## **Editors**

Editor-in-Chief-Maria S. Greco
Associate Editor-in-Chief-Peter K. Willett
Administrative Editor-William P. Walsh
Ass't. Admin. Editor-Susanne J. Walsh
Editor Emeritus-David B. Dobson
VP Publications-W. Dale Blair
AESS President-Teresa L. Pace
Executive Assistant, AESS
-Judy Scharmann

## **Contributing Editors**

Awards–Erwin C. Gangl
Book Reviews Editor–Darin Dunham
Conferences–Mark Davis
Distinguished Lecturers &
Tutorials–Kathleen Kramer
Education–Kathleen Kramer
History–Hugh D. Griffiths
Student Research–Wenbo Dou,
John Glass
Technical Panels–Walter Downing
Tutorials Editor–W. Dale Blair
Website Updates–Judy Scharmann

Associate Editors and Areas o

## Associate Editors and Areas of Specialty

Scott Bawden–Energy Conversion
Systems
Erik Blasch, Roberto Sabatini–Avionics
Systems
Domenico Ciuonzo–Communications,
Signal Processing, and Data Fusion
David Crouse–Target Tracking
Mauro De Sanctis–Signal Processing and
Communication in Aerospace Systems
Michael Braasch–Navigation, Positioning
Daniel O'Hagan–Radar Systems
Moriba Jah–Astronautic and Aeronautic
Systems

Haiying Liu–Control System Engineering and Robotic Systems

Michael Cardinale–Electro-Optic and Infrared Systems, Image Processing Ruhai Wang–Systems Engineering Peter Willett–Multi-Sensor 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.

Email: sjwalsh4@gmail.com wpwalsh7@gmail.com rjanssen@allenpress.com

Publishers: Send books for review to Darin Dunham, c/o Vectraxx, Inc.,12131 Howards Mill Rd., Glen Allen, VA USA, 02359-1542. If you have questions, contact Darin by e-mail at darin@ vectraxx.com



April 2016 ISSN 0885-8985 Volume 31 Number 4

COLUMNS	
In This Issue – Technically  From the Associate Editor-in-Chief	
ARTICLES	
Reengineering the Avionics of an Unmanned Aerial Vehicle  Jose L. Fernandez, Juan Lopez, J. Patricio Gomez	6
Design and Implementation of a Low-Cost SoC-Based Software GNSS Receiver Surabhi Guruprasad, Sunil Bisnath, Regina Lee, Janusz Kozinski	14
A Survey on Two-Stage Decision Schemes for Point-Like Targets in Gaussian Interference  A. De Maio, D. Orlando	20
NEWS AND INFORMATION	
Letter to the Editor  Myron Katyon, IEEE Fellow	4
AESS Senior Members	4
2016 Robert T. Hill Best Dissertation Award Call for Nominations	5
IEEE Member Digital Library	30
2015 AESS Periodicals Index	31
Meetings and Conferences inside back co	ver