li, Chong Tang, Fangzhan Shi, Ravi Adve and Kevin Chetty - for the paper entitled *"Attention Enhanced Alexnet for Learning Salient Features in Radar Micro-Doppler Signatures"*

Honorable Mention: Yazin Du, Bingliang Li, Jipeng Li, Francesco Fioranelli, Julien Le Kernec - for the paper entitled *"A ViT Approach for Short-Range Behaviour Recognition Using Radar Signals"*

Popular Vote: Fangzhan Shi, Wenda Li, Amin Amiri, Shelly Vishwakarma, Chong

2022 IEEE AESS Radar Summer School at RadarConfâ€™™ 2022

The 2022 IEEE AESS Radar Summer School took place in New York City the weekend before the technical program of the IEEE Radar Conference. The event was hybrid. There were 86 students who participated in the program (including 52 in-person students). Ten world-class professors covered a wide range of radar topics from basic notions to advanced applications. The program looked as follows and concluded with a hands-on radar demonstration where students built and used their own low-cost radar.

The Story of Radar - the Interwar Years	Greg Coxson
Introduction to radar systems	Justin Metcalf
Estimation and detection	Christ Richmond
Radar imaging	Armin Doerry
Target tracking	Jim Nesteroff
STAP	Bill Melvin
Meteorological radars	Pavlos Kollias
Digital array radar	Kenneth Oâ€™™Haver
Low-cost radar demonstrations	John Stralka & Frank Robey

2022 Young Professionals Reception at IEEE Radar Conference

The first YP event after two years pandemic took place as an open bar event at the Sheraton New York Times Square Hotel. New York City and Times Square â€™™ a vibrant, lively city and location â€™™ were the perfect location and background for the YP event.



Especially, as the YP event was organized as a physical meeting, students had a great chance to get to know each other and to socialize. Many experts, experienced engineers and world renown scientists attended the conference and the event. While the vibrant Times

Square could be observed from the event room, the students, enjoying the appetizers and drinks, socialized with each other and also with the lecturers in an open and friendly atmosphere, talked and discussed with them the latest advances in their fields of expertise, and made new contacts.

Overall, the event was very much appreciated and well-attended, which, after two years of Covid-19 pandemic, is a great and fantastic success.

The organizers would like to thank the AESS and IEEE YP for funding and making the event possible, and finally, Lorenzo Lo Monte deserves credit and many thanks for the support and help during the conference and event organization!

Call for Tutorials: 2023 IEEE Radar Conference

The [2023 IEEE Radar Conference](#) will be held 28 April – 5 May 2023, at the River Walk in San Antonio, Texas for the first time, jointly sponsored by the Aerospace & Electronic Systems Society (AESS) and the IEEE Lone Star Section, with significant support from the Southwest Research Institute (SwRI) and Army Futures Command (AFC). The 2023 conference will celebrate a Fiesta of Radar Innovations involving the latest radar technologies through plenary talks, special sessions, tutorials, and the radar summer school. Tutorial submissions are due 30 October 2022.

[Call for Tutorials](#)

Flagship Conferences



2022 IEEE Metrology for AeroSpace

Pisa, Italy
27-29 June 2022

[Register](#)



2022 25th International Conference on Information Fusion

Linköping, Sweden
4-7 July 2022

[Register](#)



2022 IEEE AUTOTESTCON

National Harbor, MD, USA
29 August – 1 September 2022

[Register](#)



DASC 2022

Portsmouth, VA, USA
18-22 September 2022

[Register](#)



RadarConf'23

San Antonio, TX, USA
28 April – 5 May 2023

[Call for Papers](#)

[Call for Tutorials](#)

Technically Co-Sponsored Conference Listing:

[International Radar Symposium \(IRS 2022\)](#)

Gdańsk, Poland | 12-14 September 2022

[IEEE International Symposium on Phased Array Systems and Technology \(PAST 2022\)](#)

Waltham, Massachusetts, USA | 11-14 October 2022

[Sensor Data Fusion: Trends, Solutions, Applications \(SDF 2022\)](#)

Bonn, Germany | 11-14 October 2022

[9th International SpaceWire and SpaceFibre Conference \(ISC 2022\)](#)

Pisa, Italy | 17-19 October 2022

[International Radar Conference \(RADAR 2022\)](#)

Edinburgh, Scotland | 25-27 October 2022

2022 9th International Workshop on Tracking, Telemetry and Command Systems for Space Applications (TTC 2022)

Noordwijk, Netherlands | 28 November - 1 December 2022

2023 IEEE Radio and Wireless Symposium (RWS 2023)

Las Vegas, NV, USA | 22-25 January 2023

2023 IEEE/ION Position, Location and Navigation Symposium (PLANS 2023)

Monterey, CA, USA | 24-27 April 2023

Do you have a conference you'd like advertised in the AESS Quarterly Email Blast? Contact [Amanda Osborn](#) for details on how to have it included.

[View Full List of AESS Conferences](#)

AESS Officers

Board of Governors -- Members-at-Large

AESS YP & Student Representatives

Publications

NEW! IEEE Open Journal of Systems Engineering (OJSE)



IEEE Aerospace and Electronic Systems Society, IEEE Systems, Man, and Cybernetics Society, and IEEE Systems Council are jointly sponsoring the new *IEEE Open Journal of Systems Engineering (OJSE)* that is an open access technical journal devoted to the multidisciplinary aspects of systems engineering. Systems engineering involves elements of model-based systems engineering; digital thread; requirements generation, flowdown, tracking, needs analysis, and validation/verification; integration and test; and full life cycle support of the target system. The V model illustrates this systems engineering process. OJSE deals primarily with the science, methodology, and tools of systems engineering, rather than the results of the application of systems engineering that is the focus of other IEEE journals.

[Learn More](#)

Special Issue on "Front-end Need Analysis"

This special issue seeks papers that contribute to establishing references that formalize the activities, concepts, and techniques around front-end need analysis, sharing good examples of their use, addressing the gaps in need analysis approaches, and providing a vision for their evolution in the context of model-based and digital environments.

Paper submissions are due on 15 July 2022.

[Call for Papers](#)

Special Issue on "Artificial Intelligence and Systems Engineering"

This special issue seeks original papers that address the challenges in realizing SE4AI and AI4SE. Topics under consideration include: life-cycle ready AI; hybrid human/AI systems; cognitive bias in AI systems; systems approaches to AI architecting; systems theory and AI; multi-modal AI; security in AI; adversarial machine learning; trustworthy AI; AI resilience; AI risk analysis; test & evaluation of learning-based systems; automated model-building and simulation; anticipatory design; automation of digital twins; AI-enabled evidence building; AI/SE Workforce Development; and model curation.

Paper submissions are due on 1 September 2022.

[Call for Papers](#)

Journal of Lightwave Technology Call for Papers

Announcing a Special Issue of the IEEE/Optica Publishing Group Journal of Lightwave Technology on: ***Guided Lightwaves for Sensors & Measurement Systems: Advanced Techniques and Applications***. This special issue is organized by the IEEE Instrumentation and Measurement Society. It will be the fourth special issue on the same topic following the previous three successful ones (2017, 2019 and 2021). It aims to highlight the advancement of guided lightwaves in applications to sensors, instrumentation and measurement.

Paper submissions are due on 16 October 2022.

[Call for Papers](#)

IEEE Aerospace and Electronic Systems Magazine

The *IEEE Aerospace and Electronic Systems Magazine* is a monthly magazine

[Recent Issues](#)

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. [Call for Papers and Special issues, author information, and more can be found on our website.](#)

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.

Upcoming Special Sections in the *IEEE Transactions on Aerospace and Electronic Systems*:

[Special Section on Machine Learning Methods for Aerial and Space Positioning and Navigation](#) -

Submissions window: 1 July – August 2022

[Special Section in Deep Learning for Radar Applications](#) -

Submissions window: 1 August 2022 – 1 September 2022

[Special Section on Automotive Imaging and Super-Resolution Radar Systems](#) -

Submissions window: 1 October 2022 – 1 November 2022

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[March 2022](#)

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Recent Issues

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AESS Suggestions Welcome

We welcome suggestions from members on how the AESS can improve.

[Laila Moreira](#), 2022 VP Member Services

[Amanda Osborn](#), AESS Operations Manager

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