



IEEE Aerospace & Electronic Systems Society

Fulvio Gini
Awards Chair, IEEE AESS

AESS Awards

AESS recognizes its members through prestigious awards for providing significant contributions to the advancement of the Aerospace and Electronic Engineering Profession



Part II - 2021 AESS Awards Recipients

BoG Virtual Meeting

6-7 May 2021

IEEE Dennis J. Picard Medal for Radar Technologies and Applications



SIMON HAYKIN
(McMaster University, Ontario, Canada)

“for contributions to the development of the theory and practice of radar, especially cognitive radar and adaptive filtering”

Newly Elevated IEEE Fellow Class 2021



STEFANO CORALUPPI
(Systems & Technology Research,
Woburn, Massachusetts, USA)

“for contributions to multi-sensor multi-target tracking”

Newly Elevated IEEE Fellow Class 2021



MICHAEL D. GRIFFIN
(11th Administrator of NASA, Under Secretary
of Defense for Research and Engineering
2018–2020, USA)

“for leadership in space infrastructure and Space Shuttle, International Space Station, Hubble and other missions”

Newly Elevated IEEE Fellow Class 2021



ROBERT T-I. SHIN
(MIT Lincoln Laboratory, Lexington, MA, USA)

“for leadership in electromagnetic modeling of radar systems and in microwave remote sensing”

Newly Elevated IEEE Fellow Class 2021



BIRSEN YAZICI
**(Rensselaer Polytechnic Institute, Troy,
New York, USA)**

“for contributions to synthetic aperture radar
and passive imaging”

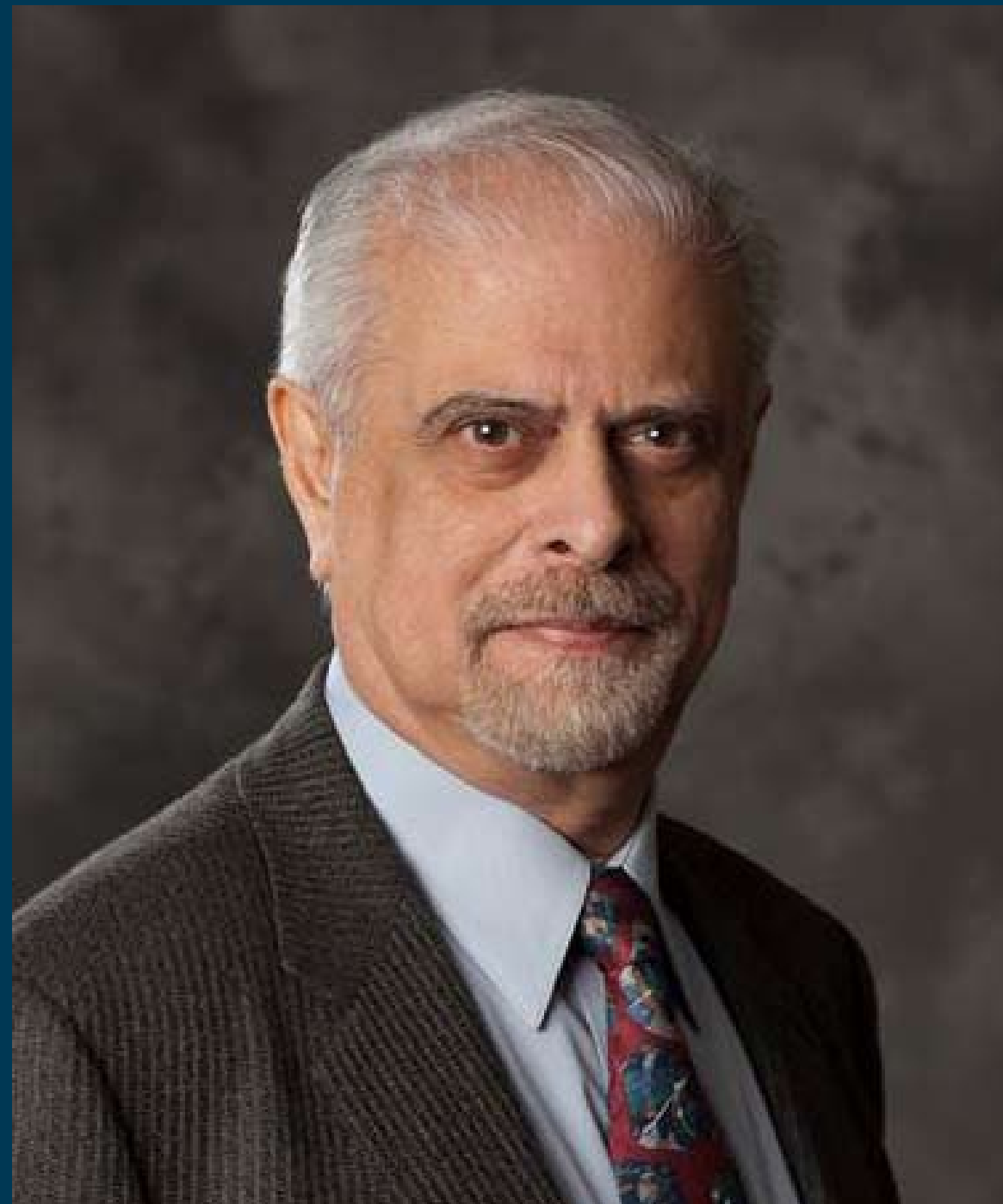
AESS Pioneer Award



ALFONSO FARINA
**(Consultant to Leonardo Land & Naval
Defence Electronics, Rome, Italy)**

“for pioneering contributions to the analysis,
design, development, and experimentation of
digital-based adaptive radar systems”

AESS Judith A. Resnik Space Award



AZAD M. MADNI
(University of Southern California, Los Angeles, CA, USA)

“for leading the development of Model Based Testing Methods and Software for Shuttle Navigation System and sustained excellence in aerospace systems research and education”

AESS Industrial Innovation Award



MIROSLAV N. VELEV
(Aries Design Automation, LLC,
Chicago, USA)

“for contributions to formal verification of microprocessors for aerospace applications and Boolean Satisfiability for SAT solvers”

AESS Early Career Award



ALESSANDRO GARDI
(RMIT University, Bundoora, Australia)

“for outstanding research leadership in Human-Machine Systems for Multi-Domain Traffic Management and Trusted Autonomous Airspace Operations”

Robert T. Hill Best Dissertation Award



FRANCESCA FILIPPINI
(University of Rome Sapienza, Rome, Italy)

In recognition of her PhD dissertation:

“Multichannel Passive Radar Systems: Signal Processing Techniques and Design Strategies”

AESS Engineering Scholarships



UNDERGRADUATE:

ALEX TOWFIGH
(University of California
San Diego, USA)



GRADUATE:

MINGHUI SUN
(University of Virginia, USA)

Outstanding Technical Panel of the Year Award

Technical panels are formed in the Society's fields of interest to stimulate technological advances and **member engagement** in technical networking, standards development, publications, conferences, chapter meetings, and other professional development activities.

Our Technical Panels meet regularly, engaging in educational activities such as Distinguished Lecturers and Short Courses.

AESS currently has six Technical Panels:

- ✓ Gyro and Accelerometer
- ✓ Radar Systems
- ✓ Cyber Security Panel
- ✓ Avionics Systems Panel
- ✓ Navigation Systems Panel
- ✓ Glue Technologies for Space Systems



Outstanding Technical Panel of the Year Award 2020

Glue Technologies for Space Systems Technical Panel

Panel chair: **CLAUDIO SACCHI** (University of Trento, Italy)

Congratulations to all panel members!

Chapter of the Year Award

Chapters are located world-wide and provide a home for similarly minded aerospace engineers.

AESS provides support to its Chapters via several initiative and activities.

AESS currently has 75 Chapters

Regions 1-6 USA: 31

Region 7 Canada: 9

Region 8 Europe, Mid East, Africa: 20

Region 9 Latin America: 5

Region 10 Asia and Pacific: 10



Chapter of the Year Award 2020

VT/AES/EMB/RA/PE Galveston Bay Sect Joint Chapter

Chapter chair: **S. ZAFAR TAQVI** (Houston, USA)

Warren White Award for Excellence in Radar Engineering



DANIEL W. BLISS
(Arizona State University, Tempe, USA)

“for contributions to Multiple-Input Multiple-Output Radar, Multiple-Function Sensing and Communications Systems, and Novel Small-Scale Radar Applications”

Fred Nathanson Memorial Radar Award



ALEXANDER CHARLISH
**(Fraunhofer Institute for Communication,
Information Processing and Ergonomics
FKIE, Wachtberg, Germany)**

“for contributions to radar resource
management and cognitive radar”

M. Barry Carlton Best Paper Award



FARZAD HESSAR
**(University of Washington, Seattle,
WA, USA)**

for the paper entitled
“Spectrum Sharing Between a Surveillance
Radar and Secondary Wi-Fi Networks”

Published in: *IEEE Transactions on
Aerospace and Electronic Systems*,
Volume: 52, Issue: 3, June 2016.



SUMIT ROY
**(University of Washington,
Seattle, WA, USA)**

M. Barry Carlton Best Paper Award



for the paper entitled
“Joint Transmit Designs for Coexistence of
MIMO Wireless Communications and
Sparse Sensing Radars in Clutter”

Published in: *IEEE Transactions on
Aerospace and Electronic Systems*,
Volume: 56, Issue: 6, Dec. 2017.



Bo Li
(Rutgers, The State University of
New Jersey, USA)

ATHINA P. PETROPULU
(Rutgers, The State University of
New Jersey, USA)



Harry Mimno Best Paper Award



for the paper entitled
“An Overview of Cognitive Radar:
Past, Present, and Future”

Published in: *IEEE Aerospace and Electronic
Systems Magazine*, Vol. 34, No. 12,
December 2019.



**SEVGI ZUBEYDE GURBUZ, HUGH D. GRIFFITHS,
ALEXANDER CHARLISH, MURALIDHAR RANGASWAMY,
MARIA SABRINA GRECO, AND KRISTINE BELL**





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Look at the deadline, download the nomination form and nominate one deserving colleague or a paper for an AEISS award!



<http://ieee-aess.org/>