

IEEE AESS Magazine Plans 2011-12

BoG Meeting
Princeton, NJ
Sept 2011

Overview

- Current Status of the Tutorials
- Current Status of the Magazine
- Plans forward for the Magazine

Tutorials

- Tutorial VI is still awaiting content
- Five papers awaiting revisions:
 - Poisson Point Processes
 - Joint Probabilistic Data Association Filter
 - Range-Based Positioning Algorithms
 - **Prognostics and Health Management (significant revisions)**
 - **Cognitive Systems Engineering (major revisions)**
- Four commitments for papers:
 - Aviation Information, Communications and Network Security
 - Graph Methods for Information Fusion
 - ATR Theory
 - Sonar Tracking
- Actively soliciting papers
 - Open call for papers
 - Need to consider joint online tutorials and tutorial papers
 - Any suggestions for topics and authors?
- Looking for a replacement editor

Citation Count - Tutorial

Tutorial	Year	# Papers	Average	High
V	2010	3	11.7	22
IV	2007	3	7	17
III	2006	3	26	44
II	2005	5	65.8	156
I	2004	4	110	214

- Predominance of radar and tracking papers
- Other topics – power, detection/classification, sensor networks, biometrics, and navigation
- Need to reinvigorate Tutorials with fresh topics

Quality Matters!

Magazine Status Currently

- Purpose
- October issue going to print
 - Pioneer Award on Cover (Jim Leonard)
 - No contributions from e-journal
- Fifty-four manuscripts pending
 - Issues need to be resolved regarding finding and assigning reviewers (half manuscripts held up because of this)
- Updated reviewer / search data base in e-journal
 - Key word search and organization updated by Shirley Cheng (AE)
 - Investigating opportunities for improvement of motivated individuals
 - Combine with Trans or other data bases?
- Added upcoming transaction papers in magazine
- Including more special issues and interview articles
 - Special Issue on Passive Radar (PCL) Upcoming
 - Guest editors Kushel and Farina
 - Still accepting papers
 - Interview article planned of Alfonso Farina by Maria Greco (AEIC)

Magazine

- Monthly telecons with Pubs and SMEB
 - Review upcoming issue content as well as
 - AE status
- Adding book review section
 - Considering nominations/volunteer for Book Review editor
- Created / updated guidelines for submission of various contributions
 - Guidelines for authors
 - Guidelines for book reviews
 - Guidelines for Harry Mimno award
 - Need to continue this
- Updating operating plan
- Developing a succession plan for EIC/AEICs
 - Includes development of Harry Mimno award nomination guidelines
 - Continuing access to IEEE Xplore
 - Google (and other) Scholar search engines for statistics tracking

Citation Count – Magazine

Magazine Year	# Papers	# Papers Cited	# Citations Total	Max # Cit per Paper
2010	87	25	79	22
2009	86	34	154	25
2008	123	29	148	18

- 48 pages per issue
- 12 issues/year (includes tutorials)
- Longer papers in 2009-10

- Data from Google Scholar
- From date of publication to present

- Magazine isn't necessarily well characterized by citations (meant not just for research) but this does show magazine is getting referenced
- Included radar, sonar, automotive, wireless comm, maritime border control, small business technology infusion, aircraft noise monitoring, system engineering environments...
- However, maximum citations typically come from radar papers (radar community may be more familiar with magazine currently?)

Quality Counts

Progress Since 2010

- 10 *New* Associate Editors in Various Areas of Specialty
- Associate EIC designated for succession plan
 - Maria Sabrina Greco
- Reviewed Industry feedback summary and Magazine feedback summary results to identify areas for improvement
- Requested magazine layout quote from Allen Press
- Archived magazines available for download on AESS website
 - Need to get word out and make more Visible on website
- Began requiring that all papers go through E-journal in order to track them and monitor statistics for ourselves and TAB Review Board
 - Including News and Information going to Susanne Walsh and Dave Dobson
 - Bill Walsh is starting to support Susanne Walsh with administrative duties allowing Dave to begin to step back some

Path Forward – What we DO know

- 4 Major Focus Areas for Improvement
 - Appearance, Selection of Material, Technical Quality, Reviewers
- Improve magazine **appearance**
 - Cover, paper, style, art, color figures
 - Prepare an AoA for trades to support budget
- Improve manuscript/article **selection** process
 - Transition from 80/20 hand selected vs ejournal to 20/80
 - Reduce workload of admin, less “conf only papers”
 - Improve tracking capability
 - Ensure papers included have been reviewed appropriately according to IEEE standards (a formal review process)
 - BoG need to recommend/submit at least one paper per year

Path Forward – What we DO know

- Improve magazine **technically**
 - Editorial board seeks out interesting papers
 - Including book reviews
 - Need book review editor
 - Invite papers from well respected researchers and practitioners
 - Ensure clear and concise guidelines for submissions (post on website and in e-journal)
 - Include interview articles (ex. Cary Spitzer, Alfonso Farina, Fenner Milton, Ron Driggers)
- Improve e-journal **reviewer** database by getting new and motivated reviewers (current database is antiquated)
 - *All BoG members are being added as reviewers (we appreciate your support!)*
 - Authors will be automatically submitted to reviewer database
 - Mature graduate students can be reviewers
 - Must make sure we recruit referees who understand and appreciate the publication process
 - Can we take advantage of SAMIEEE

Path Forward – What we DO know

- BoG involvement is critical
 - Reviewing magazine articles and content
 - Writing articles
 - Recruiting articles
 - VPs providing reports on their areas at least one a year
 - Presidential message on a regular basis (perhaps in each issue)
 - Reports from Technical Panels twice a year
 - Chapter activity reports
 - Recommend that Exec VP take on responsibility of Editor for Society News (*Bob Lyons supports whole heartedly*)

Path Forward – What we do NOT know or understand completely

- What is our trade space?
- Society magazine budget (constraints, limitations)
 - We have seen but do not fully understand
- Driving costs of the magazine
 - What is our current major cost?
 - Layout, Printing, Mailing?
 - What would be costs with Allen Press

So What Are Some Options?

1. No change in periodicity of hardcopy but make electronic versions available (like Spectrum) and improve appearance
 - 48 pages, 12 issues per year plus tutorials and historical articles
 - Transition to Allen Press
 - Color figures and cover, all digital (no scanning of figures), lighter paper, smaller text
2. Hard copy only with the above improvements
3. No hardcopy, only electronic
 - Newer generation comfortable with this but previous not as much

So What Are Some Options?

4. Bi-monthly option A

- Magazine stays same size (48 pages, 6 issues)
- Workload, printing, and mailing costs are possibly reduced
- Physical content to readers is decreased

5. Bi-monthly option B

- Magazine size doubles (96 pages, 6 issues)
- Workload and printing costs remains same
- Mailing costs are reduced
- Physical content to readers stays same

Publication Recommended Path

- In a perfect world (no constraints on any resources – budget, time, manpower) -> Pubs would recommend **Option #1**
- Unfortunately, not a perfect world so we need to trade costs vs improvements
 - Solicit advertisers?
 - Print fewer extra issues (reduces number of issues sent to potential chapters, conferences, etc) ?
 - Fewer issues?, Fewer pages?
 - Min(budget) while Max (appearance)
- Optimization can go on forever but that is NOT our plan...Sometimes an 80% solution is good enough
- Plan to:
 - Collect info from board and Allen Press
 - Draw a line in the sand
 - Provide a single path forward
 - Path must be feasible (implementable) by 2013
 - Optimize appearance without exceeding the budget
 - Present “good” solution no later than spring BoG meeting

Allen Press Quote Items

- General administration?
- Article selection outside of e-journal (i.e. confs from IEEE Xplore)
- Typesetting
- Selection and/or creation of Cover Art related to magazine article
- Printing/Production (number of issues, page count, cover costs)
- Paper type
- We are looking for something similar to Instrumentation and Measurement Magazine

Instrumentation and Measurement Magazine is a Great Example

- Already supported by AESS in conjunction with the IEEE Instrumentation and Measurement Society
- Managed by Allen Press
- Advertisement sales handled by Allen Press
- Has 8 advertisement pages in August 2011 issue
- 64 light pages vs 48 heavy pages (current AES mag)
- Color figures
- Cover related to paper in the magazine
- Small characters -> more information
- Let's use this as a baseline and go from there

- Lance moves that the Pubs Team provide an analysis of alternatives by February 2012 to analyze the cost/benefit of various options for the Magazine, i.e., number of pages, advertisements, and number of issues; and provide a recommendation from those options.

Backup

For Reference

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

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