

Editors

Editor-in-Chief–Daniel W. O'Hagan,
Fraunhofer FHR, Germany

VP Publications–Lance Kaplan, U.S. Army
Research Laboratory, USA

AESS President–Mark Davis, Independent
Consultant, USA

Operations Manager, AESS–Amanda Osborn,
Conference Catalysts, LLC, USA

Contributing Editors

Awards–Fulvio Gini, University of Pisa, Italy

Book Reviews Editor–Samuel Shapero, Georgia
Tech Research Institute, USA

Conferences–Braham Himed, Air Force Research
Laboratory, USA

Distinguished Lecturers & Tutorials–Alexander
Charlish, Fraunhofer Institute for
Communication, Information Processing
and Ergonomics, Germany

Education–Alexander Charlish, Fraunhofer
Institute for Communication, Information
Processing and Ergonomics, Germany

History–Hugh Griffiths, University College
London, UK

Student Research–Federico Lombardi,
University College London, UK

Technical Panels–Michael Braasch,
Ohio University, USA

Tutorials–W. Dale Blair, Georgia Tech Research
Institute, USA

Website Updates–Amanda Osborn, Conference
Catalysts, LLC, USA

Associate Editors and Areas of Specialty

Scott Bawden–Energy Conversion Systems,
Arctic Submarine Laboratory, USA

Erik Blasch, US Air Force Research Lab (AFRL),
USA

Roberto Sabatini, RMIT University, Australia–
Avionics Systems

Stefan Brueggenwirth, Fraunhofer Institute for
High Frequency Physics and Radar
Techniques FHR, Germany–AI and ML in
Aerospace

Dietrich Fraenken, Hensoldt Sensors, Germany–
Fusion and Signal Processing

Lyudmila Mihaylova, The University of
Sheffield, UK–Target Tracking

Mauro De Sanctis, University of Rome "Tor
Vergata," Italy–Signal Processing and
Communications

Jason Gross, West Virginia University (WVU),
USA–Navigation, Positioning

Giancarmine Fasano, University of Naples
Federico II, Italy–Unmanned Aircraft Systems

Daniel O'Hagan, Fraunhofer Institute for High
Frequency Physics and Radar Techniques
FHR, Germany–Radar Systems

Raktim Bhattacharya, Texas A&M,
USA–Space Systems

Haiying Liu, DRS Technologies, Inc., USA–
Control and Robotic Systems

Michael Cardinale, Retired, USA–Electro-Optic
and Infrared Systems, Image Processing

Ruhai Wang, Lamar University, USA–Systems
Engineering

Marco Frasca, MBDA, Italy–Quantum
Technologies in Aerospace Systems

How to Reach Us

We welcome letters to the editor; but, we
reserve the right to edit for space, style, and
clarity. Include address and daytime phone
number with your correspondence.

E-mail: Daniel W. O'Hagan,
danieloha@gmail.com

Catherine Van Sciver,
c.vansciver@ieee.org



February 2023

ISSN 0885-8985

Volume 38 Number 2

COLUMNS

In This Issue –Technically 3

FEATURE ARTICLES

Anti-Interference Recognition for Aerial Infrared Object Based on
Convolutional Feature Inference Network
J. Yang, C. Li, S. Li, X. Zhang, X. Yang, Y. Sun 4

Review of Terahertz Antenna Technology for Science Missions in Space
F. Teng, J. Wan, J. Liu 16

Defining Phased Array Bandwidth
R.L. Haupt, C. Kidder 34

NEWS AND INFORMATION

2023 Aerospace & Electronic Systems Society Organization and
Representatives 2

AESS Senior Members Elevated 33

2023 Aerospace & Electronic Systems Society Distinguished Lecturers
Program 43

The History Column: Moonshine
S. Watts 44

IEEE to Form a Technical Council on Transportation Electrification 47

AESS Meetings and Conferences inside back cover

Publishers: Send books for review to Samuel Shapero, 407 Angier Place NE, Atlanta, GA 30308. If you have questions,
contact Samuel by e-mail at samuel.shapero@gtri.gatech.edu.

Advertisers

If you are interested in advertising in the AESS SYSTEMS Magazine, please contact Anthony Land at Naylor
Associates at aland@naylor.com or Daniel W. O'Hagen at danieloha@gmail.com