



# IEEE Aerospace Electronic Systems VP - Publications

*Lance Kaplan*

*2022 AESS Spring Board of Governors Meeting*

*25-26 March 2022*

*New York, New York, USA*

- Lance Kaplan
- Dale Blair
- Mike Cardinale
- Fabiola Colone
- Stefano Coraluppi
- Sabrina Greco
- Roberto Sabatini
- Luke Rosenberg
- Peter Willett

- Status
  - Transactions
  - Magazine
  - QEB
- Ongoing Activities
- New Journals

# Status of T-AES



Michael Rice, EIC

Gokhan Inalhan, Associate EIC

Lyudmila Mihaylova, Associate EIC

## TAES EiC



**Michael Rice**

Brigham Young University

📍 Region 6 (Western U.S.)

✉ Email

## TAES Associate EiC 2022



**Lyudmila Mihaylova**

University of Sheffield

📍 Region 8 (Africa, Europe, Middle East)

✉ Email

## 2022



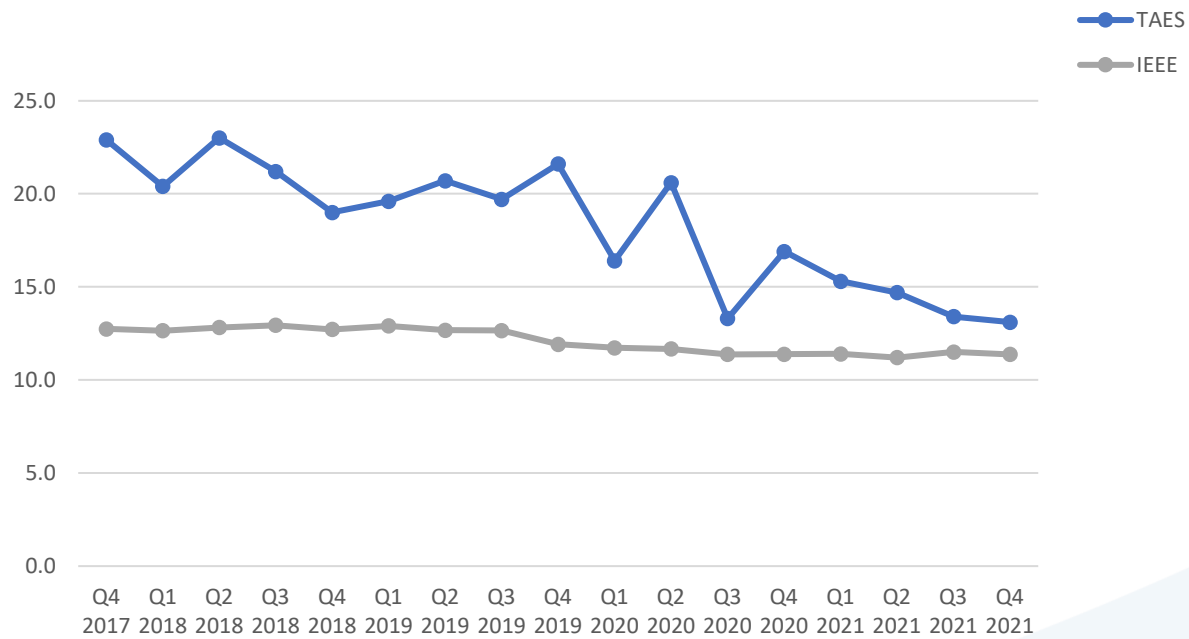
**Gökhan Inalhan**

Cranfield University

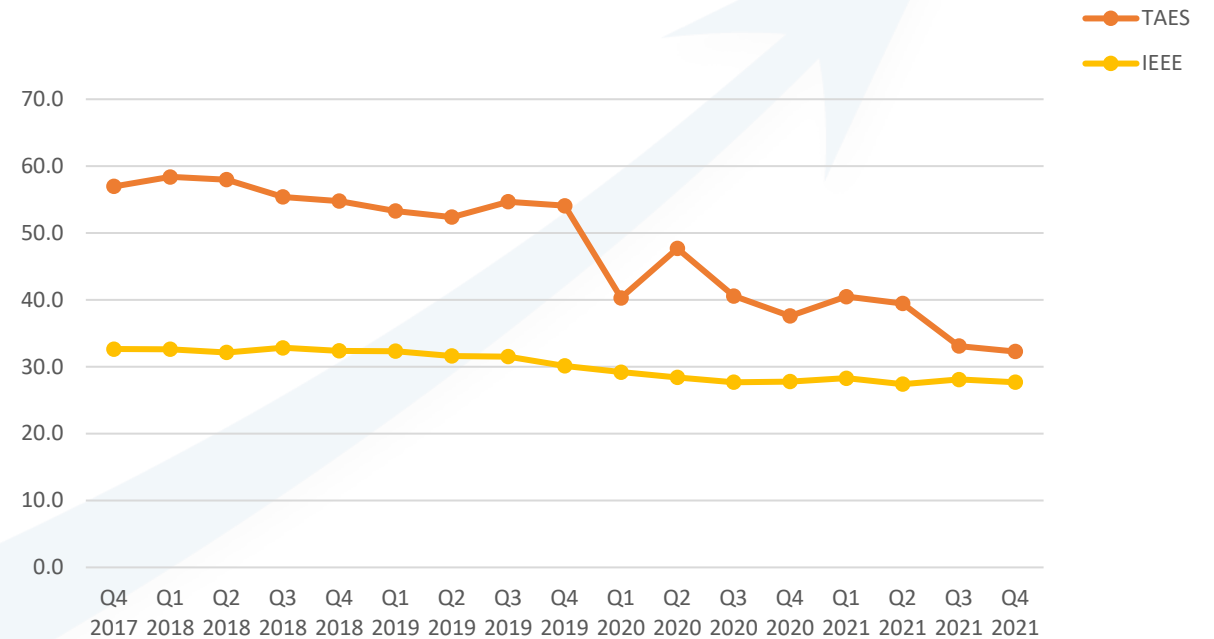
📍 Region 8 (Africa, Europe, Middle East)

✉ Email

### Average Number of Weeks to First Decision



### Average Number of Weeks to Online Post



- Senior Editors
  - Shannon Blunt (R5), Radar (replaced Pierfrancesco Lombardo)
  - Giancarmine Fasano (R8), Avionics (replaced Roberto Sabatini)
  - Timothy O'Connell (R4), Energy Conversion (replaced Mummadi Veerachary)
  - Tanya Vladimirova (R8), Space (replaced Maruthi Akella)
- Note: all four SEs were replaced by term limits. This is the second round of term-limit replacements at the SE level.
- Associate Editors
  - Akram Al-Hourani (R10), Communication Systems and Networking
  - Wayne Weaver (R4), Energy Conversion Systems
  - Ryan Weisman (R3), Space Systems
  - Gang Zhang (R10), Space Systems
  - Manon Kok (R8), Target Tracking
  - Wang Gang (R10), Target Tracking
  - Sevgi Gürbüz (R3), Radar Systems

- Criteria
  - Good feedback to authors for Reject, Major Revision, Minor Revision decisions.
  - Timely processing: <70 days for each decision.
  - More than six assignments met the first two criteria
  - Selected by EiC and AEiCs
- Recognition
  - AESS-branded gift (coffee mug)
  - Certificate
  - Appreciate Letter for EiC
- Special thank you to Amanda for collecting addresses and shipping all this stuff!




- Jihwan Choi (Communications)
- Marina Gashinova (Radar Systems)
- Chen-Fen Huang (Signal Processing)
  - AE for the second paper submitted to S1/M to be accepted!
- Gokhan Inalhan (Autonomous Systems)
- Andrea L'Afflito (Autonomous Systems)
- Junfeng Li (Guidance and Control)
  - AE for the first paper submitted to S1/M to be accepted!
- Athanassios Manikas (Signal Processing)
- Rick Meyer (Energy Conversion)
- Kumar Vijay Mishra (Radar Systems)
- Hyo-Sang Shin (Autonomous Systems)
- Yuri Shtessel (Guidance and Control)
- Hao Xu (Intelligent Systems)

- Current Special Sections (currently reviewing papers)
  - Information and Communication Technologies (ICT) for a New Space Vision
    - Guest Editors: Claudio Sacchi, Fabrizio Granelli, Mario Marchese, Kar-Ming Cheung, Mike Noble
  - Industrial Information Integration in Space Applications
    - Guest Editors: Andrew Ip, Zhuming Bi, Madjid Ravana, Brij Gupta, Khanh Pham
- Future Special Sections (approved, submission window in the future)
  - Deep Learning for Radar Applications
    - Guest Editors: Sevgi Gurbuz, Igal Bilik, Luke Rosenberg
  - Automotive Imaging and Super-Resolution Radar Systems
    - Guest Editors: Igal Bilik, Joseph Tabrikian, Fulvio Gini
- Promising Special Section Proposal Currently in Review
  - Data-driven AI Techniques for Positioning and Navigation in Demanding Environments
    - Guest Editors: Keegen Yu, Michael Braasch, Pau Closas, Jindrich Dunik, Fabio Dovis

# Record Number of Submissions

reports01.manuscriptcentral.com/cognos10/cgi-bin/cognos.cgi

SCHOLARONE™ REPORTS  Michael Rice (616757228) Log Off About

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## Manuscripts Received for IEEE Transactions on Aerospace and Electronic Systems

Estimated Data Date: Mar 16, 2022 4:02:02 PM

Information based on all manuscripts whose submission date is On or before Dec 31, 2021

Manuscript Type	Original	Revised	Total
Correspondence Item	74	23	97
Letter	35	0	35
Regular Paper	853	260	1113
Special Section on Industrial Information Integration in Space Applications	26	0	26
Special Section on Information and Communication Technologies (ICT) for a New Space Vision	16	0	16
<b>Total</b>	<b>1004</b>	<b>283</b>	<b>1287</b>

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Month	Original	Revised	Total
March 2021	83	0	83
April 2021	80	0	80
May 2021	93	3	96
June 2021	116	9	125
July 2021	108	31	139
August 2021	101	33	134
September 2021	97	49	146
October 2021	85	38	123
November 2021	120	63	183
December 2021	121	57	178
Total	1004	283	1287

A record number of new submissions to TAES in a calendar year. Remarkably, this counts only submissions to ScholarOne Manuscripts which went online on 1 March 2021.

Submissions 1 March 2021 – 31 December 2021

Author Country/Region	Original	Revised	Total
Algeria	1	0	1
Australia	15	3	18
Belgium	1	0	1
Bosnia and Herzegovina	1	0	1
Brazil	9	2	11
Canada	19	9	28
China	555	167	722
Cyprus	1	1	2
Czech Republic	1	1	2
Denmark	2	1	3
Egypt	1	0	1
Finland	4	1	5
France	19	2	21
Germany	9	4	13
Ghana	1	0	1
Greece	3	1	4
Hong Kong	10	1	11
India	47	4	51
Iran (the Islamic Republic of)	25	4	29
Ireland	1	0	1
Israel	4	2	6
Italy	32	10	42
Japan	8	1	9
Korea (the Democratic People's Republic of)	1	0	1
Korea (the Republic of)	42	8	50
Luxembourg	3	0	3

Malaysia	2	0	2
Mexico	4	1	5
Morocco	1	0	1
Netherlands	4	1	5
New Zealand	1	0	1
Nigeria	1	0	1
Norway	3	2	5
Pakistan	3	0	3
Peru	1	1	2
Poland	2	0	2
Portugal	2	0	2
Russian Federation	5	0	5
Saudi Arabia	5	0	5
Serbia	1	1	2
Singapore	3	1	4
South Africa	2	2	4
Spain	5	2	7
Sweden	6	2	8
Taiwan	7	1	8
Thailand	1	1	2
Tunisia	1	0	1
Turkey	20	3	23
United Kingdom of Great Britain and Northern Ireland	20	6	26
United States	88	36	124
Viet Nam	1	1	2
Summary	1004	283	1287

# “Quality” of the Submissions

Decisions through 31 December 2021

Country/Region	Accept	Reject	Total	Accept Ratio
<a href="#">Algeria</a>	0	1	1	0.00%
<a href="#">Australia</a>	3	4	7	42.86%
<a href="#">Belgium</a>	0	1	1	0.00%
<a href="#">Bosnia and Herzegovina</a>	0	1	1	0.00%
<a href="#">Brazil</a>	0	5	5	0.00%
<a href="#">Canada</a>	1	8	9	11.11%
<a href="#">China</a>	64	223	287	22.30%
<a href="#">Denmark</a>	0	1	1	0.00%
<a href="#">Finland</a>	1	1	2	50.00%
<a href="#">France</a>	1	11	12	8.33%
<a href="#">Germany</a>	4	1	5	80.00%
<a href="#">Ghana</a>	0	1	1	0.00%
<a href="#">Greece</a>	1	1	2	50.00%
<a href="#">Hong Kong</a>	0	7	7	0.00%
<a href="#">India</a>	0	39	39	0.00%
<a href="#">Iran (the Islamic Republic of)</a>	1	15	16	6.25%
<a href="#">Israel</a>	1	1	2	50.00%
<a href="#">Italy</a>	5	7	12	41.67%
<a href="#">Japan</a>	1	6	7	14.29%
<a href="#">Korea (the Democratic People's Republic of)</a>	0	1	1	0.00%

Country/Region	Accept	Reject	Total	Accept Ratio
<a href="#">Korea (the Republic of)</a>	5	20	25	20.00%
<a href="#">Luxembourg</a>	0	2	2	0.00%
<a href="#">Malaysia</a>	0	2	2	0.00%
<a href="#">Mexico</a>	0	3	3	0.00%
<a href="#">Morocco</a>	0	1	1	0.00%
<a href="#">Netherlands</a>	0	1	1	0.00%
<a href="#">New Zealand</a>	0	1	1	0.00%
<a href="#">Nigeria</a>	0	1	1	0.00%
<a href="#">Norway</a>	0	2	2	0.00%
<a href="#">Pakistan</a>	0	3	3	0.00%
<a href="#">Peru</a>	1	0	1	100.00%
<a href="#">Poland</a>	0	2	2	0.00%
<a href="#">Portugal</a>	0	2	2	0.00%
<a href="#">Russian Federation</a>	0	1	1	0.00%
<a href="#">Saudi Arabia</a>	0	3	3	0.00%
<a href="#">Serbia</a>	1	0	1	100.00%
<a href="#">South Africa</a>	1	0	1	100.00%
<a href="#">Spain</a>	1	2	3	33.33%
<a href="#">Taiwan</a>	0	4	4	0.00%
<a href="#">Thailand</a>	0	1	1	0.00%

Country/Region	Accept	Reject	Total	Accept Ratio
<a href="#">Tunisia</a>	0	1	1	0.00%
<a href="#">Turkey</a>	0	10	10	0.00%
<a href="#">United Kingdom of Great Britain and Northern Ireland</a>	4	6	10	40.00%
<a href="#">United States</a>	16	26	42	38.10%
<a href="#">Viet Nam</a>	0	1	1	0.00%
<b>Total</b>	<b>112</b>	<b>430</b>	<b>542</b>	<b>20.66%</b>

# “Quality” of the Submissions

## Decisions through 17 March 2022

Country/Region	Accept	Reject	Total	Accept Ratio
<a href="#">Algeria</a>	0	1	1	0.00%
<a href="#">Australia</a>	4	9	13	30.77%
<a href="#">Bangladesh</a>	0	1	1	0.00%
<a href="#">Belgium</a>	0	1	1	0.00%
<a href="#">Bosnia and Herzegovina</a>	0	1	1	0.00%
<a href="#">Brazil</a>	1	6	7	14.29%
<a href="#">Canada</a>	5	9	14	35.71%
<a href="#">China</a>	115	348	463	24.84%
<a href="#">Cyprus</a>	0	1	1	0.00%
<a href="#">Denmark</a>	0	1	1	0.00%
<a href="#">Egypt</a>	0	1	1	0.00%
<a href="#">Finland</a>	1	2	3	33.33%
<a href="#">France</a>	1	12	13	7.69%
<a href="#">Germany</a>	4	2	6	66.67%
<a href="#">Ghana</a>	0	1	1	0.00%
<a href="#">Greece</a>	1	1	2	50.00%
<a href="#">Hong Kong</a>	1	8	9	11.11%
<a href="#">India</a>	3	42	45	6.67%
<a href="#">Iran (the Islamic Republic of)</a>	3	22	25	12.00%
<a href="#">Israel</a>	1	1	2	50.00%

Country/Region	Accept	Reject	Total	Accept Ratio
<a href="#">Italy</a>	7	8	15	46.67%
<a href="#">Japan</a>	2	7	9	22.22%
<a href="#">Korea (the Democratic People's Republic of)</a>	0	1	1	0.00%
<a href="#">Korea (the Republic of)</a>	9	26	35	25.71%
<a href="#">Luxembourg</a>	0	2	2	0.00%
<a href="#">Malaysia</a>	0	2	2	0.00%
<a href="#">Mexico</a>	1	4	5	20.00%
<a href="#">Morocco</a>	0	1	1	0.00%
<a href="#">Netherlands</a>	0	2	2	0.00%
<a href="#">New Zealand</a>	0	1	1	0.00%
<a href="#">Nigeria</a>	0	1	1	0.00%
<a href="#">Norway</a>	1	2	3	33.33%
<a href="#">Pakistan</a>	0	3	3	0.00%
<a href="#">Peru</a>	1	0	1	100.00%
<a href="#">Poland</a>	0	4	4	0.00%
<a href="#">Portugal</a>	0	2	2	0.00%
<a href="#">Russian Federation</a>	0	4	4	0.00%
<a href="#">Saudi Arabia</a>	0	4	4	0.00%
<a href="#">Serbia</a>	1	0	1	100.00%
<a href="#">Singapore</a>	1	4	5	20.00%

Country/Region	Accept	Reject	Total	Accept Ratio
<a href="#">South Africa</a>	1	0	1	100.00%
<a href="#">Spain</a>	2	4	6	33.33%
<a href="#">Sweden</a>	3	0	3	100.00%
<a href="#">Taiwan</a>	2	5	7	28.57%
<a href="#">Thailand</a>	0	1	1	0.00%
<a href="#">Tunisia</a>	0	2	2	0.00%
<a href="#">Turkey</a>	1	14	15	6.67%
<a href="#">United Kingdom of Great Britain and Northern Ireland</a>	7	11	18	38.89%
<a href="#">United States</a>	31	36	67	46.27%
<a href="#">Viet Nam</a>	0	1	1	0.00%
<b>Total</b>	<b>210</b>	<b>622</b>	<b>832</b>	<b>25.24%</b>

# Status AES Magazine



Daniel O'Hagan, EIC

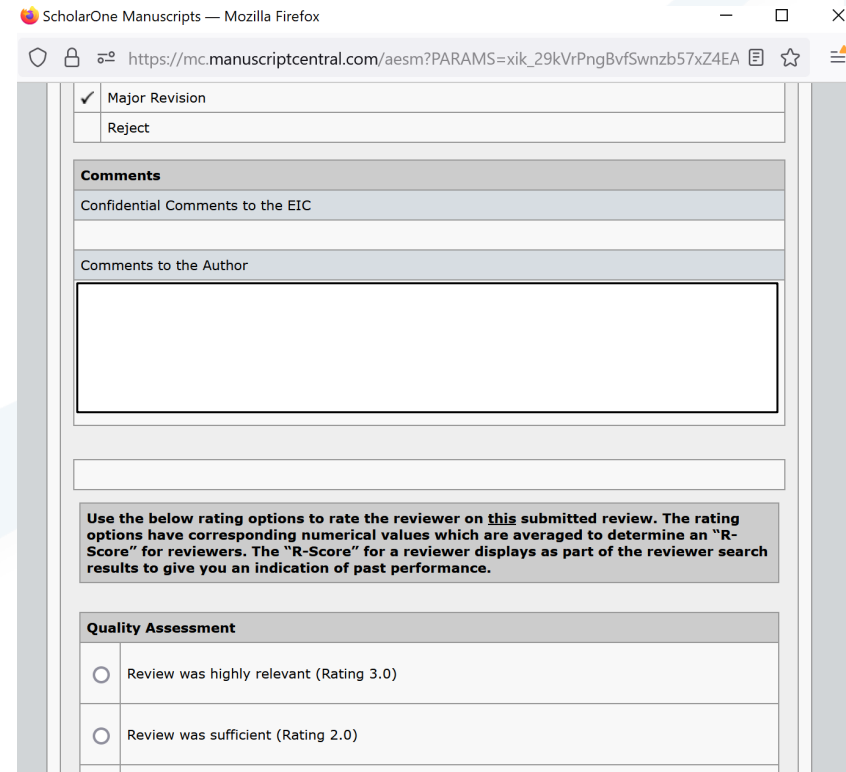
Associate EIC - Vacant

Dale Blair, AE for Tutorials

- Scott Bawden (Energy Conversion Systems)
- W. Dale Blair (Tutorials)
- Erik Blasch (Aeronautics and Astronautics)
- Stefan Brueggewirth (Applications of Artificial Intelligence and Machine Learning to Aerospace Systems)
- Michael Cardinale (EO/IR Systems and Image Processing)
- Mauro De Sanctis (Signal Processing and Communication in Aerospace Systems)
- Dietrich Fraenken (Fusion & Signal Processing)
- Giancarmine Fasano (Unmanned Aircraft Systems)
- Jason Gross (Navigation, Positioning)
- Richard Linares (Space Systems – has left – recruit new AE for Space Systems)
- Federico Lombardi (Student Highlights)
- Daniel O'Hagan (EiC and AE for Radar Systems)
- Roberto Sabatini (Avionics)
- Samuel Shapero (Book Reviews)
- Ruhai Wang (Systems Engineering)
- Marco Frasca (Quantum Technologies in Aerospace Systems)
- Christof Schuepbach (Radar Systems)



- Avoid appointing two or three reviewers from the same organization
  - Obviously, some organisations are very large with multiple sites meaning that “discussions” between colleagues about their review is very remote
  - AEs to exercise discretion
- AEs, when making a decision, please provide **actionable information** to the EiC
  - This should be an appraisal of the review comments
  - Your impressions of the paper – as an AE you are a domain expert
  - Rate the reviewers
- Track progress of papers and nudge AEs to move the reviews along



ScholarOne Manuscripts — Mozilla Firefox

https://mc.manuscriptcentral.com/aesm?PARAMS=xik\_29kVrPngBvfSwznzb57xZ4EA

☒ Major Revision  
☐ Reject

**Comments**

Confidential Comments to the EiC

Comments to the Author

Use the below rating options to rate the reviewer on this submitted review. The rating options have corresponding numerical values which are averaged to determine an “R-Score” for reviewers. The “R-Score” for a reviewer displays as part of the reviewer search results to give you an indication of past performance.

**Quality Assessment**

☐ Review was highly relevant (Rating 3.0)

☐ Review was sufficient (Rating 2.0)

- Urban Air Mobility and UAS Airspace Integration: Vision, Challenges, and Enabling Avionics Technologies (Fasano, Crespillo, Sabatini, Roy, Ogan)
- Special Issue on Avionics Systems: Future Challenges (Sabatini, Kramer, Roy, Blasch, Fasano)
- Special Issue on Systems and Solutions for Arctic Challenges (Reese, McGee, Eicken, Mahoney, Bawden)
- Special Issue on Space Domain Systems (Blasch, Linares, Jah)
- Special Issue on Multi-Platform and Multi-Functional RF Systems (MPRFS) and (MFRFS) (O'Hagan, Joe Fabrizio, Michael Brandfaß, Josef Worms and Piotr Samczynski) **To be Published in April 2022**
- Special Issue on Current Applications and Innovations of Artificial Intelligence and Machine Learning in Aerospace (Chang, Mohammed, Ramos, Kim)
- 50<sup>th</sup> Anniversary of IEEE AEISS (Griffiths, Farina and Koch) – **Early 2023**

## ■ Under Review:

- “A review of Radar Detection Fundamentals” [Diao]
- “A Review of the Tailsitter UAV: Configurations and Control Algorithms” [Ghanifar]
- “Development of Relative Degree Based Aerospace Sliding Mode Control MATLAB Toolbox with Cases Study” [Kode]

## ■ Accepted:

- Survey of X-Ray Pulsar Based Navigation Technology [Lohan & Putnam]
- Monocular visual autonomous landing system for quadcopter drones using software in the loop [Saavedra-Ruiz et al.]
- Detecting a target with quantum entanglement [Sorelli et al.]
- A Rationale for Backprojection in Spotlight Synthetic Aperture Radar Image Formation [Bauck]
- A Survey on the Applications of Convolutional Neural Networks for Synthetic Aperture Radar: Recent Advances [Oveis & Guisti]

Tutorial Issue will be published probably in May/June

- Richard Linares AES Magazine Associate Editor for Space Systems is stepping down as AE
  - We need a new AE for Space Systems
  - Erik Blasch will think about possible candidates
  - We will put a recruitment notice in the May issue
  
- Some AEs have a heavy paper-load – consider recruiting new/supporting AEs in certain areas, e.g., Radar
  
- We will put a reviewer-recruitment ad in the May issue

# Quarterly Email Blast



Philipp Markiton, EIC  
Francesca Filippini, EIC

1. New inspiring article for the section entitled "**The story behind a success**": recipient of the Robert T. Hill Best Dissertation Award
2. New interesting article for the section entitled "**The History Column**": The Yagi-Antenna
3. Highlights from **AESS BoG**:
  1. Message from the President
  2. Officer's meetings in Pisa
  3. Presentation of Board of Governors Class 2022-2024
4. AESS members recognition:
  1. Awards & Fellowships
5. **Announcement of Logo contest**
6. AESS Chapter news

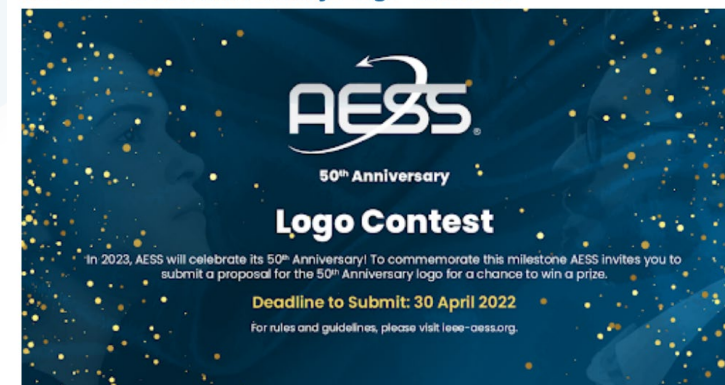


AESS Board of Governors Class of 2022-2024

We would like to congratulate and welcome the following AESS members who were nominated and appointed to serve on the AESS Board of Governors for the 2022-2024 term.  received the 2021 Robert T. Hill Award for Best Dissertation.



AESS's 50th Anniversary Logo Contest



- Possible ideas to be developed:
  - Modify the **layout** of the QEB to make it more readable than as it is now within the body of the email.
  - Include more non-radar awardees in “Story behind a success” section, e.g.:
    - Student paper competition at Aerospace conference
    - Early Career Award
  - Include contents for **Industry** (maybe a new column?)
  - Review content:
    - Based on: Number of clicks / opened links
    - Potentially reduce or improve to generate more interest and awareness

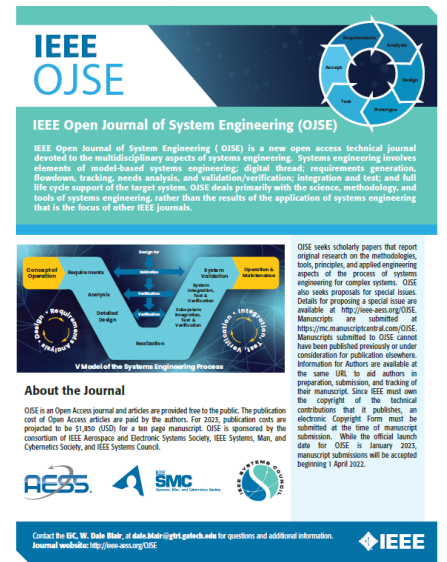
General Business





- Sunsetting of EJPress Portal
- Operations Manual for TAES and AESM
- Coordination with technical panels for special section topics
- Active engagement with our editors to improve operations
- Recognize outstanding reviewers, editors and papers
- Tracking Open Access and other trends
- Support Integrated Sensing + Comms initiative

- Transactions on Radar Systems
  - Phase I **passed** in February
  - AEISS (24%), MTT (24%), SPS (17%), GRSS (7%), SenC (7%), APS (7%), VTS (7%), IMS (7%)
- Open Access Journal on Systems Engineering
  - Phase II **passed** in November
  - Dale Blair is the first EiC
  - SysC (40%), SMCS (40%), AEISS (20%)



Thank You!