Status of the IEEE Transactions on Aerospace and Electronic Systems

Lance Kaplan, Editor-In-Chief

May 22, 2014
Number of Submissions
Submissions by Technical Area
Time to First Decisions
# Final Decision

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## Quality

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2012 Rankings (Engineering, Aerospace):

- Impact Factor: #4
- 5-year IF: #3
- Immediacy Index: #11

Source: Thomson Reuters *Journal Citation Report*
IEEE Policy News

• IEEE Xplore
  – New metadata requirements for preprints and articles
  – Delays in posting on IEEE Xplore
    • January issue appeared May 2
    • April issue expected to post by mid-June
    • Delays should disappear by 2015
  – Working on workflow for rapid posting on Xplore
Other Issues

• Paper Format
  – Justified format is currently under investigation

• 2011 Barry Carlton Award
  – Short list be reviewed by senior editorial staff
  – Accepting nominations for 2012 award

• Potential idea - IEEE T-AES Blog
  – Has not been implemented yet
  – Only IEEE AESS members can comment about papers
  – The world can see the comments
  – Is this feasible?
PRAC

• Associate Editors
  – Term limits
  – Diversity

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• Letter to the Editors
• Submission to Publication Time
Special Section: CS Applied to Radar

16 papers
(one published in October 2013)

Guest Editors:
Dr. Joachim H.G. Ender
Dr. Holger Rauhut
Prof. Gilda Schirinzi
Prof. Thomas Strohmer
Prof. Peter Willett
Editors

• Resignations
  – Sam Pullen (Navigation AE)
  – Tod Luginbuhl (Target Tracking and Multisensor Systems AE)
  – Daniele Mortari (Space Systems AE)

• New Appointees
  – Michael Rice (Associate EiC)
  – Phillip Pace (Electronic Warfare Systems TE)
  – Antonios Tsourdos (Guidance and Control Systems AE)
  – Simon Maskell (Target Tracking and Multisensor Systems AE)
  – Vincenzo Matta (Target Tracking and Multisensor Systems AE)
  – Shozo Mori (Target Tracking and Multisensor Systems AE)
  – Felix Govaers (Target Tracking and Multisensor Systems AE)
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AESS Quarterly Email Blast (QEB)

Editor: William P. Walsh
Executive Assistant: Judy Scharmann

Currently, the AESS QEB has been published 4 times per year and it is sent to AESS people by email on the first day of:
1. January
2. April
3. July
4. October

CONTENT

The QEB content consists of:

1. President’s Message
2. Society News
3. Conferences
4. Education
   a. EVTS
   b. Distinguished Lecturer Program
   c. GOLD for GOLD Lecturers
5. Industry Relations
6. Membership
   a. Awards
   b. Chapter News
   c. Student Activities
7. Publications
   a. Systems Magazine
   b. Transactions
   c. Tutorials
   d. Website
8. Technical Operations
PUBLICATION CYCLE

1st day of January, April, July, and October – the QEB will be published;

January 2 – March 15; April 2 – June 15; July 2 – September 15; October 2 – December 15 – Editor will solicit articles for publication. As articles are submitted, they will be edited and formatted.

March 15, June 15, September 15, December 15 – The editor will send all edited final articles to Executive Assistant for inclusion in the QEB.

March 28, June 28, September 28 and December 28 – The finished product will be sent to the Editor for final approval.

AIMS

- QEB is a fundamental tool to promote AESS among the youngest people (Student members, GOLD ones);
- In the scenario of different levels of membership, QEB is inserted in the basic version: in this way, people can have a VISION of AESS society;
- QEB is useful to anticipate the new articles to be published in the System Magazine;
- QEB is a useful tool to promote the GOLD and student activities;
- QEB promotes IEEE AESS Workshops and Conferences and to inform about open positions in Industry or Academy.

Notes

- Bill Walsh appointed Editor-In-Chief for QEB in January 2014
- Objective to provide links to articles and other items as part of a true electronic newsletter.
- Will tie into Systems Magazine News and Information.
- Interested in making QEB accessible through social networking.
QEB ISSUES

- April 2014 (Upcoming!)
- January 2014
- October 2013
- July 2013
- April 2013
- January, 2013
- October, 2012
- July, 2012
- April, 2012
- January, 2012
- October, 2011
- July, 2011
- April, 2011
- January, 2011
- October, 2010
- July, 2010
- April, 2010
- January, 2010
- October, 2009
Magazine Publication Leadership

Editors
Editor-in-Chief—Teresa L. Pace
Associate Editor-in-Chief—W. Dale Blair
Associate Editor-in-Chief—Maria Greco
Administrative Editor—William P. Walsh
Ass’t. Admin. Editor—Susanne J. Walsh
Editorial Consultant—David B. Dobson
VP Publications—Peter K. Willett
AESS President—Robert P. Lyons, Jr.
Executive Assistant, AESS—Judy Scharmann

Contributing Editors
Awards—Erwin C. Gangl
Book Reviews Editor—Darin Dunham
Conferences—Iram Weinstein
Distinguished Lecturers & Tutorials—Giuseppe A. Fabrizio
Education—Giuseppe A. Fabrizio
History—James Leonard
Standards—Richard Hochberg
Student Research—Richard Cooble, John Glass
Technical Panels—Roger Oliva
Tutorials Editor—Braham Himed
Website Updates—Judy Scharmann

Associate Editors and Areas of Specialty
Erik Blasch—Recognition, Tracking, Sensor & Assessments
Shirley Cheng—Guidance, Distributed Sensors, Fusion, Biometric
David Crouse—Sensors, Electro-Optics, Radar
Mauro De Sanctis—Space Communications and Electronics
Carles Fernandez-Prades—Position, Navigation, Timing
Maria Greco—Clutter Models, Radar, Signal Processing, Radar Systems
Moriba Jah—Astronautics, aeronautics
Haiying Liu—Fusion, Image Processing, Tracking
Ruhai Wang—Systems Engineering
Peter Willett—Tracking, Fusion, Signal Processing
Magazine Highlights

- **July 2013 - Special Issue on Standards**
  - Guest Editors: Dale Blair and Bill Walsh
  - 6 articles
  - Coincides with 30th Anniversary of IEEE 802 family of standards (ethernet, wireless, etc)

- **First history interview article in progress**
  - Interviewed: Dave Dobson
  - Author: Dale Blair
  - Interview held and recorded on video, April 2013 (issue with sound)
  - Need to re-do, in process

- **History article in progress**
  - "Beyond the Compass -- How Electronics Advanced Air Navigation"
  - Author: Ron Schroer – Past EIC and Current Editor
  - Review returned, waiting for revision

- **January 2014 - Special Issue on Wide Area and Staring SAR Radars**
  - Guest Editors: Brian Rigling and Steven Scarborough
  - 6 articles, longer than normal issue (64 versus 48 pages)

- **Summer 2014 – Special Issue on Signal Processing for Remote Sensing**
  - Guest Editors: Krzysztof Kulpa, Felix Yanovsky
  - Final paper has been approved, ready to go now

- **Early 2015 – Special Issue on Avionics Systems**
  - Direct response from Linked In discussion – our societies' readers' inputs incorporated
  - Guest Editors: Paul Kostek, William Walsh
  - 4+ papers submitted and being reviewed, first round still

- **Upcoming student mentoring article “Engineering in High School”**
  - Author: Bob Rassa, IEEE-AESS Sr. Past president
  - In process, nearly complete
Associate Editor Metrics

Dates: 4/1/2012 to 3/31/2014
These are our current Associate Editors.

This report reflects the timeliness of the editorial process by associate editor.

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IEEE Aerospace and Electronics Systems Magazine
Harry Mimno Award

Award Winner – 2011 Regular Paper
“A Low Cost Flight Simulator Using Virtual Reality Tools”
Ilkay Yavrucek, Eser Kubali and Onur Tamarici (Middle East Tech. Univ.)
April 2011, Vol. 26 No. 4, pp. 10-14

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. Citations are an important indicator of this.

Your input and nominations for 2012 will be gratefully accepted.
From scopus.com – more selective that google scholar – the most cited:

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An example of a Table of Contents
Teresa is always very good about writing an editorial for each monthly issue. Not easy.
Example of Student Highlight, from February 2014.

These would seem to be a high-impact way to connect with our members.
AESS BoG members are doing their part too. This is from Bob Rassa; however, many others of you are helping us a lot as well.
Beginning with the July 2014 issue, IEEE Aerospace and Electronic Systems Magazine will accept advertising, giving you the opportunity to reach this focused audience in their own monthly publication. Reaching more than 5,800 paid subscribers, your message will be seen by core members of the IEEE AES Society worldwide.

We are currently soliciting advertising for the Magazine. You may have noticed this flyer at the AESS booth at this conference.

Thanks to all of you who responded with suggestions and contacts for the commission-based IEEE advertising sales staff to contact.
Tutorials

• Editors:
  – Dr. Braham Himed, Air Force Research Lab, Sensors Directorate
  – Dr. W. Dale Blair, Georgia Tech Research Institute

• Published Tutorial Issue August 2013
  – Review of Range-Based Positioning Algorithms (Yan, Tiberius, Janssen, Teunissen, Bellusci)

• Five papers accepted and awaiting bundling to next issue(s)
  – Navigation Using Inertial Sensors (Groves)
  – Basic Tracking Using Nonlinear Continuous Time Dynamic Models (Crouse)
  – Basic Tracking Using Nonlinear 3D Monostatic and Bistatic Measurements, Part 1 (Crouse)
  – Basic Tracking Using Nonlinear 3D Monostatic and Bistatic Measurements, Part 2: Refractive Environments (Crouse)
  – Coherent MIMO Radar: The Phased Array and Orthogonal Waveforms (Davis, Showman, Lanterman)

• Two papers reviewed and corrections are being made
  – TOAs-Only Deinterleaving, a Constructive Review
  – JPDAF Versions and Implementations: Comparisons for Closely-Spaced Targets
• Invited four authors/papers – Awaiting submission into IEEE process
  – Synthetic Aperture Radar (SAR) Interferometry
  – Cognitive RF (jamming, radio, and radar) Sensing
  – Automatic Target Recognition and Classification
  – Over the Horizon Radar

• Predominance of radar detection and tracking papers
• Expanding to other topics – Power, sensor networks, position, navigation, and timing
• Actively soliciting additional authors/papers
• Collaboration with Transactions editors
  – Some papers get submitted to AES Transactions, but are clearly more suitable for Tutorial
Publications Report

AESS Board of Governors’ Meeting
May 22nd, 2014
Cincinnati OH
Peter Willett
Outline

• Strategic plan
  – update from officers’ meeting telecon
• Financials
  – First third of 2014, credit to Bill Walsh
• Transactions impact
• Magazine advertising
• Journal of Lightwave Technology (JLT)
• Publications “ownership”?
  – Conference publications
  – Website
• Insight from outside
• PRAC
• Motions from PSPB
Strategic: Transactions

- Strategic vision: Assure that Transactions are relevant, timely, and technically advanced
  - Goal: increase impact factor to 2.0 by 2016
    - EIC: improve timeliness, encourage special sections, increase selectivity
    - See charts later this presentation

- Strategic vision: improve financial impact
  - Goal: reduce costs
    - VP Pubs: estimate (contract) for 2014 is projected to be $284k, versus total $330k in 2013.
    - 2014 page budget reduced to 3200 (2013 actuals were about 2850 pages)
    - over-length page charges (>10 for regular and >6 for correspondence) has reduced per-article publication charges
Strategic: Transactions

- **Goal:** increase revenue
  - **VP Pubs:** collection of mandatory/voluntary page charges
    - These are the billed amounts:
      - October 2012: $38,600
      - January 2013: $22,100
      - April 2013: $20,500
      - July 2013: $22,800
      - October 2013: $24,000
      - January 2014: $31,600
      - April 2014: $35,800
    - It seems unlikely that all of these will be collected
    - Unfortunately an itemized list of collected fees is unavailable, so follow-up is not possible
  - **VP Pubs:** IEL revenue
    - Due to OA this is uncertain
Strategic: Magazine

- **Magazine**
  - Strategic vision: Make attractive, desirable, cover timely topics that are relevant
    - Goal: increase impact factor to 1.5 (not 1.0, done!) by 2016
      - EIC: Special issues, historical articles, interviews, reviews, student input, submitted vs. culled, appeal
      - VP Pubs: Proposal to allow articles to be presented at any AESS-sponsored conferences, similar to IEEE SP Letters
  - Strategic vision: improve financial impact
    - Goal: reduce costs
      - VP Pubs: vendor
    - Goal: increase revenue
      - VP Pubs: advertising
  - Strategic vision: Make sure printed tutorials are useful, informative, and up-to-date technically
    - Goal: one per year
      - EIC: solicit articles
## Transactions Impact

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<td>136</td>
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## Transactions Impact

### Top publications - Radar, Positioning & Navigation

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<th>Publication</th>
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<th>h5-median</th>
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<td>1. IEEE Transactions on Aerospace and Electronic Systems</td>
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<tr>
<td>2. IET Radar, Sonar &amp; Navigation</td>
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<td>30</td>
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<tr>
<td>3. IEEE Radar Conference</td>
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</tr>
<tr>
<td>4. GPS Solutions</td>
<td>20</td>
<td>31</td>
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<tr>
<td>5. IEEE/ION Position, Location and Navigation Symposium</td>
<td>18</td>
<td>22</td>
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<tr>
<td>6. IEEE International Conference on Ultra-Wideband</td>
<td>16</td>
<td>20</td>
</tr>
<tr>
<td>7. Workshop on Positioning, Navigation and Communication</td>
<td>14</td>
<td>26</td>
</tr>
<tr>
<td>9. European Conference on Synthetic Aperture Radar</td>
<td>14</td>
<td>19</td>
</tr>
<tr>
<td>10. International Conference on Indoor Positioning and Indoor Navigation (IPIN)</td>
<td>13</td>
<td>17</td>
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</table>

Data taken from Google Scholar, May 21\textsuperscript{st}, 2014.
Beginning with the July 2014 issue, IEEE Aerospace and Electronic Systems Magazine will accept advertising, giving you the opportunity to reach this focused audience in their own monthly publication. Reaching more than 5,800 paid subscribers, your message will be seen by core members of the IEEE AES Society worldwide.

Many IEEE societies use the IEEE’s advertising office. Examples include Vehicular Technology and Robotics and Automation.

• Approximately 50% of the revenue we make will be ours, the rest will go in commission and accounting.
• My feeling is that this may end up helping a little financially, but will be of greater impact in terms of service to our membership.
This is the second page of the advertising “flyer” that is available at this conference.

Including postage, etc. the magazine costs about $450 per page.

Note that there are “premium” pages, such as the back cover and the inside covers.

We will not sell advertising on the front cover.
Publications Ownership?

Abstract- This paper compares known long and short code sequence generation techniques with the author proposed arbitrary multidimensional code pattern synthesis and super high resolved code beams generation methods to obtain amplitude dependent performance function (rather than minimize SNR dependent exponential Pe). Furthermore, this paper compares spread-spectrum shaping techniques with the author proposed no sidelobe spectrum synthesis to obtain impulse correlation or multidimensional spectrum synthesis. This paper also explores the possibility of unifying arbitrary code spectrum generation technique with arbitrary no-sidelobe spread-spectrum synthesis.

Various molecular structures are also summarized in this paper to synthesize molecules with connections among its complex multidimensional components as atoms and sub-components. These maps are useful in material synthesis for super high speed
Publications Ownership?

Also (3/20/95), M C T = A (-high proposal support by window), M C Z = B (-work support by window selection). M C Y is written as (8/5/95) M C Π = A. By the Kastle law, the reversal occurs in the mirror solar company. A3.2 Low Resolution to Problem Resolution (1/92): In reverse (1) REBIRTH Method (3/93): M C O = Q and magnetically (contractually) 2, 3, 4 Growth process in the o’s. (2) POWER Law (3/93): Intermittent sound gun and discontinuous tab water shower can be made continuous by pressing the speed. Thus meteor trails can be made continuously utilized. SUN’s formula R I square = P (power heat dissipated) implies sun’s theory dropped from electronic world (7/92). (3) SUM Law (4/27/93): A + B = C, C = 3. Which one (A or B) is window selection. Fast listen to E. Slow person is among neighbors (11/4/95). (4) CERTAIN Law (1/94): MCF = H. Robotics is modern (mode M) (5/24/97). (5) IMPOSSIBLE Theorem (9/96): j times J = 1, J squared = 1. J means imaginary and . means typing second. j means apply (4/6/96). 2 High (4/10/94) vs. Low (center 4) 5 (code little man, 7/28/96). The high person (-life) and moving downward to typing second is the problem resolution (Behavior model (5/90) of K. Gupta, Thumb - production) Economics as unification of “business planners”). In reverse K’s (ARth) ideas (3/89) are spring (-aspirin), HOP (-FH) and shake (circularely). It appears bing-bang occurs when earth gets letter and drops, similar to apple drop from tree, (subsequently window selection assignment). Thus meaning of GRAVT can be explained. (6) “BUSINESS PLAN” Inclusion (3/7/97): $E_{Mc} = P = $Hammer squared. Geographic area (valley, plane, coast meaning 10/10/96) can be identified with the profession (accounting, electrical, fuse burn 11/96) (10/23/96).

From Radar Conference 1999
Thanks to Hugh for bringing this forth.

IEEE is leery of removing these papers since there is concern the author is serious

Larger question: Who “owns” conference publications?
- VP Pubs? VP Conferences?
- Who “owns” the AESS website?
- De facto it seems to be VP Pubs. That is no problem. But perhaps this ought to be in the governing documents?
Journal of Lightwave Technology

- Jointly sponsored by Optical Society of America and various IEEE Societies
- Mike Cardinale is our current AESS steering committee representative
  - Mike has done this for last 11 years, and this involves bi-annual telecons/meetings
- Require second representative
  - Transactions Associate EIC Michael Rice
- They will use our QEB to alert members to new issues

Published by:

- IEEE Aerospace and Electronic Systems Society
- IEEE Communications Society
- IEEE Electron Devices Society
- IEEE Instrumentation and Measurement Society
- IEEE Microwave Theory and Techniques Society
- IEEE Photonics Society
- IEEE Ultrasonics, Ferroelectrics, and Frequency Control Society
- Optical Society of America

Contacts

Editor-in-Chief
Peter J. Winzer
Alcatel-Lucent Bell Labs
Insight from Outside

• Willett is now editor-in-chief for IEEE Signal Processing Letters (SPL)
  – about 1800 submissions per year versus 600 for AES Transactions
  – acceptance rate around 20% versus 35% for TAES (which is pretty low too)
  – sub-to-pub is about 75 days
  – 4 pages plus at most one page of bibliography
  – IEEE “in house” publication
  – there is significant support for EIC from IEEE staffers in Piscataway, our EICs do it all themselves
The Wave Packet Transform associated with the Linear Canonical Transform

**Abstract**—In this paper, a new kind of wave packet transform (WPT) associated with the linear canonical transform (LCT) is proposed, this new WPT (WPTL) is defined based on the ideal of the LCT and the WPT. Some properties and physical meaning of the WPTL are investigated. In particular, we show a version of the resolution of the identity of WPTL. Moreover, the relationship between the WPTL and the Wigner distribution (WD) is derived. At last, we introduce the concept of the fractional wavepacketgram, which is defined as the modulus square of the WPTL. It is proved that the fractional wavepacketgram is a member of the Cohen class time-frequency distribution where the kernel is a scale dependent ambiguity function.

**Index Terms**—Wave packet transform, time-frequency distribution, linear canonical transform, Wigner distribution, ambiguity function.
Insight from Outside

• Website:
  – The ScholarOne (ManuscriptCentral) web submission tool is fine but in my opinion should not be the only option, as it is for in-house IEEE publications

• Open Access:
  – IEEE has not presently set the OA fees for letters or correspondence items any different from regular papers
  – presently $1750 for hybrid publications (most) and $1350 for all-OA publications
  – this is being finessed at IEEE by such people as Bill Emery
Insight from Outside

• Conferences:
  – IEEE is setting its face against re-publication of conference papers in journals
    • I do not think that IEEE has adequately thought through the financial impact this will have on conference income
  – SPL papers can be presented at any SPS conference (especially ICASSP, ICIP, Globecom) within one year of publication
    • no further review
    • registration fee paid
    • no further publication (no IEEEEXplore duplication)
PRAC

- Periodicals Review and Advisory Committee
  - every five years
  - for us in November 2014
- Much work in producing reports
- Actually it is a useful experience
  - advice from reviewers
  - reviewers are people like me, Lance, Dale and Teresa
  - lessons-learned go both ways
- Much work in producing reports
- Very important to remember:
  - Much work in producing reports
PSPB Motions

• There should be two sets of eyes, apart from the EIC who actually pulls the trigger, when an article is immediately rejected for technical (as opposed to administrative) reasons
  – Probably not all that relevant to us

• Conference publications are seen (?) to be as archival (IEEEXplore) as journal, so overlap should be minimal
  – no explicit percentage
  – there should be significant additional material
  – “?”: journals are reviewed in detail and checked
  – consider SP Letters model
  – perhaps future publications will be shorter abstracts?
AESS Publications Operating Budget

2014 Budget Expenses Summary

January - April 2014
Allen Press (AE-T) - $284,000
   - 1st year of 3 year contract for integrated services
   - Managing Editing, Copy Editing, Typesetting, XML tagging

Precision Computer Works (EJP) - $15,000
   - eJournal Database

Total for 2013: $299,000
   - Does not include IEEE-related expenses attributed to Transactions (e.g. various purchase services, XPLORE, etc.)
   - Comparative expenses for 2013: $330,007
   - EJP estimate covers work for Systems Magazine as well
AES Transactions
Expenses – Estimated vs. Actual

![Graph showing estimated versus actual expenses over months.]

- **Budget**
- **Expenses**

Month: January, February, March, April, May, June, July, August, September, October, November, December

Expense amounts:
- January: $0.00
- February: $0.00
- March: $0.00
- April: $50,000.00
- May: $100,000.00
- June: $150,000.00
- July: $200,000.00
- August: $250,000.00
- September: $300,000.00
- October: $350,000.00
- November: $400,000.00
- December: $400,000.00
2014 Budget Expenses Estimate
AES Systems Magazine

- Allen Press (AP-S) - $311,100
  - Publication & Delivery Services

- Susanne J. Walsh (SJW) - $35,000
  - Administrative & Asst. Admin. Editors

- David Dobson (DD) - $20,000
  - Editorial & Publication Consultant

- Total for 2013: $366,100
  - Does not include IEEE-related expenses attributed to Transactions (e.g. various purchase services, XPLORE, etc.)
  - Comparative expenses for 2012: $360,000 (Difference is 2% escalation for Year 2 of Allen Press contract).
  - SJW & DD estimate covers work for Transactions Journal as well
AES Systems Magazine
Expenses – Estimated vs. Actual

[Graph showing budget vs. expenses over months, with the budget consistently higher than the expenses.]
### Backup Slide

#### Summary of Expenses

<table>
<thead>
<tr>
<th>SYSTEMS</th>
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