

**Minutes of
Publications Board
of the IEEE Computer Society**

**Doubletree Post Oak Hotel
2001 Post Oak Blvd.
Houston, TX 77056
San Felipe Room**

**Thursday, February 17, 1999
8:00 A - 5:00 P**

Attendees: Ben Wah, Bill Everett, Jon Butler, Brad Terry, Jake Aggarwal, Hans Hagen, Jim Thomas, Bill Erdsy, Joe Urban, Helen Wood, Mike Williams, Sorel Reisman, Jim Aylor, Jack Stankovic, Farokh Bastani,, Shani Bergen, Jean Bacon, Dick Price, Zhiwei Xu, Carlo Ghezzi, Steve Diamond, Gary Robinson, Mark Christensen, Carl Chang, Mike Liu, Wayne Wolf, Jean-Luc Gaudiot, Dick Kemmerer, Alan Clements, Gul Agha, Ken Laker, John Keaton, Yervant Zorian, Kevin Bowyer, Zhiwei Xu, and Dick Eckhouse

1. 8:35A Ben Wah, PUBS Chair called the meeting to order.
2. 8:40A Agenda The agenda was adopted with the addition of a item by Joe Urban on how PUBS will affect the CS membership.
2. 8:45A Jon Butler was appointed to serve as Secretary to PUBS.
3. 8:46A Ben Wah outlined the goals for 1999 of the PUBS Board. The goals include
 - a) Forming EIC search committees for upcoming EIC appointments
 - b) Focus on policies and direction rather than operations
 - c) Recruit volunteers

Next, Ben Wah discussed the need for uniform reporting of publication activities across magazines and transactions.

5. 9:06A Matt Loeb discussed staffing at the Publications office of the Computer Society, including new hires and promotions, In spite of new hires, there are still two new openings to be filled.

Matt Loeb discussed "E-News" a project associated with *Computer*, which describes issues of general interest, including awards, upcoming articles, etc.. Initially, it is a basic service, which IEEE Computer Society members can reject or accept, but it is expected to evolve in the future.

Matt Loeb described *IT Professional*, which ships to the printer today (02/17./99). Therefore, it will arrive before the end of the month. *IT Professional* is intended for people who enterprise computer systems.

Matt Loeb discussed an acquisitions editor for *Internet Computing*. This magazine has been redesigned, and staff is considering ways to promote it.

Matt Loeb discussed *Computing in Science and Engineering (CISE)*. This is a joint venture with the AIP, American Institute of Physics. It was the offspring of two magazines the two groups previously solely sponsored, *Computers and Physics* (AIP) and *Computer Science and Engineering* (CS). The first issue of *CISE* was published one month ago with George Cybenko as EIC. The sponsorship is 50%/50%.

Matt Loeb discussed the solicitation of ads for magazines. Traditionally, the Computer Society has relied on commissioned solicitation by people whose responsibility to the Computer Society was 15%. Now, we have two people who spend 100% of their time. They have made many telephone calls and visits, in their efforts to solicit more ads.

Matt Loeb discussed the format for reporting of activity of magazines and transactions. He suggested that the following statistics be collected. As part of this proposal, he suggested that the statistics be tracked over the lifetime of the paper. So, a paper can contribute 1 to the No. of papers accepted only if that same paper contributed 1 to the No. of papers submitted. He asked for feedback from the MOC and TOC on this proposal.

- No. of papers submitted
- No. of papers accepted
- No. of papers rejected
- No. of papers withdrawn
- No. of papers published
- No. of others (transferred to other journals, etc.)

Matt Loeb described a new PUBS project, a web page for EIC's at

<http://pascal.computer.org/eic>.

Some attendees reported problems in accessing the site.

Matt Loeb reported on progress in the Memory Management System, MMS, which has transitioned Phase II. MMS now included an all electronic review. It is not completely in place, but it is being tested.

Matt Loeb reported on the authored book activity. There has been a suggestion to move the activities of CS Press under the PUBS Board. At this point, some of the authored books will go to IEEE, some will be abandoned, and some will be retained. There will be less activity in this area.

Matt Loeb reported on the publishing of Proceedings. More proceedings are being placed in the digital library. On the day the Proceedings arrives at the conference, it goes on the web. Abstracts for papers for a conference appear 4-6 weeks before the conference, if, indeed, there is an abstract. Many conferences do not require an abstract; indeed, only 35% - 40% require an abstract. The objective is to have all conferences require abstracts. The Computer Society is processing 175 volumes and 75,000 to 80,000 pages per year.

Matt Loeb described the results of the reviews of three periodicals, *CISE*, *Concurrency*, and *Internet Computing*. The reports on these are due for the PUBS Board meeting in June.

Matt Loeb reported on approaches to survey readers on our periodicals. He reported that it is difficult to get needed information from mail surveys. Therefore, telephone surveys have been conducted. This has been done for *Computer*, and plans are underway for *Software* and *Internet Computing*. This type of survey is very expensive.

Matt Loeb reported that the Audit Committee recommended that the PUBS Board establish closer relations with other Boards and recommended that more liaisons be established.

4. 9:50 A Break

5. 10:00 A The PUBS Board meeting broke into two meetings, one for MOC, Magazines Operations Committee, and one for TOC, Transactions Operations Committee.

6. 12:00 - 1:00 P Lunch

8. 1:12P PUBS reconvened. In a change of agenda, staff member Steve Mattingly gave a demonstration of the all electronic review implemented in MMS. This included logging on, entering data, etc.. For people wanting a live demonstration of this system, two sessions were scheduled for later in the day and Thursday. There was a discussion of issuing of passwords. Now, each instance of an assignment of a manuscript to a referee produces a new password. Concern was expressed that this results in additional work, as referees now request CS staff to provide forgotten passwords. There was a discussion of the mode in which a referee expresses his/her comments. ASCII text allows neither complex equations, nor the ability to "mark the manuscript". ASCII is universal and read with little or no problem.

8. 1:50 P Gul Agha delivered the report of MOC. Two issues were particularly relevant to MOC were

- a) Usefulness of the MMS to EIC's. Especially useful to EIC's is the ability to assess the queue periodically, for example, every month.
- b) Concern was expressed about the extent to which EIC's will have access to the database. Matt Loeb described the status of the MMS stating that the electronic review was completed

this last January, reasonable use by EIC's is expected by the end of February, and later a more robust version is expected with consistency of operation.

The other issue discussed at the MOC meeting was *IT Professional*, how to promote it, both within IEEE and outside. In addition, operational issues were discussed.

10. 2:00 P Jon Butler delivered of the report of TOC.

- a) The sense of the discussion of TOC was that the EIC Report Format proposed by Matt Loeb was suitable for a general audience, especially, if "No. of papers pending" was added to the list of information produced. For EIC use, it was felt that a "Markov model" was appropriate in which the statistics representing the current state of manuscript processing were reported. So, for example, rather than tracking acceptance or rejection of a manuscript over its lifetime, a more useful measure was the total number of submissions, acceptances, and rejections over the last year (Jan. - Dec.). Especially useful is a list of current papers in descending order of the time from submission to the present for a paper where i) referee requests had not been made and where ii) a decision (accept, reject, request a revision, etc.) had not been made.
- b) Since the MMS system uses the ACM classification scheme for computer science and engineering, it was felt that this should be updated. Matt Loeb reported that it was difficult securing volunteers, but felt it would be useful to have a CS volunteer on the ACM committee responsible for updating their classification scheme. Dick Kemmerer volunteered to help in this effort. Also, there was a discussion in TOC regarding the time at which a manuscript is archived. EIC's felt this should be as long as possible, so, that it was possible, for example, to determine the referees of a comment on a published manuscript. At this point, manuscripts are archived after publication.
- c) In TOC, there was discussion of the prospect of "post-as-you-go". That is, manuscripts, upon acceptance are posted on the web, and then saved for later publication in print. This would allow for quarterly publication of transactions, which would save money.
- d) In response to a question by Brad Terry in the TOC, there was general agreement among Transactions EIC's that all Transactions would contain (on the cover) only the name, institution, and E-mail address of editors on the Editorial Board, with a URL to a complete listing of address.
- e) TOC moved and passed unanimously the motion

"TOC recommends that the Computer Society approve co-sponsorship of *TPAMI* and *TIP* (*Transactions on Image Processing*) with the Signal Processing Society."

The goal of this motion is to allow CS members to subscribe to *TIP* at the same price offered to Signal Processing Society members. The motion is reciprocal, allowing Signal Processing Society members *TPAMI* at CS member rates. A "friendly" amendment was offered and accepted that "co-sponsorship" be replaced by "technical co-sponsorship" to reinforce the fact

that financial co-sponsorship was not intended. Technical co-sponsorship implies, in addition, that each society appoint one Editor to the other Transactions' editorial board. The amended motion was voted on and passed unanimously.

f) TOC moved and passed unanimously the motion

"TOC recommends that the Computer Society increase the page budget of *TVLSI* to approximately 740 pages per year."

TVLSI is co-sponsored by the Computer Society, the Circuit and Systems Society, and the Solid State Circuits Society. The latter recently approved a page budget increase from the present 448 pages per year to approximately 740 pages. There was a discussion that this issue would be taken up in the CS Financial Committee as a matter of normal business. No action was taken on this motion.

g) TOC moved and passed unanimously the motion

"TOC recommends that the Computer Society restore the page budget of *TSE* to 1200 pages per year."

Last year, the page budget of *TSE* was set at 900 with no decrease in subscription rates. This was done to accommodate a lack of papers in the backlog. This has now changed; indeed, there are sufficiently many papers this year to fill 1200 pages. As with the previous motion, this issue will be taken up by the CS Financial Committee, and no action was taken on the motion.

11. 2:21 P Zhiwei Xu discussed Computer Society activities in recruiting members from China. A delegation from the Computer Society went there recently to promote a reduced member fee arrangement. Presently, in China, there are 1,175,000 Netizens, 542,000 internet hosts, 37,000 websites, and 9,415 domain names.

12. 2:31 P Matt Loeb discussed the prospect of including the CS Press activities under the PUBS Board. There has been a decision to curtail CS Press activity. There is now the prospect of placing putting CS Press activities under the PUBS Board, possibly as a POC, Press Operations Committee. As Brad Terry is the staff liaison to TOC, there would be a liaison to CS Press (and to MOC). This action requires a by-law change and at least one-half a year.

12. 2:40 P Joe Urban discussed the results of the search for a successor EIC for *Annals*. This committee, chaired by Joe Urban, also consists of Dan Cook, Ron Waxman, Earl Swartzlander, and Mike Williams, in addition to ex-officio members. Ads for this have been run. There have been two inquires, and March 15, 1999 is the deadline for application.

12. 2:44 P Farokh Bastani discussed the activities of the search for a successor EIC for *TSE*. This committee, chaired by Farokh Bastani, also consists of Vic Basili, Raymond Yeh, Leon Shicki, David Card, Ram Chillarege, Emmannelle Darmois, and Dick Kemmerer in addition to ex-officio members. There have been five nominations. There is an attempt to have more

practitioner material in *TSE*. The feeling is that there is a large gap between *Software* and *TSE*. Approximately, one-third of *Software* subscribers also subscribe to *TSE*.

13. 2:48 P Ben Wah stated that the EIC search committees for *Multimedia* and *Design and Test* are ongoing.

14. 2:49 P Ben Wah reiterated the policy for appointment of Editors to Editorial Boards. The PPM requires that EIC's distribute a brief biography of each candidate editor to PUBS Board members with copy to ex-officio members. This can be done by E-mail to

pubs99@computer.org	(PUBS Board members)
eic99@computer.org	(ex-officio members)

In addition, EIC's should be ready to submit a complete vita when any questions occur. He stated that some EIC's are not following this procedure. There was the feeling that the brief bios should be sent by ASCII, not as (long) attachments to E-mail.

15. 2:52 P Break

16. 3:05 P The PUBS Board went into executive session, during which time Mike Liu presented the results of the search committee for EIC of *TPDS*.

17. 3:12 P Ben Wah presided. A motion was made as follows

"PUBS Board accepts the recommendation of the Search Committee for the EIC of *TPDS*".

Moved: Helen Wood. Seconded: Gul Agha. The motion was unanimously passed.

18. 3:13 P Joe Urban discussed the Computer Society's efforts to increase membership. As of this past January, the number of members exceeded 100,000. However, a typical retention rate of 79% will reduce that figure. A number of ideas have been considered. One is recruiting members from Korea. Another is to allow non-member registrants of a Computer Society-sponsored conference a one-year membership in the Computer Society. Matt Loeb stated that the quality of publications is a major factor in our retention of members.

19. 3:35 P The meeting was adjourned.

Respectfully submitted,
Jon T. Butler

Agenda: Feb. 17, 1999

8:00 am – 8:30 am	Continental Breakfast	
8:30 am – 8:45 am	Call to Order Introductions Approval of the Agenda Approval of November'98 Minutes Election of 1999 Secretary	Wah Wah Wah Wah All
8:45 am – 9:05 am	Vice President's Report	Wah
9:05 am – 9:30 am	Publisher's Report	Loeb
9:30 am – 9:45 am	Break	
9:45 am – 12:00 noon	MOC Meeting TOC Meeting	Agha Butler
12:00 noon – 1:00 pm	Lunch	
1:00 pm – 1:15 pm	MOC Report	Agha
1:15 pm – 1:30 pm	TOC Report	Butler
1:30 pm – 2:30 pm	Action Items <ul style="list-style-type: none"> • TSE Page Budget for 2000 • TVLSI Page Budget for 2000 • Technical Co-sponsorship of TPAMI by SP • EIC Report Format Executive Session <ul style="list-style-type: none"> • TPDS EIC Search 	Kemmerer Wolf Bowyer Wah Wah
2:30 pm – 4:00 pm	Reports <ul style="list-style-type: none"> • CCF IEEE-CS Beijing Center • Future of Press Activities Board • Demo of MMS • EIC Searches <ul style="list-style-type: none"> • Annals • TSE • Multimedia • Design and Test • Policy on Editor Appointments • Editors' Home Page on CS Web 	Xu Loeb/Chang Loeb/Mattingly Urban Bastani Wah Wah Wah Loeb
4:00 pm	New Business Next Meeting (June 9, 1999, Richmond, Virginia) Adjournment	Wah

Publications Board VP Report

Ben Wah, 1st VP, Pubs

February 17, 1999

Houston, Texas



Pubs Board Members

- **MOC Chair: Gul Agha**
- **TOC Chair: Jon Butler**
- **Members at large**
 - Jake Aggarwal
 - Alberto del Bimbo
 - Ming T. (Mike) Liu
 - Nancy Mead
 - Joseph Urban
 - Zhiwei Xu
- **IEEE Pubs Liaison: Ron Williams**



EIC Search

Journal	Current EIC	Search Comm. Chair
IEEE Design and Test	Yervant Zorian (1 st term)	Tom Williams
IEEE Annals	Michael Williams (2 nd term)	Joe Urban
IEEE Multimedia	William I. Grosky (1 st term)	Alberto del Bimbo
IEEE TSE	Richard Kemmerer (2 nd term)	Farokh Bastani
IEEE TPDS	Jack A. Stankovic (1 st term)	Mike Liu

Start search 15 months ahead of time



1999 Pubs Board Goals

- Focus on planning and strategic directions (Objective 1.4)
 - Spend time on policies, strategies, and vision
 - Focus on future directions and special initiatives



Goals (cont'd)

- **Volunteer recruitment (Objectives 1.2, 1.3, and 1.6)**
 - **Identify one qualified volunteer every month**
 - **Give awards to our volunteers**
- **Continuation of the integration of electronic publication (Objectives 3.2, 3.3, and 3.6)**
- **All digital journal?**



Goals (cont'd)

- **Development of IT-related products (Objectives 2.2 and 2.3)**
 - **New Transactions on IT?**
- **Relationship to other program boards (Objectives 2.4, 2.6, 2.7, 2.8, and 2.12)**
 - **Membership Committee, C&T, TAB, PAB, and SAB**



EIC Reports: February 14, 1999

Title	1997						1998						1999					
	#sub	#acc	#rej	#with	#pub	#other	#sub	#acc	#rej	#with	#pub	#other	#sub	#acc	#rej	#with	#pub	#other
Computer	88	18	21	1	31	0	70	34	55	0	31	0	8	2	2	0	0	0
Concurrency*	62	18	31	2	21	0	32	18	32	1	21	0	-	-	-	-	-	-
D&T	41	-	-	-	-	-	62	-	-	-	-	-	-	-	-	-	-	-
Internet*	82	25	38	2	25	17	121	22	23	2	20	74	-	-	-	-	-	-
IT Ppo	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Micro	-	-	-	-	44	-	-	-	-	-	40	-	-	-	-	-	-	-
Multimedia	-	-	-	2	25	-	-	-	13	-	19	-	-	-	7	-	-	-
Software	148	18	91	2	31	6	180	34	50	4	39	53	-	-	-	-	-	-
Annals	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TC	376	136	105	9	102	12	330	80	39	0	28	8	-	-	-	-	-	-
TKDE*	197	23	74	8	78	0	229	-	87	9	66	0	-	-	-	-	-	-
TMM	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TON	308	61	171	21	79	24	271	81	199	21	68	9	-	-	-	-	-	-
TPAMI	391	68	244	51	79	0	369	16	166	7	187	0	-	-	-	-	-	-
TPDS	204	-	173	20	111	0	228	143	112	13	101	0	26	25	7	1	6	-
TSE	192	36	122	0	36	0	210	38	69	0	38	16	0	0	0	4	0	0
TVLSI	245	-	-	-	48	-	225	-	-	-	79	-	-	-	-	-	-	-
TVCG	81	29	52	3	29	0	69	32	45	8	25	0	-	-	-	-	-	-

No reports were received from CGA, CiSE, and Intelligent Systems

Proposed EIC Report Format

- **By year (including special issue papers)**
 - **No. of papers submitted**
 - **No. of paper accepted**
 - **No. of papers rejected**
 - **No. of papers withdrawn**
 - **No. of papers published**
 - **No. of papers transferred**
- **Start from 1997**

Proposed Report Format (cont'd)

- **Special issues accepted/published**
 - Title of special issue
 - Guest editor(s)
 - Month that special issue appears
 - Statistics on submissions, acceptances, rejections, revisions, etc.
- **New editors**
- **Retiring editors**
- **Other initiatives**

EIC Reports: February 14, 1999

Title	1997						1998						1999					
	#sub	#acc	#rej	#with	#pub	#other	#sub	#acc	#rej	#with	#pub	#other	#sub	#acc	#rej	#with	#pub	#other
Computer	88	18	21	1	31	0	70	34	55	0	31	0	8	2	2	0	0	0
Concurrency*	62	18	31	2	21	0	32	18	32	1	21	0	-	-	-	-	-	-
D&T	41	-	-	-	-	-	62	-	-	-	-	-	-	-	-	-	-	-
Internet*	82	25	38	2	25	17	121	22	23	2	20	74	-	-	-	-	-	-
IT Ppo	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Micro	-	-	-	-	44	-	-	-	-	-	40	-	-	-	-	-	-	-
Multimedia	-	-	-	2	25	-	-	-	13	-	19	-	-	-	7	-	-	-
Software	148	18	91	2	31	6	180	34	50	4	39	53	-	-	-	-	-	-
Annals	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TC	376	136	105	9	102	12	330	80	39	0	28	8	-	-	-	-	-	-
TKDE*	197	23	74	8	78	0	229	-	87	9	66	0	-	-	-	-	-	-
TMM	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TON	308	61	171	21	79	24	271	81	199	21	68	9	-	-	-	-	-	-
TPAMI	391	68	244	51	79	0	369	16	166	7	187	0	-	-	-	-	-	-
TPDS	204	-	173	20	111	0	228	143	112	13	101	0	26	25	7	1	6	-
TSE	192	36	122	0	36	0	210	38	69	0	38	16	0	0	0	4	0	0
TVLSI	245	-	-	-	48	-	225	-	-	-	79	-	-	-	-	-	-	-
TVCG	81	29	52	3	29	0	69	32	45	8	25	0	-	-	-	-	-	-

No reports were received from CGA, CiSE, and Intelligent Systems

TVCG

Special issues to appear in the future (titles and dates) Best Papers Visualization '98, (v5n2, June 1999)

Editorial Board expirations:

Hans Hagen has assumed the position of Editor-in-Chief of TVCG, as Arie Kaufman retired from the post as of Dec. 31, 1998. Several members of the editorial board have also retired, they are: Ingrid Carlbom, Sabine Coquillart, Henry Fuchs, Pat Hanrahan, Greg Nielson, Tomoyuki Nishita, Frits Post, Philip Robertson, Larry Rosenblum, Holly Rushmeier, and Andy van Dam.

New Editorial Board Members:

These 12 new members have replaced 11 members of the board whose term ended December 1998.

David Ebert - University of Maryland, Baltimore

Robert Moorhead - Mississippi State

Issei Fujishiro - Ochanomizu University, Japan

Bernd Hamman - University of California, Davis

Roni Yagel - Elbit Medical, Israel

Lisa Sobierajski Avila - General Electric

Dinesh Manocha - University of North Carolina, Chapel Hill

Amitabh Varshney - State University of New York at Stony Brook

Chris Johnson - University of Utah

Jessica Hodgins - Georgia Tech

Peter Schroeder - Cal Tech

David Salesin - University of Washington

Establishment of and Appointments to new Advisory Board:

The editorial board of TVCG decided to establish an Advisory Board for TVCG starting January 1, 1999. The initial Advisory Board will include the following members: Henry Fuchs, Pat Hanrahan, Arie Kaufman, Greg Nielson, Larry Rosenblum, and Andy van Dam.

SPECIAL ISSUES:

Feb. 1999 - "Compilers and Languages for Parallel and Distributed Computers" Guest Editors: Pen-Chung Yew, University of Minnesota and Zhiyuan Li, Purdue University
 June 1999 - "Dependable Real-Time Systems" Guest Editors: Neeraj Suri, New Jersey Institute of Technology and Krithi Ramamritham, University of Massachusetts
 October 1999 - "Challenges in Designing Fault-Tolerant Routing in Networks" Guest Editors: Dharma P. Agrawal, North Carolina State University and Jie Wu, Florida Atlantic University
 New TPDS editors for 1999:

Andrew Chien, University of California at San Diego
 Bruce Hendrickson, Sandia National Laboratory
 Stephan Olariu, Old Dominion University
 Krishna Palem, Courant Institute of Mathematical Sciences
 Timothy Pinkston, SMART Interconnection Group, USC
 Neeraj Suri, Boston University
 Charles (Chip) Weems, University of Massachusetts
 Qing Yang, University of Rhode Island
 Tao Yang, University of California at Santa Barbara
 Willy Zwaenepoel, Rice University

Editors who joined the editorial board during 1998:

Ernst Biersack, Institut EURECOM
 Ken Calvert, University of Kentucky
 Samuel T. Chanson, Hong Kong University of Science and Technology
 Gustavo de Veciana, University of Texas at Austin
 Christophe Diot, SPRINT ATL
 J. J. Garcia-Luna-Aceves, University of California at Santa Cruz
 Steven McCanne, University of California at Berkeley
 K. K. Ramakrishnan, ATT Labs-Research
 Hui Zhang, Carnegie Mellon University

Editors who were rotated off the editorial board during 1998:

Deborah Estrin, University of Southern California
 James Kurose, University of Massachusetts
 San-Qi Li, University of Texas at Austin
 Debasis Mitra, Lucent Technologies, Bell Labs
 Peter O'Reilly, GTE Laboratories
 D. Raychaudhuri, NEC USA, Inc.
 Krishan Sabnani, Lucent Technologies, Bell Labs
 Kenneth Vastola, Rensselaer Polytechnic Institute

Annals of Computing

Annals is in good shape. The first issue of this year has already been produced and mailed. The second issue is all but ready for production—it is a special issue containing a number of papers about early computing in Denmark, Sweden, and Norway.

The third issue for this year is already full with a number of papers from Eastern Europe and the last issue will be a general issue devoted to cleaning up some of the backlog of papers on file.

The process of finding a new EIC for Annals (this is my last year) is on track and I hope it will be done before the summer meetings week.

Software

CHANGES IN THE EDITORIAL BOARD: None.

SPECIAL ISSUES

Jan-Feb 1999: The Linux Operating System (completed)

Mar-Apr 1999: Performance Optimization Metrics for Small Organizations

May-Jun 1999: Critical Success Factors in Software Projects State of the Workforce

Jul-Aug 1999: Software Certification

Sep-Oct 1999: Organizational Design Architecture Design

Nov-Dec 1999: Cross-Pollinating Engineering Disciplines Defining Software Engineering as a Profession

Jan 2000: Process Diversity

PROBLEM AREAS FOR IEEE SOFTWARE

We are working to improve the quality and quantity of our peer reviews. We recently revised the questions we ask reviewers and are looking into modifying MMS to allow us to associate a grade with each completed review, which will help us better select the reviewers for each manuscript.

T-MM

You can report that the first issue is on press. That it has 120 pages (+4 covers), and presents 9 manuscripts. I think it is a good first issue, considering we had so little time to put it together (September-November 1998). You can report that we are using a rapid schedule of trading manuscripts, and that it is working with little if any resistance on the part of the AEs or reviewers. We have several manuscripts going through peer review, and hope that seven of those that are undergoing re-review after revision, will make the second issue. We start working on the second issue very soon, of course.

The AEs have been formally appointed, although we still have some blanks to fill in on some of the EDICS with additional AEs.

We will run the reports from the database at the end of February, so that the data will go to the Steering Committee in their agenda books. The second Steering Committee meeting is 21 March in Phoenix.

Internet Computing

All our issues have a theme, so there were six special issues each year. After last March, we added the following people to the editorial board: Mani Chandy, Charles Perkins, Ravi Sandhu, Li Gong, Fred Douglass (liaison to TC on Internetworking).

Munindar Singh is the new EIC; Bob Filman is the AEIC.

The following people have left: Ted Lewis, Ben Adida, Feniosky Pena-Mora, Ken Urquhart.

IT-Pro

The first issue of IT Professional will be in the mail by the end of February, according to the schedule established last year. Cyber IT Pro will also be posted at that time.

In the first issue we have five articles, three columns, one profile, an opinion piece, and other offerings such as news and resources. It is very strong editorially.

Some sample topics from Issue One are:

US Y2K Czar John Koskinen on one sentence summarizing the interview Plus one-sentence summary of Ulrich. And one more sentence summarizing Jones and Rubin.

Internet Support for the Next-Generation Internet Today

Security Steps to Take to Protect Your Network from Intrusion

Enterprise Architecture Looking at the Big Picture

Systems Development When Models Collide: How Projects Go Wrong

IT Profile Andy Grove on What is Behind Intel's Network Strategy

IT Trends Outsourcing: one phrase summary

Issue 2 is well underway; it mails in late March.

To date 19 people have accepted invitations to serve on the Editorial Board and 10 on the Advisory Board. I will host a small meeting of the board in late April to review the first two issues and further set direction for the rest of the year.

TKDE

Special issues that will appear in IEEE-TKDE in the near future:

1. Special issue in honor of Prof. C.V. Ramamoorthy, Jan/Feb 1999
2. Multimedia Information Sys., Arif Ghafoor and Bruce Berra, May/Jun 1999
3. Workshop on Multimedia Information Systems, May/Jun 1999 (tentative)
4. Internet Technologies, Michael Lyu, Jul/Aug 1999
5. ICDE'98, Elisa Bertino and Susan Urban, Summer 1999
6. SRDS'98, Mukesh Singhal, Fall 1999
7. Building Probabilistic Networks: Where do the Numbers Come From? Marek Druzdzel and Linda van der Gaag, late 1999
8. ICDE'99, Calton Pu, Summer 2000
9. Connectionist Models for Learning in Structured Domains, Paolo Frasconi, Marco Gori, Alessandro Sperduti, Summer 2000
10. FIP DS'98 (Semantic Issues of Multimedia Systems), Robert Meersman, Scott Stevens, Zahir Tari (Coordinated by Bhavani Thuraisingham), Summer 2000

The following special sections will be scheduled based on the number of papers selected (if any):

11. SEKE'98, Yi Deng
12. KDEX'98, Jonathan Lee and Bhavani Thuraisingham
13. TAI'98, John Yen

Multimedia

No additional report

IEEE Computer

The 1999 report reflects January and February activity. None of the features published in those two issues came through the traditional review process: The Outlook issue generally is not filled that way, and in the case of February the Cybersquare was an acquired manuscript.

Computer volunteers and staff have been working with the staff of the Information Services and Technology department to implement an all-digital review process and to determine how to update the person records in the Manuscript Management System.

Editorial improvements include a monthly section on the Y2K Problem and improved coverage of membership news. We plan to continue experimenting with the coverage of news for and about the CS, to determine the right mix of coverage. Computer's Web site now features both the Y2K editorial and the Computer Society Connection.

One appointment to the Editorial Board is in review: Jonathon Smith for Networking. We continue to recruit for another editor in the Software Technologies Area.

Special issues to appear in the future (titles and dates) Mar., IT; Apr., Networking; May, Software Revolution; June, Systems on a Chip; Jul., Software Components; Aug., Data Mining and Analysis; Sep., Web-Based Learning and Collaborative Work; Oct., Software Engineering; Nov., Deep Submicron Design and Testing in Nanometer Technologies; Dec., Visualization.

Problem areas of your journal Principal problem continues to be the dearth of high-quality research submissions. This is a growing problem.

Micro

I asked the former EIC, Steve Diamond, about the numbers you requested.

He said "... 80the Guest Editors doing special issues – and those numbers are not visible". This is because Micro is a magazine that publish articles , not papers.

So only numbers I know now are as follows.

And every issue of IEEE Micro is the special issue as below.

\# of articles	Issue	Special Issue Title
7	Jan-Feb 99	Hot Interconnects '98
6	Nov-Dec 98	Digital Imaging
6	Sep-Oct 98	Embedded Fault Tolerance
7	Jul-Aug 98	Chip Package Design
7	May-Jun 98	Standards
7	Mar-Apr 98	Hot Chips '97
7	Jan-Feb 98	Hot Interconnects '97
8	Nov-Dec 97	DRAM Technology
7	Sep-Oct 97	Processor Architecture
8	Jul-Aug 97	ARM Architecture and Systems
7	May-Jun 97	Java
7	Mar-Apr 97	Hot Chips '96

Trans. Computers

Special issues currently under development:

Cache Memory and Related Problems, Editors: Milutinovic and Valero, Scheduled for February 1999

Configurable Computing, Editors: Gaudiot and Lombardi, Scheduled for September 1999

Multithreaded Architectures and Systems, Editors: Gaudiot and Gao, Scheduled for September 1999

Defect Tolerance in Digital Systems, Editors: Lombardi and Sami, Scheduled for June 2000

Design and Test

The rate and the quality of D&T submissions continued to increase during the last 12 months. The number of submissions received reached 62 (versus 41 submissions in the previous 12 months). This includes the special issue submissions and the unsolicited non-theme manuscripts. The dedicated theme articles are typically six to seven per issue, whereas three to four non-theme articles occupy the rest of the issue. Due to the quality of articles and the space limitation for the special issues, most of the guest editors ended up accepting additional theme papers that did not appear in their special issue, but in one of the following issues occupying the non-theme article space. This resulted in a growing queue of accepted papers several of which are edited by the staff and are waiting for appearance in the upcoming issues.

The four special issues for 1999 are: DRAM Architecture and Test (Jan-Mar), Reengineering Digital Systems (Apr-Jun), Test and Product Life Cycle (Jul-Sept) and MEMS Design and Test (Oct-Dec). Several submissions are received for special issue in 2000, but the selection is not completed yet.

Sharing lifelong experiences in the design and test domain has been a tradition of D&T's interviews. The first issue of 1999, contained an interview with D. Banatao. Two weeks ago, we had the chance to have an exciting interview with Gordon Moore (founder of Intel). We plan to publish it in the upcoming issue of D&T (Apr-Jun).

The collaboration with conferences and workshops in the domain of design and test continues. The keynote address of the International Test Conference by R. Saxby (CEO and President of ARM) appears as an article in the current issue. Several other keynotes are planned for the upcoming issues.

The Editorial Board met twice during the last quarter of 1998 at ITC and ICCAD. Based on a prior recommendation by Matt, a decision was made to survey professionals in the design and test domain who are not subscribers of D&T. The survey will be conducted by the Editorial Board members during relevant workshops and conferences where two copies of recent D&T issues will be provided to each person who volunteers to respond to the questionnaire. The survey questionnaire is prepared and will be used at several workshops held in the spring time frame.

Another decision was made by the Editorial Board to revisit the topic areas currently listed in D&T. This was established some time ago. An updated list of topics in design and test domains is being discussed at this point. Once the new topics are set, we will find and assign the best corresponding Associate Editor for each topic. This will probably bring on-board several new Editorial Board members. Also, we have recently identified the need for two Associate Editor-in-Chiefs instead of a single one. The first to cover the design domain and the second will be dedicated to test technology. We also have identified adequate candidates for both positions, namely Rajesh Gupta and Tim Cheng respectively, and hope to complete their assignment process in the upcoming weeks.

1. With January of 1999, PAMI switched from submissions being handled at the EIC's home institution to being handled at the Computer Society. There may be a small extra time lag in submission recording until authors get in the habit of submitting to the CS office; most submissions are currently being sent to the previous EIC.

2. Editorial board appointments.

A. EIC.

Professor Kevin Bowyer took over as EIC from Professor Rangachar Kasturi on January of '99.

B. Associate EIC.

Pat Flynn (Ohio State), who has completed a 4-year term as an Associate Editor, has been appointed as the first Associate EIC.

C. Associate Editors.

New AEs appointed in 1999:

Dov Dori, Israel Institute of Technology

Peter Meer, Rutgers

Charles Bouman, Purdue University

Henrik Christensen, Royal Institute of Tech. (Stockholm)

Michal Irani, Weizmann Institute of Science

David Jacobs, NEC Research Institute (Princeton)

Randal Nelson, University of Rochester

Amnon Shashua, Hebrew University

3. Special issues.

A. 20th anniversary special issue.

A special issue planned in honor of PAMI having completed 20 years of publication. This special issue will have survey papers authored by leading figures in various research areas relevant to PAMI. The papers will be reviewed. A core group of authors has already been lined up.

B. Other possible special issue topics.

Several guest editors have contacted the EIC about the possibility of special issues on various themes:

Josef Bigun	Multimodal methods
Marcello Pelillo	Optimization principles and methods in CV
Steve Mann	Humanistic intelligence

These proposals are all still under consideration.

4. Special initiatives.

A. Decreasing the average time-to-publication.

The average time from submission to publication of papers which have appeared in PAMI, computed by issue over the last two years, varies between 17 and 25 months.

A major goal of the journal will be to show substantial reduction in this average time-to-publication. This is important to increase satisfaction of both subscribers and authors.

Efforts toward this goal include re-assigning submissions when necessary, and the EIC and Assoc EIC providing help to AEs when necessary.

B. Sample copies at conferences to increase visibility.

In an effort to increase visibility of PAMI relative to other competing journals, arrangements have been made to have either copies of an editorial or sample copies of the journal available at several meetings:

Int Conf on Multimodal Interface	Jan 99	Hong Kong
Int Conf on Vision Systems	Jan 99	Gran Canaria
Audio / Video Based Biometrics	Mar 99	Washington, DC
Vision Interface '99	May 99	Trois Rivières
Pattern Recognition in Practice	May 99	Netherlands
Int Florida AI Res. Symposium	May 99	Orlando
AAAI	Jul 99	Orlando

C. Editorial mentioning SCI's "impact factor" rankings.

An editorial in the January '99 issue of PAMI mentions the SCI "impact factor" ranking of a number of journals that compete with PAMI or serve closely related areas:

Trans. PAMI	2.09
Artificial Intelligence	2.05
Int. J. Computer Vision	1.66
Trans. Medical Imaging	1.61
Trans. Neural Networks	1.59
Trans. Signal Processing	1.57
Machine Learning	1.40
Trans. Image Processing	1.06
Trans Robotics. and Auto.	0.90
Trans. Sys., Man and Cyb.	0.81
ACM Trans. on Graphics	0.73
Pattern Recognition	0.69
Image and Vision Computing	0.59
Int. J. Intell. Systems	0.52
Patt. Rec. Letters	0.33

We want to encourage authors to think of PAMI as the preferred place to publish their best work.

TSE

	1999	1998	1997
Special Issue Papers Published (Includes Jan/Feb Issue)	4	33	14
Regular/Correspondence Submissions: (To Date Received Category)	12	177	178

Accepted Category (Excl. Minor Revision)			
Total:	0	5	22
Published:	0	1	13
Accepted, but waiting for pub. materials or in pub. process	0	4	9

Rejected Category Total:	0	69	122
Rejected, Withdrawn or Closed:	0	53	114
Rejected by EIC or AE Without Reviewer Assignment:	0	16	8

In Review Category Total:	12	103	34
Pending Minor Revision:	0	4	2
Pending Major Revision:	0	23	19
1st Review Process (Incl. Pending AE/Reviewer Assignments):	12	64	0
2nd Review Process:	0	3	7
Pending AE Decision:	0	9	6
New Associate Editors:	David Notkin Dino Mandrioli		University of Washington Politecnico di Milano
Special Issues/Sections 1998:			
January 1998, 2nd Special Issue on Formal Methods in Software Practice	Sriram Sankar (Sun Microsystems Laboratories)		Laura Dillon (UC, Santa Barbara)
May 1998, Special Issue on Mobility and Network Aware Computing	Catalin Roman (Washington)		Carlo Ghezzi (Politecnico di)
July 1998, BEST PAPERS Fourth Symposium on the Foundations of Software Engineering (FSE-4)	David Garlan (CMU)		Mark Moriconi (SRI International)

August 1998, BEST PAPERS
International Conference
on Software Engineering (ICSE-97) Alfonso Fuggetta Dick Taylor
(Politecnico di Milano) (UC, Irvine)

September 1998, BEST PAPERS
Sixth European Software
Engineering Conference/Fifth
Foundations of Software
Engineering (ESEC/FSE 97) Mehdi Jazayeri
(Technical University Vienna)

October 1998,
Special Issue on
Feature Interactions in
Telecommunication Networks
and Distributed Systems Yow-Jian Lin Mehdi Jazayeri
(Bell Laboratories) (Technical University
Vienna)

November 1998,
Special Issue on
Managing Inconsistency in
Software Development Bashar Nuseibeh Carlo Ghezzi
(Imperial College) (Politecnico di
Milano)

December 1998,
Special Issue on
Scenarios in Software
Engineering Matthias Jarke Reino Kurki-Suonio
(RWTH Aachen, Germany) (Tampere University
of Technology)

Jan/Feb 1999, BEST PAPERS
IEEE International Conference
on Engineering of Complex
Computer Systems (ICECCS97) Mauro Pezze' Carlo Ghezzi
(Politecnico di Milano) (Politecnico di
Milano)

Mar/Apr 1999, BEST PAPERS
7th International Workshop on
Petri Nets and Performance
Models (PNPM'97) Giovanni Chiola Bill Sanders
(Universita' di Genoa) (University of Illinois)

May/June 1999, Best Papers
USENIX Conference on
Domain Specific Languages (DSL'97) Chris Ramming David Wile
(ATT Research) USC/Information Sciences Institute

Sept/Oct, BEST PAPERS
Dependable Computing for
Critical Applications (DCCA-6) Cathy Meadows Bill Sanders
(Naval Research Laboratory) (University of Illinois)
University) Milano)

1999, BEST PAPERS
Formal Methods for Open
Object-based Distributed
Systems Howard Bowman John Derrick Ed Brinksma
(University of Kent) (University of Twente)

1999, BEST PAPERS

Fifth International Conference on Software Reuse (ICSR5)	Prem Devanbu (UC, Davis)	Dewayne Perry (Bell Labs)	Jeffrey Poulin (Bell Labs)
1999, BEST PAPERS Fundamental Approaches Software Engineering to (FASE)	Egidio Astesiano (Genoa)	Carlo Ghezzi (Politecnico di Milano)	
Nov/Dec, BEST PAPERS 1997 International Conference on Software Maintenance (ICSM)	Mary Jean Harrold (Ohio State University)	Hausi Muller (University of Victoria)	
Jul/Aug 1999, Special Issue on Empirical Methods in Software Engineering	Ross Jeffery University of New South Wales	Lawrence Votta Lucent Technologies	
1999, Special Issue on Architecture Independent Languages and Software Tools for Parallel Processing	Domenico Talia (ISI - CNR)	Pradip K: Srimani (Colorado State University)	Mehdi Jazayeri (Technical University Vienna)
1999, Special Issue on Current Trends in Exception Handling	Alexander Romanovsky (University of Newcastle upon Tyne)	Anand Tripathi (University of Minnesota)	Dewayne E. Perry (Bell Laboratories)
2000, BEST PAPERS The First International Workshop on Software and Performance	Murray Woodside Carleton University	Paul Clements Software Engr. Institute	Albert Cheng University of Houston

Concurrency

1997 through 1998

SPECIAL TRACKS:

- (1) "Actors and Agents" April 1998 - April 1999
Guest Editors: Jean-Pierre Briot and Dennis Kafura
- (2) "Practical Aspects of Object-Oriented Systems"
Guest Editor: Murthy Devarakonda July 1998 - July 1999

CONTINUING DEPARTMENTS:

- (1) "Multimedia Applications" Start Date: January 1997
Editor: Argy Krikelis
- (2) "Distributed Databases" Start Date: April 1997
Editors: Paul Amman and Sushil Jajodia
- (3) "Mobile Computing" Start Date: January 1998
Editor: Bill Mangione-Smith

1999

special issues

Jan - March 1999

We are starting a new Department "Trend Wars". Dejan Milojevic poses questions to experts who are expected to take opposing views on controversial topics. We shall invite readers to write in to continue the debate.

Crystal Chweh is starting a column on news and current topics. From the next issue this will include a "bookmark" feature (of URLs, each with a short description) in the form of sidebars. We have sent personal email to each EB member to ask for topics and URLs and will do this regularly for each issue.

April - June 1999

Alan Jones, a new EB member from ATT research Labs (was ORL), Cambridge, will start a special track in the area of mobile computing. The letters feature will start.

July - Sept 1999

Professor Santosh Shrivastava will guest edit the start of a special track on workflow.

Oct - Dec 1999

We have a special track starting on data mining at the same time as Intelligent Systems. Three guest editors proposed this to us.

We have had first thoughts on including something along the lines of "Thoughts for the Millenium" in this issue.

EB appointments

Dr Alan Jones of ATT Research Cambridge (until recently ORL) joined the EB in Nov 1998. His area is communications and mobile computing. Professor Dr Alex Buchman from the Technical University of

Darmstadt, Germany has agreed to serve on the EB. His areas are Real Time Systems and Active Database. We await his CV for circulation.

special initiatives

1. Trend Wars interviews - see above
2. Letters feature - see above
3. URL "bookmarks" - see above
4. Thanking reviewers: as well as publishing the list of 1998 reviewers in the first issue in 1999 we will from now on send each reviewer 4 complimentary issues of Concurrency with a letter of thanks and a request to pass them on if they already subscribe.
5. Thoughts for the Millenium - just a flag that we intend to think.
6. Usenix technical cosponsorship under negotiation. Usenix seems to be open to a full technical cosponsorship, which might enable their members to get Concurrency at the regular CS member rate - a big marketing plus. They are awaiting word of what would be required of them for such a formal arrangement. They already agree to trade ads, help supply material, and list us on their registration materials.
7. Tie-in with conferences through Program Chairs to solicit good papers. Several have been approached but there is often a preexisting arrangement. ASA/MA Symposium (Agent Systems and Applications), for issue 2000-1?
8. Distribution of complimentary copies and flysheets at conferences. SIGOPS EW98 Sintra Sept 1998 DISC'98 Crete, Sept 98 (was WDAG) 12th Int Symp on DIStributed Computing EDOC98 Nov98 La Jolla, San Diego Enterprise Dist Obj Comp HPDC8 August 3-6, 1999, Crowne Plaza Hotel, Redondo Beach, California (High Performance Distributed Computimng)