

# **PUBLICATIONS ACTIVITIES BOARD**

October, 2002

# Outline

- Publication Rankings
- Co-sponsored Publications
  - Review agreements
- Advertising
- Survey results
- Proposal for new Transactions
- TRA report
- Magazine report

# Publication Rankings

Journal Abbreviation	2001 Rank	2001 Total Cites	Impact Factor	Immed. Index	2001 Articles	Cited Half-life
IEEE Contr Syst Mag	1	827	1.644	0.154	26	6.7
Management Science	2	6177	1.502	0.224	116	>10.0
IEEE Trans ROBOTIC & AUTOM	3	2916	1.375	0.092	98	8.2
IEEE T. Automa Contr	4	9911	1.222	0.017	282	9.8
Computer Aided Design	5	1543	1.048	0.145	83	7.1
INT J ROBOT RES	6	1469	1.045	0.061	49	>10.0
IEEE T. Contr Syst T	7	748	0.889	0.062	81	5.0
IEEE T. Ind Appl	8	3037	0.847	0.159	220	7.6
IEEE ROBOT & AUTOM MAG	9	130	0.824	0.053	19	4.4
Operations Research	10	3608	0.813	0.132	76	>10.0
IEEE T SYST MAN CY B	11	497	0.789	0.063	95	4.0
AUTON ROBOT	12	192	0.760	0.211	57	4.1
J PROCESS CONTR	13	313	0.753	0.020	51	4.6
IEEE T. Ind Electron	14	1276	0.739	0.073	150	6.3
IEEE-ASME T MECH	15	193	0.696	0.018	55	3.9
IEEE T. Semiconduct. M.	16	533	0.676	0.071	42	6.0
IEEE T. SMC, C	17	122	0.670	0.000	39	3.0
IEEE T. SMC, A	18	313	0.582	0.000	50	3.8
ROBOT AUTON SYST	19	345	0.544	0.000	62	4.6

# Publication Rankings

Journal Abbreviation	2001 Rank	2001 Total Cites	Impact Factor	Immed. Index	2001 Articles	Cited Half-life
J ROBOTIC SYST	20	575	0.505	0.078	64	7.6
Lab Robotics Autom. 0895-7533	21	110	0.494	--	--	3.7
J. Mech Design 1050-0472	22	950	0.486	0.000	86	7.0
ROBOT CIM-INT MANUF	23	173	0.456	0.020	49	5.7
INT J PROD RES	24	2667	0.438	0.031	224	8.9
ASME J DYNAM SYST, MEAS, & CONTL	25	1163	0.392	0.019	105	8.4
INT J ADV MANUF TECH	26	393	0.39	0.028	216	4.6
ASME J OF MANUF SCI	27	385	0.356	0	93	4
ROBOTICA	28	303	0.346	0.063	63	5.4
INT J COMPUT INTEGR MANUF	29	259	0.341	0.044	45	6.9
J. Mechatronics	30	172	0.337	0.017	59	5.1
SME J MANF SYS	31	449	0.324	0.111	18	8.2
II E Trans 0740-817X	32	1190	0.313	0.000	19	>10.0
J INTELL ROBOT SYST	33	158	0.298	0.017	59	4.4
INT J FLEX MANU SYS	34	152	0.222	0.222	18	7.6
ADV ROBOTICS	35	129	0.111	0.019	54	6.1
IND ROBOT	36	72	0.105	0	91	
Assembly Automation	37	51	0.055	0.053	76	--

# Co-sponsorship Activities

- Intelligent Transportation Systems
- Mechatronics
- Micro Electro Mechanical Systems
- Mobile Computing
- Nano-Bioscience
- Nano Technology
- Sensors

# **Intelligent Transportation Systems Council**

# ITS Council

- Two representatives from each of the following societies:
  - Aerospace and Electronic Systems
  - Antennas and Propagation
  - Communications
  - Computer
  - Electromagnetic Compatibility
  - Electron Devices
  - Industrial Electronics
  - Instrumentation and Measurement
  - Microwave Theory and Techniques
  - Power Electronics
  - Reliability
  - Robotics & Automation (Stefano Stramigioli & Katsushi Ikeuchi)
  - Signal Processing
  - Systems, Man & Cybernetics
  - Vehicular Technology

# ITS Council

- The Council will determine the dues from the supporting societies
- The Council will determine whether or not to distribute surpluses to supporting societies
- Distribution of surpluses or payment of deficits will be prorated according to membership duration
- If no representative at AdCom meeting & inactive for a year, member soc. may be dropped
- Member societies may withdraw if they choose
- RAS Representatives -- Stefano Stramigioli & Katsu Ikeuchi



# ITS Transactions

- Pages per year
  - 2001 – 240
  - 2002 – 360
  - 2003 – 250 budgeted

- Acceptance rate – 20%

■ Year	Income	Expense	Net
2001	\$ 340,700	\$ 284,900	\$ 55,800
2002	\$ 238,400	\$ 158,900	\$ 79,500

# **IEEE/ASME Transactions on Mechatronics**

# Transactions on Mechatronics

## ■ Financial Estimate

### ● 2002

◆ Income	279.7
◆ Expenses/Reimbursements	229.5
◆ Total Net	50.2

### ● 2003

◆ Income	285.5
◆ Expenses/Reimbursements	215
◆ Total Net	70.5

● Cumulative projected through 2003 = 345.8

# Transactions on Mechatronics

## ■ Subscriptions as of September 2001

● IES	456
● LEOS	84
● RAS	746
● Interdisciplinary	109
● ASME	231
● Non Members	102
● ASPP	650
● Total	2380

# IEEE TAB Periodicals Review

- November 14, 2001
- Review approved by TAB in June 2002

# Transactions on Mechatronics

## – Agreement Status –

- Orig. agreement signed in 1995 between IEEE (for IES) and ASME (one division)
  - Supplementary agreement between RAS and IES to be equal partners within IEEE
  - Each organization shall retain its own member and non-member subscription income
  - Three representatives per society.
    - ◆ Voting rules allow any one society to block actions.
  - “IEEE and ASME will market the Transactions in accordance with their own mechanisms.”
  - Modification must be by both IEEE and ASME

# Transactions on Mechatronics

## – Agreement Status –

- Unsigned modified agreement in 1997
  - ASME Dyn. Systems & Control Div., IEEE IES & RAS
  - Three representatives each – 7/9 vote required
  - Each organization shall retain its own member and non-member subscription income
  - “IEEE and ASME will market the Transactions in accordance with their own mechanisms.”
  - 50% of all net proceeds or liabilities will be divided equally among IES, RAS and ASME.
  - Modification must be by both IEEE and ASME

# Transactions on Mechatronics

## – Agreement Status –

- Unsigned modified agreement in May, 1999
  - ASME Dyn. Systems & Control & Design Divisions; IEEE IES and RAS
  - Three representatives each – 10/12 vote required
  - Each organization shall retain its own member and non-member subscription income
  - “IEEE and ASME will market the Transactions in accordance with their own mechanisms.”
  - 50% of all proceeds or liabilities will be divided equally among IES, RAS, DS & Cont & Des.
  - Modification must be by both IEEE and ASME



# Transactions on Mechatronics

## – Committee Actions –

- May, 1998 meeting
  - Surplus designated “\$22,400 each for IEEE/IES, IEEE/RAS, and ASME/DSCD”
- May, 1999 meeting motion
  - “the surplus for 1998 be distributed as per the previous agreement, equally between IEEE/IES, IEEE/RAS, and ASME/DSCD (1/3 each)”
  - This was the implementation of May, 1998 motion

# Transactions on Mechatronics

## – Committee Actions –

- April, 2001 meeting
  - “50% of the revenue generated through 1999 will be distributed among the societies/divisions according to the Agreement: IES \$79.6K, RAS \$44K, and ASME/DSCD \$44K.”
  - This appears to be another statement to implement previous motions.

# Transactions on Mechatronics

## – Current Actions –

- IES and IEEE object to paying ASME
  - ASME asked to return check, ASME complies
- IES and IEEE argue only the original 1995 signed agreement is valid
- Decide to have committee resolve agreement issues.
  - Representation uncertain

# Motion on Mechatronics

- Whereas the Management Committee of the Transactions on Mechatronics, acting in good faith, approved modified agreements in 1997 and 1999 allocating a portion of the net income to ASME, as shown in the notes below, and adding the Design Division of ASME as a co-sponsor, the RAS AdCom hereby retroactively ratifies these agreements and reconfirms its confidence in the actions of the committee. Further, the AdCom expects that the Agreement will be revised and brought to the AdCom as expediently as reasonably feasible to clarify the agreement and resolve outstanding issues.

# Key aspects of the 1997 Agreement

“The management of the Transactions shall be vested in a management committee (hereafter "committee") composed of three members from ASME Dynamic Systems and Control Division (DSCD), three members from IEEE Industrial Electronics Society (IES), and three members from IEEE Robotics and Automation Society (RAS); a non-voting Editor-in-Chief and a non-voting Editor-elect.

“All net proceeds or liabilities beginning in 1998 will be divided equally between IEEE/IES, IEEE/RAS, and ASME/DSCD equally ( 1/3 each). 50% of net positive proceeds each year will be distributed to the societies and 50% will be retained as an operating fund for the Transactions.

# Key aspects of the 1997 Agreement

“In 1997, 50% of the net proceeds will be shared equally (16 2/3 % of the total each) between the three societies and left in the operating fund for the Transactions. The remaining 50% will be distributed to the societies, twice as much going to IEEE/IES (25% of total) as to IEEE/RAS and ASME/DSCD (12.5% of total each).”

# Key aspects of the 1999 Agreement

“The management of the Transactions shall be vested in a management committee (hereafter "committee") composed of three members from ASME Dynamic Systems and Control Division (DSCD), three members from ASME Design Division, three members from IEEE Industrial Electronics Society (IES), and three members from IEEE Robotics and Automation Society (RAS); a non-voting Editor-in-Chief and a non-voting Editor-elect.

“All net proceeds or liabilities beginning in 2000 will be divided equally between IEEE/IES, IEEE/RAS, ASME/DSCD, and ASME/DED equally ( 1/4 each). 50% of net positive proceeds each year will be distributed to the societies and 50% will be retained as an operating fund for the Transactions.

# Key aspects of the 1999 Agreement

“All net proceeds or liabilities from 1998 to 2000 will be divided equally between IEEE/IES, IEEE/RAS, and ASME/DSCD equally ( 1/3 each). 50% of net positive proceeds each year will be distributed to the societies and 50% will be retained as an operating fund for the Transactions.

“In 1997, 50% of the net proceeds will be shared equally (16 2/3 % of the total each) between IEEE/IES, IEEE/RAS, and ASME/DSCD, and left in the operating fund for the Transactions. The remaining 50% will be distributed to the societies, twice as much going to IEEE/IES (25% of total) as to IEEE/RAS and ASME/DSCD (12.5% of total each).”



# **MEMS**

**Richard S. Muller, Editor-in-Chief**

# MEMS

## ■ Sponsoring societies

- EDS
- IES
- RAS
- ASME

## ■ 2001 subscription data

● EDS	1601
● IES	140
● RAS	323
● Non-soc. Members	492
● IEEE non-members	898
● ASME	unknown

# MEMS

- Managed by a six person Coordinating Committee
  - Three members each from ASME & IEEE
  - No statement of how the three in IEEE are selected from the three member societies
  - Two meetings per year
- RAS representatives: Drs. Arai, Dario & Nelson
  - Given Agreement, there should probably be just one RAS representative
- 50% ASPP income to Journal budget

# MEMS Status

## ■ 2002 status

- Page budget 630; move to 700 for 2003
- Number of issues: 6
- Increase non-member page charge from \$325 to \$370
- Members: 2184 → 2318
- Student members: 173 → 184
- Individual non-members: 168 → 177

## ■ Financial status

- ~\$251,300 reserve at end of 2000
- ~\$105,400 reserve for 2001
- IEEE reduction in reserves – TBD

# Mobile Computing

- **Technical co-sponsorship**
  - **No financial involvement**
- **RAS Representative -- TBD**

# Mobile Computing

- RAS can nominate one Assoc. Editor
- RAS members can subscribe at member rates
- RAS promote Mobile Computing through Magazine
- TMC publish announcements of RAS events as space available

# **Nano Technology Council**

# Nano Technology Council

## ■ Sponsoring Societies

- Aerospace & Electronic Systems
- Antennas & Propagation Society (AP)
- Circuits & Systems Society (CAS)
- Communications Society (CAM)
- Components, Packaging, & Manufacturing Technology Society (CPMT)
- Computer Society (C)
- Control Systems Society (CS)
- Electron Devices Society (ED)
- Engineering in Medicine & Biology Society (EMB)



# Nano Technology Council

- Sponsoring Societies (Cont'd)
  - Electromagnetic Compatibility Society (EMC)
  - Industrial Electronics Society (IE)
  - Instrumentation & Measurement Society (IM)
  - Lasers & Electro-Optics Society (LEO)
  - Magnetics Society (MAG)
  - Microwave Theory & Techniques Society (MTT)
  - Reliability Society (RL)
  - Robotics & Automation Society (RA)
  - Systems, Man, & Cybernetics Society (SMC)
  - Ultrasonics, Ferroelectrics, & Frequency Control Society (UFFC)

# NTC

- Approved as a council in February, 2002
- 19 member societies
- Financial support comes from Periodical, Book and IEEE Press publication sales, Conference surplus, and allocations from sponsoring soc.
- 2 representatives on AdCom per member society
  - RAS representatives – Steve Hsia, TBD
- If no representative at AdCom meeting & inactive for a year, member soc. may be dropped
- No statement of distribution of surplus

# NTC Transactions

- 400 pages per year
- 109 submissions in first 9 months
- Subscriptions around 700
- Joint special issues planned with ED-S and CAS-S
- Financial information – too early

# **NanoBioscience**

# Transactions on NanoBioscience

## ■ Sponsoring Societies

- Engineering in Medicine and Biology Soc. – 60%
- Computer Society – 20%
- Robotics & Automation Society – 10%
- Neural Networks Society – 5%
- Nanotechnology Council – 5%

## ■ Profit/loss distributed annually

# Transactions on NanoBioscience

## ■ Steering Committee

- EMBS – 6 voting members
- CS – 2 voting members
- RAS – 1 voting member
- NNS – 1 voting member
- NTC – 1 voting member
- SMC – 1 non-voting member
- EIC – non-voting member

■ RAS Representative – Deirdre Meldrum

# **IEEE Sensors Council**

# Sensors Council

- 26 member societies
- Financial support comes from Periodical, Book and IEEE Press publication sales, and from Conference surplus
- 1 representative on AdCom per member society
  - RAS representative – Vladimir Lumelsky
- If no representative at AdCom meeting & inactive for a year, member soc. may be dropped
- Distribution of surpluses or payment of deficits will be prorated according to membership duration – no statement how to decide to do so



# **IEEE Sensors Journal**

**Vladimir Lumelsky, Editor-in-Chief**

# IEEE Sensors Journal

[http://www.ieee.org/sensors/Sensors\\_journal.htm](http://www.ieee.org/sensors/Sensors_journal.htm)

- **Started in 2000; first issue – June 2001**
- **Editorial Board: EiC - Vladimir Lumelsky;**
  - 24 Associate Editors from 11 countries
- **Subscription: about 1,100 libraries, 2,500 individuals**
- **Page budget :**
  - 2001: 420 pages, 4 issues - done
  - 2002: 720 pages, 6 issues – expect OK
  - 2003: 924 pages
- **Submissions (by June 1'02); healthy so far:**
  - 415 manuscripts total
  - 310 via on-line portal
  - 66 papers published

# Sensors Journal -- Special Issues

- **Electronic Nose Technology** - 15 papers, appeared June 2002
- **Integrated Multisensor Systems & Signal Processing** - 2003
- **Optical Fiber Sensors** - 2003
- **Biosensors** - 2003
- **Sp. Issue on Sensors'02 Conference** - 2003

# Conflict of Interest

- Have had experiences with papers from a conference being published verbatim in a non-IEEE publication
  - Apology received from Elsevier
- The PAB recommends to Conference Board that all conference organizers be asked to include a paragraph inviting authors of accepted papers to submit expanded version to appropriate IEEE journal
  - Paragraph wording reviewed and accepted by IEEE legal
- Annual request for info on potential conflicts

# Recommended Wording

As you know, the IEEE publishes a number of archival journals in the fields covered by this conference. You should also know that the IEEE much depends on channeling the intellectual property that appears in its sponsored conferences to IEEE journals. If you believe that an expanded version of your paper is suitable for journal publication, and if you believe, as we do, that our loyalty should go first to our own non-profit professional society, please consider, for example, the IEEE <journal list relevant to conference—each with url> as an appropriate venue. Please reflect the reviewer comments in your extended manuscript. If submitted, your paper will go through the regular peer review process conducted by the corresponding Editorial Board. And, of course, in this case you will not need to make the usual copyright permission request from IEEE, whereas for publication in non-IEEE journals you would normally need to explicitly request copyright permission from IEEE for any portions of your conference paper that are repeated verbatim.

# Advertising

- \$30,000 -- \$40,000 per year
- Currently 12% -- 15% commissions
- IEEE provides limited visibility & prints rate cards
- In future, IEEE will provide nothing unless we take their “full service”
  - 51% of revenue charges
- We will go it alone for a year to see how well we can do.

# Survey Report

- Separate report

# **Proposal for New Transactions**



# TASE Activity

- Full proposal written, except for financials
  - IEEE marketing expressed viability concerns
  - IEEE marketing has agreed to help with financials
  - Waiting for inputs from IEEE
  - Suggest waiting until February to formally present proposal

# TASE Activity

- Pres. Dario sent notice to Soc. Pres. in Aug.
  - Components, Packaging, & Manufacturing Technology Society
  - Circuits and Systems
  - Control Society
  - Systems Man and Cybernetics
  - Electron Devices
  - Industrial Applications
  - Industrial Electronics
  - Neural Nets

# TASE Activity

## ■ Other Society Response

- SMC supports proposal & would like to be either technical or financial co-sponsor
- Circuits & Systems – no objection
- Control Systems requested change in scope wording, and is likely to approve.
- IES – “reactions not negative.” Also planning new publication. Suggest act together. Details requested, no response yet
- IAS – will consider at Oct. AdCom meeting
- Others – no response

# TASE Scope Statement

The IEEE Transactions on Automation Sciences and Engineering (TASE) publishes fundamental papers on Automation, emphasizing interdisciplinary approaches from Computer Science, Control Theory, Electrical Engineering, Mathematics, Mechanical Engineering, Operations Research, and other fields. The scope of Automation is not limited to manufacturing, it is also central for industries such as Agriculture, Biotechnology, Construction, Healthcare, Home Automation, Maintenance, Pharmaceuticals, Service, Retail, Security, and Transportation. Each paper shall include a Note to Practitioners that summarizes how its results might be extended to apply in practice. TASE addresses researchers working to integrate knowledge across disciplines and industries to advance efficiency, quality, productivity, and reliability.

# TASE Activity

- Established Ad Hoc committee to define new scope and name for TRA, assuming TASE is approved.
  - Alesandro DeLuca and Ian Walker co-chairs
  - Report forthcoming
- During Fall
  - Refine budget with IEEE marketing
- Formal submission
  - Budget to TAB Finance in January
  - Proposal to Periodicals and TAB in Feb.

# Proposed TR Scope

- The IEEE Transactions on Robotics publishes fundamental papers dealing with all aspects of robotics. Special emphasis is placed on intelligent machines and systems for unstructured environments, i.e. environments where a significant portion of the environment cannot be directly controlled.

# Transactions Report

- Separate report by Peter Luh

# MAGAZINE REPORT

- Separate report by Kimon Valavanis and Roz Snyder