

2020 AESS Awards

AESS Board of Governors Meeting



Awards

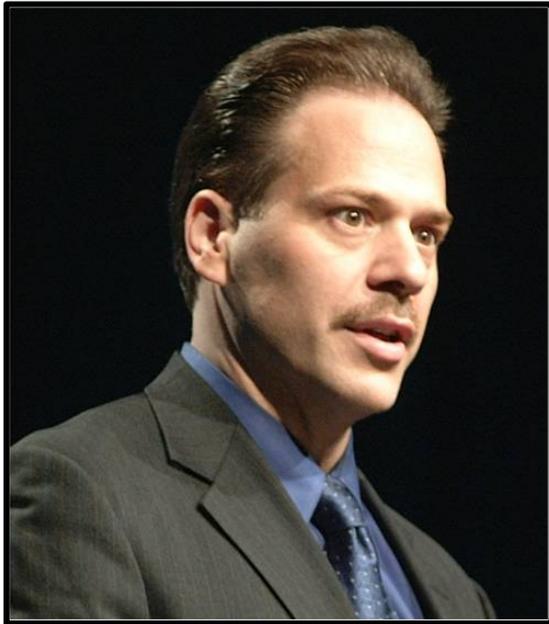
Fulvio Gini, Chair

September 24-25, 2020

Virtual Meeting



2020 IEEE Dennis Picard Medal for Radar Technologies and Applications



Sponsored by: The Raytheon Company

to

Joseph R. Guerci

for

“For contributions to advanced, fully adaptive radar systems and real-time knowledge-aided, and cognitive radar processing architectures”

Prize: Gold Medal, Bronze
Replica and honorarium



Honors 2020: Joseph R. Guerci Wins the IEEE Dennis J. Picard Medal for Radar Technologies and Applications

★★★★☆ 171 views

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Published on
May 14, 2020
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Pioneer Award

2019 Pioneer Award

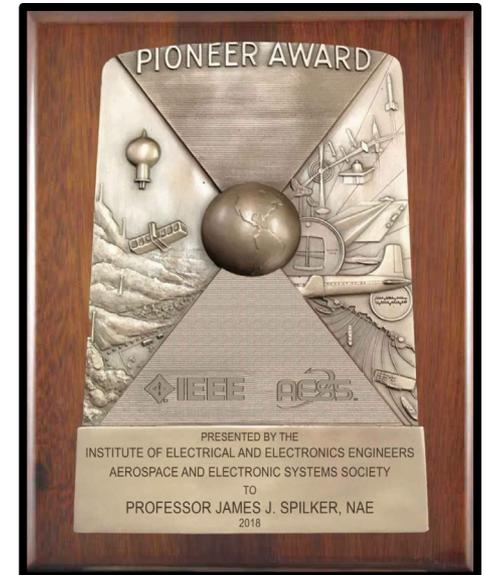
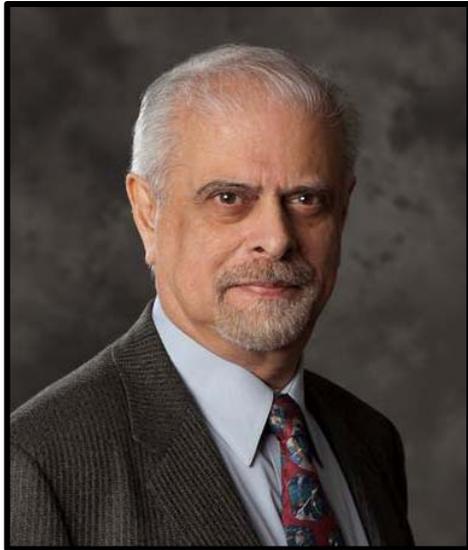
Was Presented to:

Azad M. Madni

at the

**2020 IEEE International
Radar Conference**

27 April – 1 May, 2020
Washington D.C., USA



“For contributions to advanced simulation-based training and intelligent decision aiding for aerospace systems”

Nominator: Dr. Robert Minnichelli

Industrial Innovation Award

2020 AESS Industrial Innovation Award

Was Presented to:



Asad M. Madni

at the

**2020 IEEE International
Radar Conference**

27 April – 1 May, 2020
Washington D.C., USA

“For seminal contributions in advanced inertial guidance and their successful transition to defense and commercial applications”

Nominator: Dr. S. K. Ramesh

Judith A. Resnik Space Award



2020 Resnik Space Award

Was Presented to:

Margaret H. Hamilton



Sample Plaque

“For leading the successful development of the Apollo Guidance, Navigation & Control (GN&C) system software and helping to create the field of software engineering”

Nominator: George T. Schmidt

Outstanding Organizational Leadership Award

2020 Outstanding Organizational Leadership Award

to

Pasquale Daponte

“For contributions to metrology for aerospace applications”

Presented at:

2020 IEEE Radar Conference

21-25 September 2020 – Florence, Italy

Nominator: Sergio Rapuano



Warren D. White Award

**2020 Warren D. White Award for
Excellence in Radar Engineering**



to

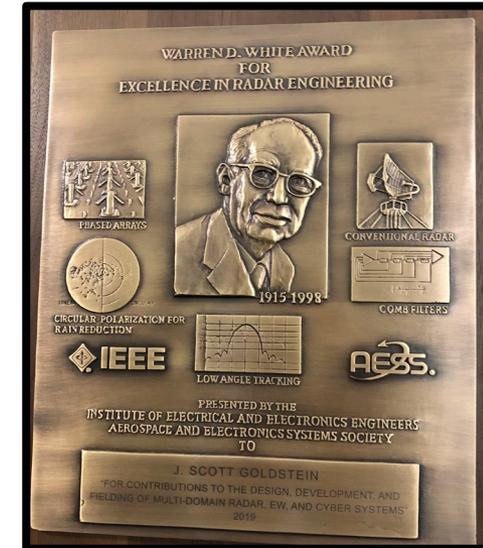
Simon Watts

*“For contributions to airborne maritime
surveillance radar design and the modelling
of radar sea clutter”*

Presented at:

2020 IEEE International Radar Conference
27 April – 1 May, 2020 - Washington D.C., USA

Nominator: Chris Baker



Sample Plaque

Fred Nathanson Radar Award

2020 Fred Nathanson Memorial Radar Award

to

Mateusz Piotr Malanowski

*“For contributions to pioneering research
in long-range passive radar sensing,
in particular the analysis and synthesis
of novel detection and tracking methods”*

Presented at:

2020 IEEE International Radar Conference
27 April – 1 May, 2020 - Washington D.C., USA

Nominator: Chris Baker



Sample Plaque

2015 M. Barry Carlton Award



to: **Jason Williams**

For the July 2015 *IEEE Transactions on Aerospace and Electronic Systems* article:

“Marginal Multi-Bernoulli Filters: RFS Derivation of MHT, JIPDA, and Association-Based MeMBeR”

Presented at the **2020 IEEE International Radar Conference**

27 April – 1 May, 2020 - Washington D.C., USA

2016 M. Barry Carlton Award



to: [Farzad Hessar](#) and [Sumit Roy](#)

For the June 2016 *IEEE Transactions on Aerospace and Electronic Systems* article:

“Spectrum sharing between a surveillance radar and secondary Wi-Fi networks”

To be presented at the **2021 IEEE Radar Conference**

Atlanta, GA, USA, May 12, 2021

2019 Harry Rowe Mimno Award



Ali Awada



Rafic Younes



Hassan Shraim

to:

Ali Awada, Rafic Younes, and Hassan Shraim

For the July 2018 *IEEE Aerospace and Electronic Systems Magazine* article:

“A survey on quadrotors: Configurations, modeling and identification, control, collision avoidance, fault diagnosis and tolerant control”

Presented at the **2020 IEEE International Radar Conference**

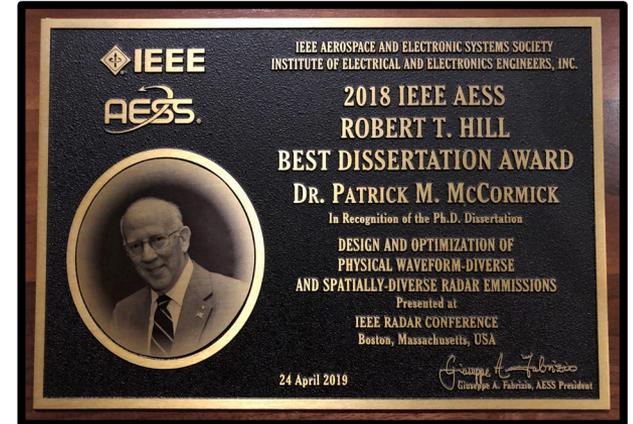
27 April – 1 May, 2020 - Washington D.C., USA

Robert T. Hill Best Dissertation Award



**2019 Robert T. Hill Best
Dissertation Award**
to:

Philipp Wojaczek



Sample Plaque

In Recognition of his Ph.D. Dissertation

***“Passive Radar on Moving Platforms Exploiting DVB-T
Transmitters of Opportunity”***

Presented at the **2020 IEEE International Radar Conference**

27 April – 1 May, 2020 - Washington D.C., USA

Nominator: Pierfrancesco Lombardo

2020 Exceptional Service Award

“For outstanding service as an Associate and Technical Editor for IEEE Transactions on Aerospace and Electronic Systems”



Domenico Ciuonzo



Presented at the **2020 IEEE Radar Conference**

21-25 September 2020 – Florence, Italy

Nominator: Michael Rice

2020 Outstanding Technical Panel of the Year Award



Alope Roy

To

The AESS Avionics Systems Panel

Alope Roy, Chair

Presented at the

2020 IEEE International Radar Conference
27 April – 1 May, 2020 - Washington D.C., USA

Award Committee chair: George T. Schmidt

2020 Chapter of the Year Award

To

The AESS Colombia Chapter

**Giovanna Estefanía Ramírez Ruiz,
Chapter Chair**

Presented at the

2020 IEEE International Radar Conference
27 April – 1 May, 2020 - Washington D.C., USA



Giovanna E. Ramírez Ruiz

Award Committee chair: Fabiola Colone

2020 AESS Engineering Scholarship Award



Undergraduate Recipient:

Eric Kapilik

University of Manitoba, Canada



Graduate Recipient:

Ray Jonkers

Colorado State University, USA

Award Committee chair: Bob Rassa

2020 AESS Fellows



Jeffrey Krolik

for contributions to statistical signal and sensor array processing for radar and sonar



Marco Martorella

for contributions to multi-static inverse synthetic aperture radars

2020 AESS Fellows



Daniel Rabideau

for contributions to radar architectures and technologies



Christ Richmond

for contributions to adaptive array processing algorithms

AESS Awards Ad Hoc Committee

- **Fulvio Gini** (Chair)
- **Peter Willett**
- **Alfonso Farina**
- **Hugh Griffiths**
- **Wolfgang Koch**
- **Xiaopeng Yang**

6. Chapter of the Year Award

Description: To annually recognize the AESS Chapter whose performance was particularly noteworthy during the previous year.

Prize: Certificate to Chapter

Funding: Funded by the IEEE Aerospace and Electronic Systems Society.

Eligibility: Chapters of the AESS.

Basis for Judging: Noteworthy performance in one or more categories: a) supporting AESS conferences, b) AESS membership drives, c) number of successful Chapter meetings.

Presentation: At a convenient IEEE AESS sponsored conference.

Chair: VP Membership Services

Committee: TBD (in collaboration with the VP Membership, Prof. Fabiola Colone)

Nomination Deadline: July 1

Process: TBD (in collaboration with the VP Membership, Prof. Fabiola Colone)

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Funding: Funde

**Revised version approved by the
TABARC in February!**

Eligibility: Cha

Basis for Judging: Noteworthy performance in one or more categories: a) supporting AESS conferences, b) AESS membership drives, c) number of successful Chapter meetings.

Presentation: At a convenient IEEE AESS sponsored conference.

Chair: VP Mem

**TABARC = Technical Activities
Board (TAB) Awards and
Recognition Committee**

Committee: TE

Nomination Deadline: July 1

Process: TBD (in collaboration with the VP Membership, Prof. Fabiola Colone)

TEMPLATE TO ESTABLISH A NEW SOCIETY/COUNCIL AWARD

Title: IEEE Michael C. Wicks Radar Student Travel Grant

Description.

This award is established to provide travel support to enable graduate students who are primary author on a paper in the area of radar signal processing accepted for presentation during the annual IEEE Radar Conference to attend the conference and present their research. The primary author is the student who presents the paper and attends the conference in person. Up to 4% of the prior year fund IEEE Foundation fund balance may be used. Every five years when the International Radar Conference is held in the United States an additional 1% of the prior year fund balance may be used for the same purpose. Support shall be provided in the form of reimbursement after the student has attended and presented their accepted paper. This award does not overlap with any existing award in the AESS Award portfolio and consequently avoids the potential for an awardee to receive two awards for the same recognition.

Administration.

This award is administered by the IEEE Aerospace and Electronic Systems Society (AESS).

Eligibility.

Recipients must be a member of IEEE and AESS at the time of nomination and must be a graduate student who is primary author on a paper in the area of radar signal processing accepted for presentation during the annual IEEE Radar Conference, or the IEEE International Radar Conference when held in the United States. The student must attend the conference and present his/her paper in order to receive the award. Eligibility and Selection process shall comply with procedures and regulation established in IEEE and Society/Council governing documents, particularly with IEEE Policy 4.4 on Awards Limitations. Previous award winners are not eligible.

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**Proposal under evaluation
by the TABARC!**

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TEMPLATE FOR ESTABLISHING A NEW SOCIETY AWARD

Title: IEEE AESS Early Career Award

Description. To recognize an individual, whose age has not reached the 41th birthday by the nomination deadline, and who has made outstanding contributions to aerospace and electronic systems. This proposed new award does not overlap with any existing award in the AESS awards portfolio and consequently avoids the potential for an awardee to receive two awards for the same recognition.

Administration. The IEEE Aerospace and Electronic Systems Society (AESS) will be responsible for administering the award.

Eligibility. This award is to recognize an individual, whose age has not reached the 41th birthday by the nomination deadline, and who has made outstanding contributions to aerospace and electronic systems. The recipient must be a current member of the IEEE and AESS and have been a member of the IEEE and AESS for at least the previous 3 calendar years plus the year of the nomination. Current officers and members of the AESS Board of Governors are ineligible, as well as are ineligible previous recipients of this award, of the Fred Nathanson Early Career Award and winners of major IEEE Field Awards. Self-nominations are not accepted. Members of the AESS Board of Governors are not permitted to submit nominations or reference letters. The AESS Awards Chair may need to work with the AESS Early Career Award Committee Chair and the Fred Nathanson Award Committee Chair to ensure the nominee is in the appropriate award category. In fact, the endowed Fred Nathanson Early Career award is only for an individual working in radar technologies. The AESS Early Career Award is for an individual working in all the other areas of interest of AESS. Nominations to IEEE AESS Early Career

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Administration. The IEEE Aerospace and Electronic Systems Society (AESS) will be responsible for administering the award.

Eligibility
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**Proposal submitted and revised,
under evaluation by the TABARC!**

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The IEEE Aerospace & Electronic Systems Society (AESS) is soliciting nominations for its Awards. To view the full detailed listing of each award please visit the [Awards page](#) on our website.

Nominators should utilize the forms associated with each award description found on the [website](#).

Nominations due December 1, 2020:

AESS Outstanding Organizational Leadership Award

[Details](#) | [Nomination Form](#)

AESS Judith A. Resnik Space Award

[Details](#) | [Nomination Form](#)

AESS Industrial Innovation Award

[Details](#) | [Nomination Form](#)

AESS Society Pioneer Award

[Details](#) | [Nomination Form](#)

Best Chapter of the Year Award

[Details](#) | [Nomination Form](#)

AESS Engineering Scholarship

[Details](#) | [Nomination Form](#)

Outstanding Technical Panel of the Year Award

[Details](#) | [Email VP TechOps](#)

Nominations due January 31, 2021:

Fred Nathanson Memorial Radar Award

[Details](#) | [Nomination Form](#)

Warren D. White Award

[Details](#) | [Nomination Form](#)



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Outstanding Organizational Leadership Award	Society Pioneer Award	Judith A. Resnik Space Award	Industrial Innovation Award
Moeness Amin	Steve Butler	George Andrew	Joachim Ender
Michael Braasch	Pratap Misra	Aloke Roy	Joseph Guerci
Hugh Griffiths	Michael Picciolo	Mark Bentum	Gary McGraw
Peter Willett	Don Sinnott	Maruthi Akella	Roberto Sabatini



Early Career Award
Steve Butler , Johns Hopkins University Applied Physics Laboratory, USA
Yaakov Oshman , Technion, Israel
Gary McGraw , Rockwell Collins Advanced Technology Center, USA
George T. Schmidt (Chair) , MIT Instrument. Laboratory/Draper Laboratory (Retired), USA



3 years for the chair and 3, 2, and 1 year terms for the committee

Thanks for your attention!