

The New AESS “Systems” Magazine

Peter Willett

VP Publications Report¹

AESS Officers’ Meeting January 2012

¹ The Transactions², Tutorials & QEB are doing quite nicely.

² We need a Business Editor, though.

What's New?

- First, an acknowledgement:
 - EIC Teresa Pace
 - Associate EIC Maria Greco
 - Associate VP Publications Dale Blair
 - Judy, Dave, Susanne, Bill and many many more ...
- Original material:
 - in previous years we were content-starved
 - about 70% of Systems material was culled from our conferences ... good papers, but not new
 - website statistics:
 - 2011: 136 submissions (52% acceptance rate)
 - 2010: 84 submissions (32% acceptance rate)
 - 2009: 52 submissions (41% acceptance rate)
 - 2009: 53 submissions (50% acceptance rate)
- Layout:
 - removal of abstracts
 - rationalization of cover art versus inside material

- Organization:
 - associate editors are assigned to technical areas
 - some AEs have been replaced (performance issues)
 - EIC checks for “lost souls” regularly
 - EIC gives guidance to AEs on review practices
 - EIC’s “Turning a Conference Paper to a Magazine Article” editorial
- Monthly teleconferences
 - many (most?) associate editors from the Magazine call in and participate – for more than an hour!
 - led by Teresa, with help from Dale
 - posting of upcoming articles and issues on the web
 - see layout
 - catch mistakes (yes, there are some still)
 - thanks to Judy and Susanne for this



IEEE AEROSPACE & ELECTRONIC SYSTEMS SOCIETY
WELCOME TO THE AESS



READY FOR PUBLICATION

Home » AESS Documents

- 2011 December Issue
- 2011 November Issue
- 2012 February Issue
- 2012 January Issue
- 2012 March Issue



2012 JANUARY ISSUE

Home » AESS Documents

Name ^	File Type	Size		
Canadian - Jan 2012	application/pdf	1.73 MB		
Defense - Jan 2012	application/pdf	4.06 MB		
Essentials - Jan 2012	application/pdf	310.17 KB		
London - Jan 2012	application/pdf	6.22 MB		
Low Power - Jan 2012	application/pdf	2.27 MB		
Optimized - Jan 2012	application/pdf	620.23 KB		

< 2012 February Issue up 2012 March Issue >



Society News

Canadian Tracking and Fusion Group (CTFG) Workshop 2011

The Canadian Tracking and Fusion Group (CTFG) was established to bring together tracking and fusion researchers and practitioners from across government, industry, and academia with the objective of providing a forum for issues of common interest across diverse fields of application, including land, air, space, maritime, and underwater. Annual workshops are held to promote discussion and collaboration.

The CTFG Workshop 2011 was held March 9-11, 2011 in Ottawa, bringing together 57 individuals from 21 organizations for presentations, discussion, and collaboration. Participants included government from several Defence R&D Canada (DRDC) Centres (Ottawa, Atlantic, and Valcartier), and the Communications Research Centre, academia from McGill University, McMaster University, Memorial University, Royal Military College, and the University of British Columbia, with a broad spectrum of industry representatives.

The workshop was supported by the IEEE Ottawa Section, the IEEE AESS Chapter, IEEE SP/OE/GRS Joint Chapter, Raytheon Canada, and Larus Technologies. It was co-hosted by DRDC.

OVERVIEW

The workshop was welcomed by Doreen Dyck, head of Radar Systems Section, DRDC. A plenary presentation was given by IEEE Fellow Fred Daum of Raytheon's Integrated Defense Systems (IDS) on developments in industrial strength particle filters and, in particular, his exact flow-based particle filter which works well in high-dimensional space. The workshop focused on five areas of research including: target tracking, radar beam scheduling, sensor management, communications, and decision support. In addition, four working panels were established and many research areas and available data sets for future collaboration were identified.

WORKSHOP HIGHLIGHTS

Target Tracking and Sensor Management (Day 1)
 This Kirubarajan of McMaster University presented methods of target tracking in clutter and estimation analysis



Attendees of CTFG Workshop 2011

of manoeuvring targets. He also gave a demonstration of numerous tracking methods developed at McMaster over the years.

In the afternoon, Erik Blasch, a visiting scientist to DRDC from the US Air Force Research Laboratory (AFRL), provided an invited lecture on joint data and sensor management for persistent surveillance. This was followed by four presentations on radar resource management and meta-level tracking methods, given by Zhen Ding of DRDC, Vikram Krishnamurthy of the University of British Columbia, and Alain Gosselin of Royal Military College. Garfield Mellem and Chunsheng Liu, both of DRDC, separately presented sonar tracking problems and solutions. Two McGill University graduate students, Denis Ustehay and Frederic Thoinin, and their supervisors, Mark Coates and Michael Rabbat, delivered presentations on distributive particle filter methods and tomographic target tracking methods.

The day ended with a panel discussion focussing on target tracking, available data sets, and potential collaboration opportunities.

HOME	ABOUT THE AESS	CONFERENCES	EDUCATION	MEMBERSHIP	PUBLICATIONS	TECHNICAL OPERATIONS
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PRIVATE PUBLICATIONS

Home » AESS Documents

Documents for Publication members.

- Book Review
- December 2011 Telecon Documents
- January 2012 Telecon Documents
- Misc Documents
- November 2011 Telecon Documents
- October 2011 Telecon Documents
- Quarterly Email Blast
- Ready for Publication
- September 2011 Telecon Documents

< Publications

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Book Review >

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Editorial Board

You may access Magazine Editorial Board Documents at the following location:

Private Publications

Announcements

Press Conference held - ESTEL 2012 Conference Presentation
 Wednesday, January 11, 2012 - 06:50

Ram Gupta Receives MGA Leadership Award
 Wednesday, December 28, 2011 - 03:24

Quality of Life Panel Event
 Friday, December 9, 2011 - 07:19

1 of 6 >>

Calendar

January						
S	M	T	W	T	F	S
1	2	3	4	5	6	7
8	9	10	11	12	13	14
15	16	17	18	19	20	21
22	23	24	25	26	27	28
29	30	31				

Upcoming Events

AESS Officers' Strategic Planning Meeting
 Saturday, January 21, 2012

2012 IEEE Aerospace Conference
 Saturday, March 3, 2012

- Special Issues

- Passive Covert Radar (Heiner Kuschel & Alfonso Farina, July 2012)
- Internetworking and Resource Management in Satellite Systems

#	AE	Corresponding author	Title	Status
SYSAES-201100062	Farina	O'Hagan	A multi-frequency hybrid passive radar c...	Revise and re-review (extensive revision needed; should be re-reviewed.)
SYSAES-201100068	Farina	Olsen	Performance of a Multiband Passive Bista... Part II	1st round review 2011-08-31
SYSAES-201100130	Farina	Brown	Passive Bistatic Radar Experiments from ...	1st round review 2011-10-24
SYSAES-201100070R	Farina	Falcone	Potentialities and challenges of WiFi-based passive radar	Accepted
SYSAES-201100072	Farina	Poullin	Passive 3D tracking of low altitude targets using DVB (SFN) broadcasters exploitation of the elevation angle estimation using DVB-T : experimental results	Revise and re-review (extensive revision needed; should be re-reviewed.)
SYSAES-201100071	Kuschel	Poullin	Elevation angle estimation for low altit...	1st round review 2011-09-01
SYSAES-201100073	Kuschel	Conti	High Range Resolution Multichannel DVB-T Passive Radar	1st round review 2011-09-02
SYSAES-201100115	Kuschel	Misiurewicz	Suboptimal Space-Time Processing Approac...	1st round review 2011-10-29
SYSAES-201100067	Kuschel	Olsen	Performance of a Multiband Passive Bista... APart I	1st round review 2011-08-31
SYSAES-201100093	Kuschel	Fulcoli	Use of Graphics Processing Unit for Passive Radar Signal.....	Accepted

Expected end of 1st round of review: March 15 2012
 Expected end of 2nd round of review: April 15 2012
 Expected issue of publication: July 2012

- Features:
 - Systems EIC editorials
 - AESS Officers editorial
 - society news
 - *timely* conference notices
 - linkage with Transactions (editorials, upcoming articles, awards)
- Initiatives:
 - historical interviews
 - book reviews (solicited)
 - student research editors (John Glass & Rick Coogle)
 - solicitation of conference reports
 - submission of *improved* conference articles that are identified as “best papers” in AESS conferences
 - advertising (wait on this)
 - all submissions (even “news”) through EJP website

What is Proposed?

- New single vendor for publication services
 - Allen Press
 - ideally: by July 2012 issue
- Maintain current issue and page count
 - the Magazine – along with the QEB – is the main *regular* way we communicate with our members
 - we can revisit this later, but right now it appears that we have the momentum for a first rate *monthly* publication
 - we will save money and offer a better product

Present Vendors

	Vendor	\$ Per Year	\$ Per Issue	\$ Per Page
Web Hosting	PCS (EJournal Press)	7500	625	12
Composition	Prototype	150000	12500	240
Manufacture	Victor Graphics	109000	9083	174
Mailing	APC & CAC-DMS	155000	12917	248
Total		421500	35125	675

- 12 issues, 52 pages per issue
- Exclusive of administrative costs: approximately \$50000

Proposed Vendors

	Vendor	\$ Per Year	\$ Per Issue	\$ Per Page
Web Hosting	PCS (EJournal Press)	7500	625	12
Copy Editing	Allen Press	30000	2500	52
Composition	Allen Press	42000	3500	73
Manufacture	Allen Press	48000	4000	83
Mailing	Allen Press	155000	12917	248
Total		282500	23542	490

- Approximate figures based
- November preliminary quote
- Awaiting response to RFQ
- 12 issues, 48 pages per issue
- 5300 copies
- Mailing assumed same cost, but perhaps lower because lighter

Proposed Vendors with Buffer

	Vendor	\$ Per Year	\$ Per Issue	\$ Per Page
Web Hosting	PCS (EJournal Press)	7500	625	12
Copy Editing	Allen Press	30000	2500	52
Composition	Allen Press	42000	3500	73
Manufacture	Allen Press	48000	4000	83
Mailing	Allen Press	155000	12917	248
Buffer	Dave Dobson	30000	2500	52
Total		312500	26041	543

- Approximate figures based
- November preliminary quote
- plus Dave's best guess
- Awaiting response to RFQ
- 12 issues, 48 pages per issue
- 5300 copies
- Mailing assumed same cost

Advantages of new vendor

- Nicer “look and feel”
 - better typesetting, more appropriate paper
 - cover art will reflect material inside
 - color
- Equations (not too many!) supported
- Single-vendor point of contact
- Better robustness (large vendor)
- Cheaper
- Same vendor as Transactions
 - good experience
 - common point of contact (Rita Janssen)
- Continuity
 - author interface
 - administrative editor

Concerns

- Uncertainty
- IEEE “outside vendor” rules:
 - would need PSPB approval (potential delay of years)
 - would need to get two outside quotes, plus IEEE inside quote
 - would need to pay penalty equal to two years of IEEE costs
- Our interpretation of these rules is that they do not apply to AESS, since we are already “outside”

From the PSPB Manual

8.4.4 Publication of Periodicals Outside the IEEE. Publication of periodicals outside the IEEE is permitted only with the approval of PSPB and the Board to which the sponsoring Organizational Unit reports. Approval shall only be granted when the conditions below have been met. Periodicals that are published under the supervision of IEEE staff are defined as published inside the Institute. All others are considered to be published outside the Institute. Periodicals that are not published under the supervision of IEEE staff are termed as being published “Outside the IEEE.”

- A. The sponsoring Organizational Unit shall submit a written proposal for such publication, with which the relevant Director concurs.
- B. There shall be a potential distinct cost or time advantage for comparable quality, or if the expected advantage is other than cost or time, that expected advantage shall be stated in the proposal.
- C. Quotations shall be obtained from at least two sources other than the IEEE for editing, composition, printing, and distributing the periodical.
- D. The sponsoring Organizational Unit shall have a functioning broad-based publishing organization, including a Publications Committee, an Editor, and Associate Editors, or equivalent.
- E. The above publishing organization shall have demonstrated proven performance capabilities and knowledge in the publications field.
- F. If possible, the transition to outside publication shall start with the first issue of the calendar year.
- G. An annual review shall be made for three years after a transition to publication outside IEEE is made and thereafter at least every five years, with more frequent review at the discretion of PSPB.
- H. All contracts for outside publication shall be handled through the IEEE Publications department. (Sponsoring Organizational-Unit officers may make initial, exploratory negotiations, but the final documents are subject to review by and signature of the Staff Executive - Publications, or his or her designated agent.)
- I. The sponsoring Organizational Unit shall continue to pay its appropriate share of the fixed costs established for the IEEE Publications department for a period of three years following withdrawal from the use of the IEEE Publications-department services for the publication of Organizational-Unit periodicals. The schedule of said fixed costs per page shall be determined by the Staff Executive - Publications. It shall reflect the then current conditions in the IEEE Publications department and shall receive the approval of PSPB. Then, the sponsoring Organizational Unit shall pay its fee according to the sliding scale as follows.
 - 1) In year two of the three-year recovery period, the fee is based on the number of pages currently published by the periodical times the fixed cost per page.
 - 2) In year two, the fee will be 2/3 of the annualized fixed costs.
 - 3) In year three, the fee will be 1/3 of the annualized fixed costs.

In summary, the total is equal to fixed costs for two years. Any services of the IEEE Publications department in connection with the transition to outside publication, or required to correct deficiencies in the performance of the outside publisher, will be billed separately and shall be an additional responsibility of the sponsoring Organizational Unit. Revisions to Section 8.4.4 – Publication of Periodicals Outside the IEEE, as contained in this manual, require the review and approval of the IEEE Board of Directors, using the process in accordance with IEEE Bylaw I-300.4(5).