



IEEE AESS BOG  
NOMINATIONS  
Term: 2025 - 2027



## 2025-2027 AESS BoG Candidates

Jenifer Castillo  
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Fulvio Gini  
Elisa Giusti  
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Lorenzo Lo Monte  
Philipp Markiton  
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Giovanna Ramirez Ruiz  
Matthew Ritchie  
Avid Roman-Gonzalez  
Vincent Socci  
Peter Willett



## **Jenifer Castillo**

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Region 9 (Latin America)

### **Statement**

Although Jenifer has recently joined the Aviation industry, her passion for Aerospace and for IEEE is strong. She understands IEEE, its governance and structure, she knows how to navigate them, and understand our priority is to serve our members.

Jenifer has a unique perspective to represent our global membership, not only due to her experience in IEEE, but her long career in industry is key for the strengthening of AESS' initiatives in this area, and her experience in WIE, which I witnessed first hand, will also be a key factor for our growth.

In addition, Jenifer is also contributing to IEEE's strategic plan development for 2025-2030. Her experience in this area will help AESS to align with it, grow and benefit our current and future members in the years to come.

Although Jenifer is part of the BoD, she manages her time well, and fulfills consistently her current commitments. As much as possible, she will be able to attend the meetings.

### **Bio**

Mechatronics Engineer, graduated from San Buenaventura University in Bogota Colombia. MBA – International Enterprises from the Polytechnic University of Puerto Rico. Currently, Jenifer is Sales and Key Account Manager with Lufthansa Technik, the world's leading provider of maintenance, repair and overhaul services and modifications in the aviation industry. In this position, She leads sales projects including contract negotiations and execution. She also manages the accounts, considering not only the different customer's needs and requirements, but prioritizing the safety that our industry requires.

Previously, In 2014 Jenifer joined Parker Hannifin Corp., as the Territory Manager of the Caribbean, and then as Project Specifications Manager up to 2023 covering Latin America for the Instrumentation Group. Her professional experience begun in 2007.

IEEE Senior member and HKN, being part of IEEE as member and volunteer for 20 years. Currently is Region 9 Director 2024-2025 and member os IEEE BoD, IEEE WIE Committee Chair 2021-2022, and the Puerto Rico and Caribbean (PR&C) Past Chair. Previously, Industry Engagement Committee Member (2021-2022), Region 9 Secretary (2019-2020), Industry

Engagement AdHoc Committee Chair (2018), WIE Member at Large (2019-2020), among many other positions.

Recognized with the IEEE MGA Achievement Award 2020, “For sustained and outstanding achievements in promoting Students, YP, and WIE membership development in Latin America and the Caribbean”, and the Oscar C. Fernández, IEEE Region 9 recognition to the outstanding volunteer in Latin America.

She is deeply involved in the international scientific community to support, promote, and organize new and existing activities, in particular to increase participation of young scientists and women in the community. She is a senior IEEE member, member of the IEEE AESS Radar System Panel since 2017 and chair of the panel for the term 2023-2024. She is a member of the European Microwave Association (EuMA) and its Innovation Team, which helps young graduate students get familiar with the microwave community. Within this initiative, she supervises master and PhD students that intern at TNO. She is national representative in the NATO’s Sensors and Electronics Technology (SET) Panel, and co-coordinator of the RF focus group. She initiated and chaired several activities in the panel, including the “Woman in SET” working group. Her significant contributions to the SET Panel were recognized with the NATO SET Early Career Award in 2018, the SET Panel Excellence Award in 2019, and the NATO Scientific Excellence Award in 2022. She is governmental expert for The Netherlands in the European Defense Agency Radar Captech. She collaborates with Dutch universities by defining graduate research topics and jointly supervising Master and PhD students. She has written numerous highly cited journal and conference papers. She is a reviewer for several journals and was an Associate Editor for IEEE Sensor Journal (2018-2019). She serves on several technical program committees and student competition committees at international conferences (IEEE (International) Radar Conferences, CoSeRA Workshops, SSPD, European Microwave Week, IRS).



## **Stefano Coraluppi**

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Region 1 (Northeastern US)

### **Statement**

Throughout my career, IEEE has been my professional home. Engineers and scientists must recognize the value of professional societies, and IEEE is particularly noteworthy as the world's largest technical society. Here are specific areas of interest to me where I wish to provide leadership on the Board of Governors.

1. Organizing panel discussions to discuss challenges associated with careers in industry.
2. Continuing efforts to bring AESS and ISIF closer together. There is significant overlap in these communities, and I will facilitate discussions on strategies for closer collaboration.
3. Expanding collaborative initiatives across IEEE Societies, with a focus on the needs of members in Industry.
4. Extending AESS participation in the IEEE Standards Association (SA) efforts in responsible use of AI. Given the significant defense and industry footprint of AESS, our presence in these discussions is important and will be of interest to our industry members.

### **Bio**

Stefano Coraluppi is a Chief Scientist at Systems & Technology Research (STR). He received the BS degree in Electrical Engineering and Mathematics from Carnegie Mellon University in 1990, and MS and PhD degrees in Electrical Engineering from the University of Maryland in 1992 and 1997. He has held research staff positions at ALPHATECH Inc. (1997-2002), the NATO Undersea Research Centre (2002-2010), Compunetix Inc. (2010-2014), and STR (since 2014). His research interests include multi-target tracking, multi-sensor data fusion, distributed detection and estimation, nonlinear filtering, and stochastic control.

Dr. Coraluppi previously served on the IEEE AESS Board of Governors (2018-2023) and continues to serve on the ISIF Board of Directors (since 2007). In 2024, he is IEEE AESS VP Industry Relations. He is a Fellow of IEEE and an AESS Distinguished Lecturer. He also lectures regularly for the NATO Science and Technology Organization.

Dr. Coraluppi served as General Co-Chair (with Peter Willett) for the ISIF/IEEE 9th International Conference on Information Fusion (FUSION) in Florence, Italy in 2006, and is General Co-Chair

(with Lauro Snidaro) for the 27th FUSION conference, to be held in July 2024 in Venice, Italy. He has served as Editor-in-Chief for the ISIF Journal of Advances in Information Fusion and as Associate Editor-in-Chief for the IEEE Transactions on Aerospace and Electronic Systems.



## **Fulvio Gini**

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Region 8 (Africa, Europe, Middle East)

### **Statement**

I am member of the AESS since 1992. I submitted my first paper to the T-AES in 1993. Since then, I have built most of my career within the AESS. I published most of my papers in AESS journals, most of my conference papers in Radar conferences (co-)sponsored by AESS. I received various important awards from AESS and I become IEEE Fellow through AESS. I organized two times the IEEE Radar Conference in Italy, in Rome (2008, as Technical Program co-Chair), and in Florence (2020, as General co-Chair). I have been AESS BoG member (2017-2019) and I have been the AESS Awards chair (2019-2023). For all these reasons, I feel deeply in debt with the AESS and I would like to continue to serve it at the highest level. Having been deeply involved in the IEEE SP and EURASIP societies covering various roles, I think I could bring some new ideas about different aspect of the management of the AESS, in terms of setting new rules for conference organization, journal management and awards selection processes.

### **Bio**

Fulvio Gini (Fellow IEEE) received the Doctor Engineer (cum laude) in Electronic Engineering and the PhD in Telecommunication Engineering from the University of Pisa (Italy), in 1990 and 1995, respectively. In 1993, he joined the University of Pisa, where he is Full Professor since 2006. He is an Associate Editor for the IEEE Transactions on AES (2007-present), Elsevier Signal Processing journal (2006-present), IEEE Transactions on SP (2000–2006), EURASIP JASP (2003-2009). He was the Area Editor for the Special issues of the IEEE Signal Processing Magazine (2012-14). He was co-recipient of the 2001 and 2012 IEEE AES Society's Barry Carlton Award for Best Paper published in the IEEE Transactions on AES and of the 2020 EURASIP JASP Best Paper Award. He was recipient of the 2022 IEEE AESS Warren White Award for Excellence in Radar Engineering, 2003 IEEE AESS Nathanson Award, 2003 IEE Achievement Award, EURASIP Meritorious Service Award. He has been Vice-Chair of the AESS Fellows Evaluation Committee for 2021, 2022 and 2023. He has been Member of the IEEE TAB Awards and Recognition Committee (TABARC) in 2020-2022. He has been member of the IEEE AESS Board of Governors (BoG) (2017-19), IEEE SPS BoG (2021-2023), SPS Awards Board (2016-2018), AESS Awards chair (2019-2023). He is Member of the Radar System Panel. He was a Member of the EURASIP Board of Directors (BoD), EURASIP Award Chair (2006-2012) and EURASIP President (2013-2016). He is the General co-Chair of the 2020 IEEE Radar conference. He was the Technical co-Chair of EUSIPCO 2006, of the 2008 Radar Conference, and of the 2015 IEEE CAMSAP workshop, Cancun. He was the General co-Chair of the IEEE Radar Conference, 2nd Workshop on Cognitive Information Processing (CIP2010), the 2014 IEEE International Conference on Acoustics, Speech and Signal Processing (ICASSP 2014), and of the 2nd, 3rd and 4th editions of the workshop on Compressive Sensing in Radar (CoSeRa). He was the Section

Editor for the “Radar Signal Processing” section, Vol.3 of the Academic Press Library in Signal Processing, Elsevier, 2013. He was the guest co-editor of two special sections of the Journal of the IEEE SP Society on Special Topics in Signal Processing, one on “Adaptive Waveform Design for Agile Sensing and Communication” (2007) and the other on “Advanced Signal Processing for Time/Frequency Modulated Arrays” (2017), guest editor of the special section of the IEEE Signal Processing Magazine on “Knowledge Based Systems for Adaptive Radar Detection, Tracking and Classification” (2006), guest co-editor of the two special issues of the EURASIP Signal Processing journal on “New trends and findings in antenna array processing for radar” (2004) and on "Advances in Sensor Array Processing (in memory of Alex Gershman)" (2013). He is co-editor and author of the book “Knowledge Based Radar Detection, Tracking and Classification” (2008) and of the book “Waveform Diversity and Design” (2012). He authored or co-authored 12 book chapters, about 160 journal papers and 190 conference papers, and 2 patents. Prof. Gini’s h-index is 53 and his publications received 10970 citations (Source: Google Scholar).





## **Elisa Giusti**

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Region 8 (Africa, Europe, Middle East)

### **Statement**

I would be happy to lend my support to AESS in strengthening its offering, ensuring that every member can access the essential resources to advance their career path, regardless of their level of experience, gender or sector (be it academia, industry or government).

I firmly believe that AESS can leverage its diverse member base to empower young and student members to shape their future. This can be achieved through personalized coaching, extensive networking opportunities, and comprehensive courses aimed at improving both technical skills (similar to the Education Committee's current efforts) and interdisciplinary skills.

It would be an honor to begin my tenure as a member of the AESS BoG, collaborating with esteemed individuals to also have the opportunity to further strengthen my own interpersonal and cooperative skills. If elected, I pledge to actively contribute to the Council's initiatives, working collectively to extend AESS's reach and deliver tangible benefits to all members, and offering my technical expertise to serve AESS's activities. This commitment includes active involvement in AESS education, industry relations, member services and awards committees.

### **Bio**

Dr. Giusti started her research career as Post-doc Research Fellow at the Department of Information Engineering of the University of Pisa in 2010, where she remained until 2014. While there, she worked on different research topics, including signal processing techniques for OTH (Over The Horizon) radar and Space-Time Adaptive Processing (STAP) techniques for target detection with passive radars

Since 2014, she has been working at the National Interuniversity Consortium for Telecommunications (CNIT), at the Radar and Surveillance Systems (RaSS) National Laboratory, where she is currently Head of Research. Her scientific research interests include definition of radar systems requirements and design for Space Situational Awareness (SSA), and for different platforms (drone, airborne and satellite); development of algorithms for the SAR/ISAR image formation and processing; development of multidimensional radar imaging techniques; and development of AI for ATR using radar images and of Explainable AI (XAI) algorithms. Next to her scientific role, she is also responsible for project proposal definition for national and international tenders and project management. Over the last 10 years, she has had technical and management leadership roles in 9 international research projects, funded by Italian ministries and European organizations.

Her research activities have resulted in more than 100 articles published in peer reviewed journals and proceedings, 7 book chapters and 1 book for which she received the “Outstanding Information Research Foundation Book publication award” in 2016.

Dr. Giusti is also very active within the NATO Science and Technology Organisation (STO), in the Sensors and Electronics Technology (SET) Panel. Currently she is chair of the NATO SET-317 Research Task Groups on “Multi-dimensional and multi-platform” and co-chair of the Women in SET working group, a recently established initiative within NATO STO to promote and support the career development of young women. Within this activity, Dr. Giusti has also co-organized and co-chaired the NATO SET-327 Research Specialist Meeting on “Women in SET”. For her contributions and achievements, in 2021 she received the prestigious NATO SET Early Career Award.

She is a senior IEEE member since August 2023, and member of various IEEE societies, such as AESS (Aerospace and Electronic Systems Society) and SPS (Signal Processing Society), and a member of the Radar System Panel (RSP). Within the RSP she is an active member of the Education committee, where she lectures for the Radar Booth Camp and is a member of the Radar Student Paper Competition committee. Since 2021 she is also Associate Editor of the IEEE Transaction on Computational Imaging (TCI).

Dr. Giusti is also teaching courses on radar Systems at the Telecommunications Engineering, Computer Engineering Faculty, and Maritime and Naval Sciences Academy of the University of Pisa.

Over the past years, she has been tutoring more than 10 visiting/international PhD students, and she is currently supervising 3 PhD students in the field of radar signal and data processing.

In 2015, she co-founded ECHOES, a radar-producing company.



## **J. Scott Goldstein**

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Region 2 (Eastern US)

### **Statement**

My entire professional life has been aligned with the IEEE Aerospace and Electronic Systems Society and its mission and vision. I was strongly engaged in the early 2000's, serving on the BOG, an editor in publications, and as the Vice President for Education. During this period, I also chaired the Northern Virginia Section of the IEEE and led it's AESS Chapter. Due to life circumstances, I ended up being the sole parent for my two young children, born in 2000 and 2002. At that time, I made decisions to decrease my activities and involvement in society leadership. I am now prepared to actively reengage ... and my interests are as strong as ever in advancing the society, supporting both education initiatives & technical operations, serving on committees and participating in AESS activities. I am focused on what I can give to the society and how I can help its advancement. I retired as an Air Force Major General and have the time to undertake and excel in this role and attend meetings.

### **Bio**

Dr. Goldstein has over 30 years of experience leading organizations, running profit-and-loss centers, serving as Chief Technology Officer, Chief Strategy Officer and furthering the development of technology solutions in virtually all fields of ISR, command & control, electronic warfare, space and cyber. He has a proven technical depth and breadth across every discipline that impacts DoD and the intelligence community with expertise in Artificial Intelligence, Digital / Mission Engineering, signal processing and analytics. He has conceived, designed and developed new programs within DARPA, the national intelligence community and the individual military services that apply advanced technology to solve our nation's most difficult problems.

Dr. Goldstein is a Fellow of the IEEE (for contributions to adaptive detection in radar and communications), a Fellow of the Washington Academy of Sciences and a member of the IEEE Radar Systems Panel. He was elected to the National Academy of Engineering Frontiers of Engineering Program as one of the Nation's 100 outstanding young engineers and later developed and led a technical session for the NAE. He received the 2019 IEEE Warren D. White Award "For contributions to the Design, Development and Fielding of Multi-Domain Radar, EW and Cyber Systems," the 2002 IEEE Fred Nathanson Radar Engineer of the Year Award, and the 1999/2000 Clarke Griffiths Memorial Premium for best paper in the IEEE Proceedings - Radar, Sonar and Navigation. He has authored or co-authored well over 100 refereed technical publications and holds four U.S. patents in spread spectrum communications, advanced sensor data compression, ISR and adaptive processing for signal detection. Dr. Goldstein is a member of Sigma Xi, Tau Beta Pi and Eta Kappa Nu and has served on numerous boards and panels for Department of Defense, the Department of the Army, DARPA, the NSA, NRO, National Academy of

Engineering and National Science Foundation.

Dr. Goldstein retired as a major general in the U.S. Air Force where he served as an experienced acquisition, cyber and space operations professional. He held command and leadership assignments as a flag officer at US Cyber Command, 24th AF / Air Forces Cyber, the Space and Missile Systems Center and the Air Force Research Laboratory. He also held senior flag officer staff assignments at the pinnacle of Air Force leadership, working for the Air Force Secretary, Under Secretary and Assistant Secretary for Acquisition, Technology and Logistics. He also worked on the staff for the Secretary of Defense (USD(R&E)) and the Joint Staff as well as within the intelligence community.

Official military bio is at <https://www.af.mil/About-Us/Biographies/Display/Article/588460/jay-scott-goldstein/>

LinkedIn profile is at <https://www.linkedin.com/in/scott-goldstein-292b4514/>



## **Gokhan Inalhan**

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Region 8 (Africa, Europe, Middle East)

### **Statement**

AESS and its focus is continuously transforming with remarkable innovations in electronics, sensing, fusion and artificial intelligence. In that respect, as Editor-in-Chief at IEEE Transactions on Aerospace and Electronic Systems, I have truly appreciated the extent of interest and diversity that AESS attracted within the last three years from a technology and culture perspective in which we saw the number of submissions to TAES increase two-fold within this span. As a member of the BoG, I will use my experience as the TAES EiC to strengthen the linkage between journal and conference publications through new special editions that build on the top papers presented at each of the main AESS conferences. As such, I will increase the value of society membership and giving voice to all members, and especially to junior academics and young professionals across the globe. My focus will be to ensure that their interest and their regional diversity is reflected at all decision-making and representation within AESS, rather this be at publications, conferences, committees or at editorial roles.

### **Bio**

Professor Gokhan Inalhan received his B.Sc. degree in Aeronautical Engineering from Istanbul Technical University in 1997, and the M.Sc. and Ph.D. degrees in Aeronautics and Astronautics from Stanford University, in 1998 and 2004 respectively. In 2003, he has received his Ph.D. Minor from Stanford University on Engineering Economics and Operations Research (currently Management Science and Engineering). Between 2004 and 2006 he had worked as a Postdoctoral Associate at Massachusetts Institute of Technology. During this period, he had led the Communication and Navigation group in the MIT-Draper Laboratory NASA CER project. He has served as Director of Controls and Avionics Laboratory (2006-2016) and Director General of Aerospace Research Centre (2016-2019) at Istanbul Technical University. Gokhan is currently BAE Systems Chair, Professor of Autonomous Systems and Artificial at Cranfield University.

Gokhan has led and managed numerous grants and industrial projects from FP7, H2020, SESAR, EC Marie-Curie, EPSRC, UKRI, ATI, Innovate UK, BAE Systems, BAE Systems FalconWorks™, Boeing, Airbus, BR&T Europe and major Euro-Asian aerospace, defense and aviation companies. He and his research are recipient of awards such as IEEE AESS Exceptional Service Award, Boeing Faculty Fellowship, Council of Higher Education Outstanding Achievement, TUBITAK Innovation Success Stories and Best Paper Awards (IEEE). Gokhan has been serving in Science, Technology and Advisory Boards of various government and commercial entities and he is a member of the general assembly of ASDA and Eurocontrol Agency Research Team. His professional service span technical committees (AIAA Guidance, Navigation and Control TC, IFAC TC on Aerospace), program and editorial boards in which he has been leading

themes including autonomy, intelligent systems and transportation for IEEE CCTA, ICRA, SESAR SID and AIAA GNC. He is currently the Chair of IEEE Technical Committee on Aerospace Controls and the Editor-in-Chief of IEEE Transactions on Aerospace and Electronic Systems. Gokhan is a life-time member and Associate Fellow of AIAA.

Professor Inalhan leads the research theme on autonomous systems and artificial intelligence within the School of Aerospace, Transport and Manufacturing at Cranfield University. He and his research group focus on design, modeling, GNC, resilience, and security aspects of autonomy and artificial intelligence for air, defense, transportation, and space systems. Current research themes include advanced flight controls and reinforcement learning for autonomous systems, human-autonomy interaction in team concept, urban air and cargo mobility, ATM/UTM, data analytics driven digital twin and surrogate modeling, explainable AI for trustworthy autonomous systems.



## **Lorenzo Lo Monte**

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Region 1 (Northeastern US)

### **Statement**

During my service in AESS, I created the “Virtual Distinguished Lecture,” a growing program highly appreciated by our members. I doubled the Distinguished Lecturers, so that you have more opportunities to learn and network. I am training chapter chairs worldwide to ensure they know how to run your local chapter effectively. To date, I have approved the largest funding to local chapters to create initiatives for your benefit.

As a passionate educator, I take great pleasure in volunteering to teach AESS in underrepresented areas without any cost to IEEE. I fully intend to keep sharing my knowledge and helping those in need, as it brings me immense joy to empower others.

I understand how important it is to support our members in their career journeys. If I am given the opportunity to continue serving the AESS, I want to assure you that I will remain fully committed to providing our members with ample opportunities for activities, learning and networking, while also ensuring that your individual needs are met to the best of my ability.

### **Bio**

Dr. Lorenzo Lo Monte has experience in Radar, RF, DSP, and EW systems design and prototyping, from small companies, consulting, academia, research institutions, to large defense contractors and government agencies worldwide. He serves as Chief Scientist at TTM Technologies, a top-40 U.S. defense corporation specializing in ISR, with the role of translating research innovations into commercial products. Before that, he was a Professor at the University of Dayton and the Executive Director of the Mumma Radar Laboratory. Lorenzo has published over 70 peer-reviewed journal papers, conference proceedings, book chapters, and patents.

Throughout his career, he gained experience in radar systems prototyping from HF to W Band, including AESAs, fully digital arrays, automotive/FMCW radars, health radars, ASW/ASuW, AEW, multistatic and MIMO radars, SAR/ISAR, Tomography, GPR, DAA/ABSAA, passive sensing and geolocation, LO/CLO, RCS, counter IED/EFP/UAS, BMD target discrimination, resonance and nonlinear exploitation, EA/EP/ES, AMTI/GMTI/MMTI/DMTI, CCA and MUM-T, MCA/ATR, clutter modeling, antenna/microwave design and measurements, instrumentation control, computational EM, inverse scattering, Digital and Statistical Signal Processing, Adaptive/Systolic Array Processing, STAP, MIL-STD/NTIA/RTCA compliance, PCB, packaging, MxFE, SysML/DoDAF and MBSE.

Lorenzo is highly active in the IEEE community: he was the General Chair for IEEE RadarConf'22 and serves as an AESS Officer (VP Member Services). He held the VP role for Education (AESS) and VP for Industry (Region 1). Lorenzo was also a Technical Editor of the IEEE Sensors Journal for many years. Lorenzo is also an AESS Distinguished Lecturer and an approved AESS Short Course Instructor. He taught many short courses in radar, EW, and RF worldwide, including at AFRL, NASIC, AFLCMC, MIT, Fraunhofer Institute, DSTG Australia, Singapore, as well as underrepresented sections such as Algeria, Tunisia, Saudi Arabia, Colombia, Sri Lanka, and Bolivia.





## **Philipp Markiton**

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Region 8 (Africa, Europe, Middle East)

### **Statement**

I am an active and motivated member of IEEE and AESS for five years now and I recognized from the very beginning AESS as a very open and friendly society. Since 2020, I have had the privilege of serving as the AESS Young Professionals Representative, and since 2022, I have held the position of Co-Editor in Chief of the AESS Newsletter QEB. My involvement with the AESS BoG and its various activities has provided me with a unique opportunity to contribute to the enhancement of AESS for the benefit of its members. I have dedicated my time and energy to fulfill my responsibilities in these roles.

If elected as a member of the AESS BoG, my primary goal would be to build upon my existing efforts and further improve the society's offerings for its members. I am particularly committed to enhance educational opportunities for students and increase the engagement of students and young professionals within AESS. I consider the chance of being elected a great honor, and I would take this role very seriously.

### **Bio**

Philipp Markiton (né Wojaczek) (Member, IEEE) received the M.Sc. degree in Electrical Engineering, Electronics, and Information Technology from the Friedrich-Alexander-Universität Erlangen-Nürnberg, Erlangen, Germany, in 2014, and the Ph.D. degree in Radar Remote Sensing from the University of Rome “La Sapienza,” Rome, Italy, in 2019. Since 2015, he has been a Research Scientist with the Fraunhofer Institute for High Frequency Physics and Radar Techniques FHR, Wachtberg, Germany, where he has been working on signal processing for passive radar and multistatic radar systems. His research interests include GMTI, SAR and signal processing for passive radar and multistatic radar systems. He was a visiting researcher at the DIET Department, University of Rome “La Sapienza”, Italy in 2016/2017, and at TNO, The Hague, The Netherlands in 2022.

He has served as the Young Professional Representative for the IEEE AESS since 2020, and has been the Co-Editor in Chief for the AESS Newsletter “Quarterly Email Blast (QEB)” since 2022. Philipp Markiton is also actively involved in NATO activities, in 2023 he chaired the SET-ET-128, and since 2024 he has been chairing the NATO RTG SET-335. Philipp Markiton is a recipient of the Robert T. Hill Best Dissertation Award for his Ph.D. thesis awarded from the IEEE Aerospace and Electronic Systems Society (AESS) in 2019, and he co-authored the paper that won the Best Poster Award at EUSAR 2018. Additionally, he received the NATO SET Panel Excellence Award for excellent contribution as member of the SET-258 Task Group and as member of the APART-GAS Team.



## **Kumar Vijay Mishra**

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Region 2 (Eastern US)

### **Statement**

I am excited to be a candidate for the IEEE AESS BoG!

We are entering an exciting era where technology and innovation will drive our economic growth, scientific exploration, and quality of living. Future challenges in aerospace radar research and industry, such as autonomous platform integration, spectrum, AI/ML, green energy, smart cities, quantum engineering, IoT, healthcare, Artemis missions, resilient infrastructure, and national defense. As a seasoned professional bridging academia, government, and industry, I will support initiatives addressing these challenges through global knowledge exchange, specialized meetings/collaborations, new IEEE standards, and advocacy for funding opportunities thereby keeping our members at the forefront of radar/aerospace technology.

Fostering diversity and inclusion is vital to my AESS vision. I will dedicate my time, expertise, and energy to expand our impact in responding to the shortage of engineering talent in AESS topics; enhancing ways to recruit women and underrepresented groups; support professional development through continuous learning resources; organize AESS events in developing economies; and facilitate partnerships with other radar groups/societies such as AMS, AGU, and URSI.

Thank you for your consideration!

### **Bio**

Kumar Vijay Mishra (S'08-M'15-SM'18) obtained a Ph.D. in electrical engineering and M.S. in mathematics from The University of Iowa in 2015, and M.S. in electrical engineering from Colorado State University in 2012, while working on NASA's Global Precipitation Mission Ground Validation (GPM-GV) weather radars. He received his B. Tech. summa cum laude (Gold Medal, Honors) in electronics and communication engineering from the National Institute of Technology, Hamirpur (NITH), India in 2003. He is currently Research Scientist at the Institute for Systems Research, The University of Maryland, College Park under the ARL-ArtIAMAS program; Technical Adviser to Singapore-based automotive radar start-up Hertzwell and Boston-based imaging radar startup Aura Intelligent Systems; and honorary Research Fellow at SnT - Interdisciplinary Centre for Security, Reliability and Trust, University of Luxembourg. Previously, he had research appointments at the United States Army Research Laboratory (ARL), Adelphi; Electronics and Radar Development Establishment (LRDE), Defence Research and Development Organisation (DRDO) Bengaluru; IIHR - Hydroscience & Engineering, Iowa City, IA; Mitsubishi Electric Research Labs, Cambridge, MA; Qualcomm, San Jose; and Technion - Israel Institute of

Technology.

Dr. Mishra is the Distinguished Lecturer of the IEEE Communications Society (2023-2024), IEEE Aerospace and Electronic Systems Society (AESS) (2023-2024), IEEE Vehicular Technology Society (2023-2024), IEEE Geoscience and Remote Sensing Society (2024-2025), and IEEE Future Networks Initiative (2022). He is the recipient of the IET Premium Best Paper Prize (2021), IEEE T-AES Outstanding Editor (2021), U. S. National Academies Harry Diamond Distinguished Fellowship (2018-2021), American Geophysical Union Editors' Citation for Excellence (2019), Royal Meteorological Society Quarterly Journal Editor's Prize (2017), Viterbi Postdoctoral Fellowship (2015, 2016), Lady Davis Postdoctoral Fellowship (2017), DRDO LRDE Scientist of the Year Award (2006), NITH Director's Gold Medal (2003), and NITH Best Student Award (2003). He has received Best Paper Awards at IEEE MLSP 2019 and IEEE ACES Symposium 2019.

Dr. Mishra is Chair (2023-present) of the Synthetic Apertures Technical Working Group of the IEEE Signal Processing Society (SPS) and Vice-Chair (2021-present) of the IEEE Synthetic Aperture Standards Committee, which is the first SPS standards committee. He is the Chair (2023-2026) of the International Union of Radio Science (URSI) Commission C. He has been an elected member of three technical committees of IEEE SPS: SPCOM, SAM, and ASPS, and IEEE AESS Radar Systems Panel. He has been Associate Editor of IEEE Transactions on Aerospace and Electronic Systems (2020-) and IEEE Transactions on Antennas and Propagation (2023-). He has been a lead/guest editor of several special issues in journals such as IEEE Signal Processing Magazine, IEEE Journal of Selected Topics in Signal Processing, IEEE Journal on Selected Areas in Communications, and IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing. He is the lead co-editor of 5 radar books: Signal Processing for Joint Radar-Communications (Wiley-IEEE Press), Next-Generation Cognitive Radar Systems (IET Press Radar, Electromagnetics & Signal Processing Technologies Series), and Advances in Weather Radar Volumes 1, 2, & 3 (IET Press). His research interests include radar systems, signal processing, remote sensing, and electromagnetics.



## **Puneet Kumar Mishra**

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Region 10 (Asia and Pacific)

### **Statement**

As the AESS BoG my focus will be to make AESS truly global, inclusive and ensure that AESS event locations reflect geographic distributions of its membership. I will work ceaselessly to get more equitable participation of AESS volunteers in AESS governance and at the same time make AESS membership attractive to students, YPs, WiEs and Industry Professionals. A broader based AESS will make the Society more relevant to practicing technologists and academics and attract talent across globe.

I plan to work on the following issues if I become AESS BoG.

1. Address the issue of value of membership vs dues vs professional growth through proactive outreach among prospective and existing members.
2. Ensuring relevance of AESS by engaging with technologists at the grassroots to highest level, nurturing new talents & technologies, promoting sustainable development through AESS field of interest technologies.
3. Provide Lifelong learning opportunities to members via tutorials, webinars, plain-talk courses in AESS's Field of Interest.

I confirm that I have the time to undertake this role and will be able to attend meetings.

### **Bio**

1. Professional Contributions:
  - a. Head, Satellite Antenna Characterization, Test and Design Section of ISRO's U R Rao Satellite Centre, Bangalore, India
  - b. Have rich Experience of RF Characterization of 50 Satellites and 350+ Antennas and Radomes from UHF to Q-Band
  - c. Conceived and Conceptualized World's First and Largest Dual Reflector Compact Range with 10 m Quiet Zone working upto 110GHz, comissioning under progress
  - d. Conceived, Conceptualized and successfully realized for Asia's Largest Subsystem level Magnetic Measurement Facility
  - e. Conceived, Conceptualized, and successfully realized Satellite level EMC Chamber

- f. Indigenously designed and developed compact, broadband, light weight, Compact Range Feeds for UHF, L-,S-,C-,Ku-,K-,Ka-,Q- and V-Bands
  - g. Indigenously designed and developed a payload to study the RF Blackout phenomenon during re-entry of Indian space shuttle
  - h. Indigenously designed and developed Bus Bars for High Power Spacecrafts
  - i. Developed a novel RF Characterization methodology for RF Characterization of:
    - 1. Multi-beam High Throughput satellites, 2. Unfurlable Antennas, 3. Fighter aircraft radomes, 4. SAR Satellites
  - j. Published more than 60 technical papers and won 6 Best paper awards
2. Volunteering Contributions:
- a. Leadership Roles:
    - i. IEEE AESS
      - 1. 2022-2024: Board of Governor & Lead of AESS India Initiative
      - 2. 2021-2024: Member, Glue Technologies for Space Systems Technical Panel
    - ii. IEEE
      - 1. 2023: Member, IEEE New Initiatives Committee (NIC)
      - 2. 2022-2023: Member, Technical Program Integrity Committee (TPIC)
      - 3. 2022-2024: Corres. Member, IEEE Industry Engagement Committee (IEC)
    - iii. IEEE APS
      - 1. 2022-2023: Member, Technical Committee on Antenna Measurements
      - 2. 2022-2024: Member, Executive Committee of IEEE MAPCON
    - iv. IEEE India Council:
      - 1. 2017-2018: Vice Chair-Industry Relations
      - 2. 2019-2020: Secretary
      - 3. 2021-2022: Vice Chair-Professional Activities
      - 4. 2023-2024: Vice Chair-Technical Activities
    - v. IEEE Bangalore Section
      - 1. 2013: Joint Secretary
      - 2. 2014-2015: Secretary
      - 3. 2016: Treasurer
      - 4. 2017-2018: Vice Chair
      - 5. 2019: Chair-Elect
      - 6. 2020: Chair
      - 7. 2021: Nominations & Appointment Committee Chair
      - 8. 2022-2023: Member, Nominations & Appointment Committee
    - vi. IEEE AESS Bangalore Chapter
      - 1. 2020-2021: Member, EXECOM
      - 2. 2022-2023: Chair-Elect
      - 3. 2024-2025: Chair
    - vii. IEEE AP/MTT Joint Bangalore Chapter
      - 1. 2018-2019: Secretary
      - 2. 2020-2021: Chair-Elect

3. 2022-2023: Chair
4. 2024: Immediate Past Chair
- viii. General Chair/Co-Chair of IEEE Conferences
  1. 2024: INDISCON, INDICON, TALE
  2. 2022: MAPCON
  3. 2020: CONECCT, BTC, B-HTC
  4. 2020: 5G Technology Forum, Bangalore
  5. 2019: AISYWLC
  6. 2018-2019: InCAP
  7. 2017: iAIM
- ix. Honorary Chair of IEEE Conferences
  1. 2021-2024: MysurCon, NKCon
- x. TPC Chair/Co-Chair of IEEE Conferences
  1. 2017-2019: IEEE CONECCT
3. Major Contributions:
  - a. As Lead of AESS India Initiative, enhanced AESS Membership in India from 150 to 850+ (i.e. >5.5 times), no of section chapters from 3 to 8(>2.5 times), no of student branch chapters from 1 to 30 (30 times).
  - b. As Corresponding member of IEEE IEC conceived and conceptualized Women in Technology Leadership Award and ensured \$75K funding from Walmart Labs.
  - c. As Bangalore Section Chair: 1. Raised the membership to 9,521, a growth of 7% during covid year 2020, reversing the global (-) negative 6% growth of IEEE. 2. Opened 57 number of IEEE OUs (2 Subsections, 4 Society Chapters, 15 Student Branches, 32 Student Branch Chapters, 4 Student Branch Affinity Groups).3. Conceived and successfully organized 4 Flagship programs: 1. Bangalore-Humanitarian Technology Conference, Bangalore Technology Conclave, WiE Global Summit and YP Global Summit



## **Giovanna Ramirez Ruiz**

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Region 9 (Latin America)

### **Statement**

I am really interested in continuing to join the AESS BoG (2025-2027) as a volunteer with the aim of promoting aerospace development in Latin America R9, being a channel of communication between students and professionals, encouraging openness of new branches and chapters in the region, develop and support high-impact projects in the aerospace sector, motivate future generations to study engineering and STEM areas. On the other hand, having the honor of being part of the BoG will provide me with the tools and skills to advance my development as a professional in the aerospace field. It will give me the opportunity to share knowledge with my country, Colombia. It will be an opportunity to teach and continue promoting the advancement of aerospace science, technology and innovation in Latin America and the world. I hope to have the opportunity to contribute my love of science and my passion for aerospace research. Hereby confirm that I have the time to perform my assigned duties and/or tasks and will be able to attend meetings.

### **Bio**

Giovanna Estefania Ramírez Ruiz received her professional degree in Electronic Engineering, as well as a Master's Degree in Development and Comprehensive Project Management. She is also a certified aviation pilot and analog astronaut recognized by aerospace training center in Poland, México and the United States.

She is a Professor of the master's program in aerospace engineering at the San Buenaventura University and the Julio Garavito Colombian School of Engineering. She is a member of the Board of Governors of the Society of Aerospace and Electronic Systems AES (2023-2024). Past President of the AESS Colombia chapter (2019-2021); Mentor of the United Nations (UN) "Space For Women" program; Former fellow of the Japan Global Space consortium, Researcher and developer of a space mission through a HeptaSat-satellite. She has worked in the Directorate of Science, Technology and Innovation and in the Postgraduate School of the Colombian Aerospace Force.

She has been involved in several national and international research projects in cooperation with IEEE (Institute of Electrical and Electronics Engineers), UNISEC (University Space Engineering) and the Colombian Aerospace Force. She has recognitions such as: "50 Memorable Latina Women Award - 2023"; recognition of women in science "Ada Byron 2021"; "Successful Women Award Colombia 2020" in the Science and Technology category; Best Young professional IEEE 2019; Entrepreneur of the year 2018 'with the JULIO GARAVITO award', and Author of the "Genius

Pamper"" invention. Recognized as Young Promise under 30 years old by COLPARMEX, and selected as Recipient of the International Galileo Chair by COLPARMEX.





## **Matthew Ritchie**

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Region 8 (Africa, Europe, Middle East)

### **Statement**

I believe I can make a valuable contribution to the AESS Board of Governors (BoG), I have already served as a RSP member for a number of years which demonstrates my active commitment to supporting this society. If elected I would like to provide representation in the areas of aerospace education, challenges/hackathon activities as well as the Europe Region where I am based. I have current and previous colleagues who have been BoG members and therefore have a good understanding of the commitment as well as opportunity this role provides, which has strongly motivated me to submit my application. I am currently heavily involved in the IEEE Radarconf Radar Bootcamp as well as the hackathon which I have helped shape in the past 12 months.

### **Bio**

Dr. Matthew Ritchie received an MSci degree in physics from The University of Nottingham, in 2008. Following this he completed an Eng.D degree at University College London (UCL), in association with Thales U.K., in 2013. He continued at UCL as a postdoctoral research associate focusing on machine learning applied to multi-static radar for micro-Doppler classification.

In 2017 Dr. Ritchie took a Senior Radar Scientist position at the Defence Science and Technology Laboratories (Dstl) which also involved working as the Team Leader for the Radar Sensing group in the Cyber and Information Systems Division. During his time at Dstl he worked on a broad range of cutting-edge RF sensing challenges collaborating with both industry and academia.

As of 2018 he has now taken a lectureship role at UCL within the Radar Sensing group. He is now an Associate Professor at UCL with a team of 4 postdoctoral research fellows and 8 PhDs.

He has served as the Chair of the IEEE Aerospace and System Society (AESS) for the United Kingdom & Ireland and is an active member of the AESS Radar Systems Panel. He is currently a Subject Editor-in-Chief for the IET Electronics Letters journal and a Senior Member of the IEEE. He was awarded a five-year Royal Academy of Engineering Fellowship in collaboration with Leonardo UK in 2023.



## **Avid Roman-Gonzalez**

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Region 9 (Latin America)

### **Statement**

I am excited to nominate Prof. Avid Roman-Gonzalez for the AESS Board of Governors, with a background deeply rooted in aerospace technology, signal and image processing, and artificial intelligence. Prof. Roman-Gonzalez is passionate about advancing the field and contributing to the AESS community.

If Prof. Roman-Gonzalez is elected, his primary goal is to leverage his diverse expertise to foster innovation and collaboration within society. Prof. Roman-Gonzalez intends to champion initiatives that bridge cutting-edge research with practical applications, ensuring AESS remains at the forefront of technological advancements.

As a Board member, Prof. Roman-Gonzalez will focus on enhancing member engagement by creating platforms for knowledge exchange and professional development. I believe in the transparent leadership of Prof. Roman-Gonzalez, who actively seeks input from members and advocates for the society's growth aligned with its core values.

Prof. Roman-Gonzalez envisions the Board as a dynamic force, steering AESS towards a future where aerospace and electronic systems thrive. With Prof. Roman-Gonzalez, let us propel AESS to new heights, empowering members and shaping the future of our dynamic field.

### **Bio**

CEO & Founder at Business on Engineering and Technology S.A.C. (BE Tech). Full professor at National Technological University of Lima Sur (UNTELS). Distinguished Lecturer IEEE AESS, IEEE Senior Member. Electronic engineer from the Universidad Nacional San Antonio Abad del Cusco. Systems engineer from the Andean University of Cusco. Received his M.Sc. Degree in industrial and human automation, from the Université Paul Verlaine de Metz - France, and he received his Ph.D. Degree in image and signal processing from TELECOM ParisTech. He was a postdoctoral fellow at Universidad Peruana Cayetano Heredia.

His work experience includes research at the French Space Agency (CNES) and German Aerospace Center (DLR), university teaching (UNSAAC, UAC, UNI, UPCH, UCH and UNTELS), consulting engineer at CONIDA, SPECTRUM, EGEMSA, etc.

He participates as keynote speaker and jury of projects in various academic events. He has many international published papers. His areas of interest are Signal and image processing, biometrics,

## IEEE AESS Board of Governors | 2025-2027 Nominations

artificial intelligence, human automation, bioengineering, industrial automation, control, and aerospace technology.



## **Vincent Socci**

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Region 3 (Southern US)

### **Statement**

I am willing to serve on the IEEE AESS BoG, and take the duties of the post, including attending meetings and taking responsibilities as directed by the President.

AESS is a valuable and respected leader in aerospace applications, technologies, and industry collaboration. To maintain AESS relevance, we must embrace the technologies of the field – in academia, industry, and policy; study our competitors; partner with other societies; and become a recognized leader in our field. AESS can be a valuable provider of technology, education, community, and collaboration for our members, the industry, and humanity. This will require resources, relationships, and revitalization. We must enhance stakeholder value and maximize benefits while minimizing the costs.

I will:

Actively and effectively utilize society resources to increase membership value.

Seek collaboration with other OUs to address stakeholder needs.

Drive action at the chapter, division, and global level.

Support AESS volunteers and work creatively to benefit our society and industries.

Create programs to educate and grow community among our stakeholders.

Engage chapters to collaborate with best practices toward growth.

### **Bio**

Vince Socci is director of product cost management at Blue Origin, where he leads product cost processes, models, and improvement initiatives to exceed cost targets. He manages cross-functional teams to develop innovative solutions to reduce the cost of access to space. Socci has served as CTO of On Target Motion, an engineering services company specializing in vehicle-based systems, electronics, and controls. He provides business and technical support in aerospace and automotive applications, with emphasis in propulsion, electric vehicles, sensing, and vehicle systems. With 35 years of experience in aerospace technology, his specialized areas of interest are embedded controls, real-time test, and systems engineering for vehicle-based applications.

In the early 90's, Socci designed the first electronics for the Cummins B-series diesel engine. In the mid-90's, he designed power controllers for GE locomotives. Late-90's into 2000's, he developed the HybriDrive HEV powertrain, which is currently used on various platforms from commercial buses to taxis to military trucks. Through the 2000's into 2010's, he developed aero and auto vehicle control systems for power, communications, fueling, radar, motor controls, and unmanned systems. As Director of Large Transport Fuel Systems for Parker Aerospace, he led the development of the A350XWB aircraft to first flight. He later focused on validation systems for powertrain and autonomous aerospace applications, developing simulation/emulation architectures, products, and workflows to solve system development challenges. He is currently active in the commercial space industry, developing rockets for living and working in space..

He holds a BS in electrical engineering, MS in electrical engineering and MBA in technology management. Socci has served on the governing boards of several professional societies, including IEEE, SAE, and PMI. IEEE service includes IEEE Board of Directors, AESS BoG, Educational Activities Board, Region 1 Director, Region 2 Student Activities, Region 3 Strategic Planning, Region 4 PACE, Founding chair of several chapters, and participation in various societies and conferences.

Major accomplishments include:

**BUSINESS LEADERSHIP:** Leading engineering program teams and business units, coaching people and managing technology. Recovered \$80M engineering program from cancellation to award winner. Closed must-win businesses >\$100M, driving consistent 75%YoY growth. Created business units and captured opportunities in leading initiatives to profitability in <2yrs. Used KPIs and transformation planning to turnaround organizations. Founded On Target Motion, which provides hardware, software and systems engineering design services for high-reliability power and control systems

**VOLUNTEERING IN PROFESSION:** Service as IEEE Region 1 Director where he led the transformation of training methods, reformed bylaws and operations, and led policy to manage unprofessional behavior. He led four Key Initiative Region 1 Director goals in 2014-2015: Member Value, Career Services, Engineering Professional Life Cycle, IEEE Reputation and Credentials. While on AES Society BoG, he created value by engaging in UAV standards and creating/managing award-winning technical panels. Served as a distinguished lecturer and created educational content for several societies.

**SERVING PEOPLE:** Led chapters, sections, regions, and global IEEE boards to serve our membership and constituents. Mentored students and new business startups. Serve as Vice Commander at American Legion.



## **Peter Willett**

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Region 1 (Northeastern US)

### **Statement**

If re-elected to the board I intend to help with Finance, Publications and Conferences. Key to Finance is user-friendliness: IEEE is very transparent about Society finances via NextGen, but NextGen presently does not provide clear answers when a VP asks how much of his/her budget has been spent to date. AESS is in good shape financially, and its balance of income between Publications and Conferences is far healthier than that of most IEEE Societies. AESS has a good financial reserve, and it is key to find ways to leverage that to benefit our members and constituency; sponsorship of challenge problems is something that I favor. AESS Publications has recently looked beyond its traditional Magazine (AESM) and Transactions (TAES), and now has a portfolio including portions of JMASS, OJSE and TRS (and, of course, JLT). Most excel, but some need tending, and I can help; and AESS addressing IEEE's pivot to Open Access can benefit from my experience in IEEE Periodicals. AESS has very successful conferences and I relish the opportunity to learn and contribute.

### **Bio**

I am currently the AESS VP for Finance (2022-present). I have had past roles with AESS: VP for Publications (2012-2014), EIC for the AES Transactions (2006-2011), EIC for the AES Magazine (2018-2021), Transactions Associate Editor (1998-2006) and original editor of the "Tutorials" magazine segment. And I was an AESS Distinguished Lecturer.

I also serve the AESS board on its Awards and Conference committees. Outside of AESS, I am very active in IEEE's Signal Processing Society, where I was a Sensor Array & Multi-Channel TC chair (2015-16), SP Letters EiC (2014-16) and Conference Executive board member (2017-19). I was also a member of the IEEE Fellows committee (2018-20), the IEEE TAB Periodicals Committee (PerCom) and chair of its Proposal Development Committee (2014-16 & 2018-present), the IEEE Ethics Committee and the chair of the IEEE IES-OC. I have been general or technical chair of many conferences: SMCC 2003; Fusion 1999, 2006, 2008, 2011, 2018; SAM 2018; and GlobalSip 2019.

I received my BAsC. (engineering science) from the University of Toronto in 1982, and his Ph.D. degree from Princeton University in 1986. I have been a faculty member in the Electrical and Computer Engineering Department at the University of Connecticut since 1986. Since 1998 I have been a Professor, and since 2003 an IEEE Fellow. I consult for numerous organizations, most recently GTRI, STResearch and DARPA. I have published 291 journal papers and 516 conference proceedings papers. My primary areas of research have been statistical signal processing, detection, machine learning, communications, data fusion radar, sonar and tracking.