

IEEE AESS Magazine 2013

Fall Board of Governors Meeting

Orlando, FL

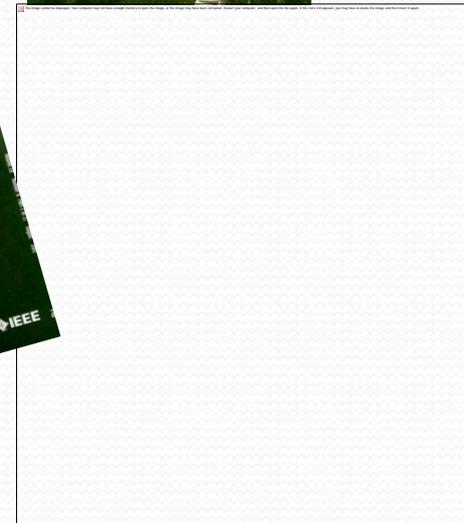
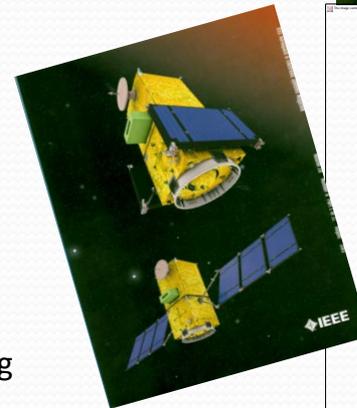
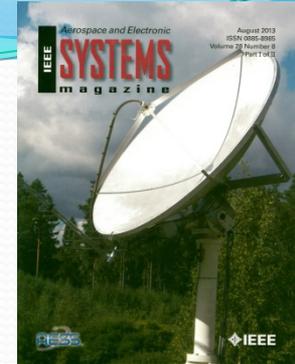
October 4, 2013

Magazine Publication Leadership

- VP Pubs- Peter Willett
- EIC – Teresa Pace
- Assoc EICs –Dale Blair, Maria Greco
- Admin Editors – Bill Walsh, Asst Admin Ed - Susanne Walsh
- Editorial Consultant– David Dobson
- Assoc Editors
 - Scott Bawden – Maritime, Energy, Position, Navigation, Timing
 - Erik Blasch- Recognition Tracking, Sensors & Assessments
 - Shirley Cheng – Guidance, Distributed Sensors, Fusion, Biometric
 - David Crouse – Sensors, Electro-Optics, Radar
 - Mauro De Sanctis- Space Communications and Electronics
 - Carles Fernandez Prades – Navigation and Position
 - Maria Greco – Clutter Models, Radar signal Process, Radar Systems, PITA papers
 - Moriba Jah- Astronautics, Aeronautics
 - Haiying Liu – Fusion, Image Processing, Tracking
 - Ruhai Wang – Communication Systems
 - Peter Willett – Tracking, Fusion, Signal Processing, PITA papers
- Contributing Editors
 - Awards – Erwin Gangl
 - Book Reviews – Darin Dunham
 - Conferences- Iram Weinstein
 - Distinguished Lecturers and Tutorials – Guiseppe A Fabrizio
 - Education –Guiseppe A Fabrizio
 - History – [Henry Oman](#), Ron Schroer
 - Student Research – Richard Coogle, John Glass
 - Technical Panel – [Theodora Saunders](#)
 - Tutorials Editor – Braham Himed
 - Website Updates – Judy Scharmann
 - Quarterly Email Blast – Cosimo Stallo

Magazine Highlights

- August 2013 - Special Issue on Standards and Tutorial (Part I and II) GREAT JOB!!!
 - Guest Editors: Dale Blair and Bill Walsh for Part I
 - Part I: Welocme from Lance and Handover to Brahm
 - 6 articles (will be greater than regular 48 pages)
 - Coincides with 30th Anniversary of IEEE 802 family of standards (ethernet, wireless, etc)
- First history interview article in works
 - Interviewed- Dave Dobson
 - Author - Dale Blair
 - Interview held and recorded on video, April 2013 (issue with sound)
 - Need to re-do, in process
- Spring 2014 - Special Issue on Wide Area and Staring SAR Radars
 - Guest Editors: Brian Rigling and Steven Scarborough
- Summer 2014 –Special Issue on Signal Processing for Remote Sensing
 - Guest Editors: Krzysztof Kulpa, Felix Yanovsky
- Late 2014/Early 2015 – Special Issue on Avionics Systems
 - **Direct response from Linked In discussion – our societies / readers’ inputs incorporated**
 - Guest Editors: Erik Blash, Paul Kostek, William Walsh
- Upcoming history article in progress “How Electronics Picked Up the Ball for Navigation Before GPS”
 - Author Ron Shroer – Past EIC and Current Editor
 - Submitted to e-journal, reviews and updates in process
- Upcoming student mentoring article “Engineering in High School”
 - Author Bob Rassa, IEEE-AESS Sr. Past president
 - In process, nearly complete



Harry Mimno Award Description



Harry Rowe Mimno Award

Established in 1977, the purpose of this award is to encourage and recognize excellence in clear communication of technical material of widespread interest to AESS members. In so doing, this award honors *Harry Rowe Mimno's* more than fifty years of contributions to the IEEE; it is presented to the author of a primarily tutorial, survey, or speculative contribution, or one which advocates new ideas or principles tending to promote debate.

Originated to reward contributors to the *IEEE Transactions on Aerospace and Electronic Systems* (Dr. Mimno was the first Editor-in-Chief), in 1986 the award's focus was shifted to the *IEEE A&E Systems Magazine* as it debuted as a publication of record issued by the *IEEE Aerospace & Electronic Systems Society*.

Contributions (and some background stories) made by Mimno to the IEEE and to the profession may be found in *IEEE Transactions on Aerospace and Electronic Systems AES-15*, 4, (July 1979), 584-587, and items scattered throughout John Alvin Pierce's contributions to *IEEE A&E Systems Magazine*.

[These may be located under *History* in the *50 Year Cumulative Index* of the Archival Publications issued by the *IEEE A&E Systems Society* and forebears, issued as Part 2 of *IEEE Transactions on Aerospace and Electronic Systems*, 36, 3, (July 2000).]

Harry Mimno Award 2011

Note: Typically awards are selected and awarded at least a year or possibly two after they appear in the magazine so that there is time to determine their impact to society in general.

Year 2011

Award Winner - 2011

Regular Paper

“A Low Cost Flight Simulator Using Virtual Reality Tools”

Ilkay Yavrucek, Eser Kubali and Onur Tamarici

Middle East Technical University

April 2011

Vol 26 Issue 4

Pgs 10-14

Allen Press Publication Schedule

Volume 28, Issues 1-12, 2013 (Working to pull in tighter as we move to next year)

| Activity | <u>28 / 1</u> | <u>28 / 2</u> | <u>28 / 3</u> | <u>28 / 4</u> | <u>28 / 5</u> | <u>28 / 6</u> |
|--|---------------|---------------|---------------|---------------|---------------|---------------|
| Final manuscripts due at AP | 10/19/12 | 11/20/12 | 12/20/12 | 01/22/13 | 02/21/13 | 03/22/13 |
| AP delivers first PDF proofs to AP ME, editor and authors (15) | 11/09/12 | 12/13/12 | 01/15/13 | 02/12/13 | 03/14/13 | 04/15/13 |
| First corrections due to AP ME (3) | 11/14/12 | 12/18/12 | 01/18/13 | 02/15/13 | 03/19/13 | 04/18/13 |
| AP ME provides first revision PDF proofs to AP (4) | 11/20/12 | 12/26/12 | 01/24/13 | 02/21/13 | 03/25/13 | 04/24/13 |
| AP delivers corrected PDF proofs to AP ME (5) | 11/29/12 | 01/03/13 | 01/31/13 | 02/28/13 | 04/02/13 | 05/01/13 |
| AP ME provides second revision PDF proof to AP (3) | 12/04/12 | 01/08/13 | 02/05/13 | 03/05/13 | 04/05/13 | 05/06/13 |
| AP delivers corrected PDF proofs to AP ME (3) | 12/07/12 | 01/11/13 | 02/08/13 | 03/08/13 | 04/10/13 | 05/09/13 |
| Print count due to AP (0) | 12/07/12 | 01/11/13 | 02/08/13 | 03/08/13 | 04/10/13 | 05/09/13 |
| Final corrections due to AP (2) | 12/11/12 | 01/15/13 | 02/12/13 | 03/12/13 | 04/12/13 | 05/13/13 |
| Final corrections completed/Files uploaded to InSite (2) | 12/13/12 | 01/17/13 | 02/14/13 | 03/14/13 | 04/16/13 | 05/15/13 |
| Mail list due (0) | 12/13/12 | 01/17/13 | 02/14/13 | 03/14/13 | 04/16/13 | 05/15/13 |
| Softproof available for AP ME and AESS (1) | 12/14/12 | 01/18/13 | 02/15/13 | 03/15/13 | 04/17/13 | 05/16/13 |
| AP ME provides corrected files to AP (1) | 12/17/12 | 01/21/13 | 02/18/13 | 03/18/13 | 04/18/13 | 05/17/13 |
| AP ME approves softproof to InSite (1) | 12/18/12 | 01/22/13 | 02/19/13 | 03/19/13 | 04/19/13 | 05/20/13 |
| Issue Mails (8) | 01/01/13 | 02/01/13 | 03/01/13 | 04/01/13 | 05/01/13 | 05/31/13 |

Backup

Call for Papers IEEE Aerospace and Electronic Systems Magazine Special Issue on Wide-Area and Staring Synthetic Aperture Radar

24/7 All-Weather Air-to-Ground Surveillance

With the advent of wide-area motion imagery (WAMI) sensors, it has become possible to provide situational awareness for areas of interest (AOIs) that approach city size. However, these sensors typically operate at optical wavelengths, making them susceptible to interruptions of coverage due to weather events and loss of daylight, thus motivating calls for an all-weather RF adjunct. Similar to the WAMI sensors, a staring, wide-area synthetic aperture radar (SAR) seeks to provide uninterrupted surveillance of a city-sized AOI, allowing perpetual observation of all stationary and moving objects. Development of this capability requires overcoming two overarching technical challenges: (1) real-time synthetic aperture imaging of wide areas (up to 20-km in diameter) with update rates commensurate with WAMI sensors and (2) detection/tracking/recognition of moving and stationary vehicles and individuals with a single-moded, multiple-phase center radar. This special issue will address recent advances in hardware, software, and algorithmic solutions to the challenges posed by wide-area and staring synthetic aperture radar.

Key Topic Areas

- Hardware solutions for wide-area RF illumination and reception
- Solutions for down link of wide-area and staring SAR data
- Computational solutions for wide-area and staring SAR imaging
- Navigational requirements and solutions for staring SAR
- Algorithms: tracking of moving targets in staring SAR
- Algorithms: automatic target recognition in staring SAR
- Algorithms: three-dimensional SAR imaging of targets

For information on paper submission, prospective authors should visit http://sysaes.msubmit.net/cgi-bin/main.plex?form_type=do_cat&file_nm=info.htm. Manuscripts should be submitted using the manuscript submission web site for IEEE Aerospace and Electronic Systems Magazine at <http://sysaes.msubmit.net>. Manuscripts will be peer reviewed according to the standard IEEE AES process.

Important Dates

- Manuscript submission deadline: 15 April 2013
- First review completed: 31 May 2013
- Revised manuscript due: 1 July 2013
- Second review completed: 15 August 2013
- Final manuscript due: 15 September 2013

Guest Editors

- Prof. Brian Rigling – Wright State University, USA – brian.rigling@wright.edu
- Mr. Steven Scarborough – Air Force Research Lab, USA – steven.scarborough@wpafb.af.mil

For Reference

- <http://ieee-aess.org>
- <http://sysaes.msubmit.net>

For Reference – Harry Mimno Award

Award Winner - 2010

Tutorial Paper

“Particle filter theory and practice with positioning applications”,

F. Gustafsson

Dept EE, Linkoping Univ, Linkoping, Sweden

(22 citations from Google scholar)

July 2010

Vol. 25 Issue 7, pp. 53-82

Award Winner - 2009

“How engineers can conduct cost-benefit analysis for PHM systems”

J. Banks, K. Reichard, E. Crow, K. Nickell

Applied Research Lab, State College, PA

(18 Citations Google scholar)

March 2009

Vol. 24 Issue 3, pp. 22-30

Award Winner - 2008

Regular Paper

“UWB radar for patient monitoring”

I. Immoreev, T.H. Tao

Moscow Aviation Inst., Moscow

(18 citations from Google scholar)

November 2008

Vol. 23 Issue 11, pp. 11-18