

SPCOM-TC Meeting at ICASSP-2014

Report from the Chair

This report is designed to provide a concise summary of the state of the SPCOM Technical Committee. Much of this information has been previously communicated to members of the TC. The goal here is to ensure that this information is appropriately archived.

1. Membership:

At the end of 2013, the following members stepped down from the TC. On your behalf, it is my pleasure to thank them for their service: Paolo Banelli, Syed Jafar, Eduard Jorswieck, Ye (Geoffrey) Li, Roberto Lopez-Valcarce, Zhi-Quan (Tom) Luo, Xiaoli Ma, Gerald Matz, Alejandro Ribeiro, and Wei Yu. Special thanks are offered to Tom, for his many years of service, including terms as Past-Chair, Chair and Vice-Chair.

In our elections in the Fall of 2013 the following people were newly elected to the TC: Biao Chen, Philippe Ciblat, Feifei Gao, Shi Jin, Chandra Murthy, Ahmed Sadek, Mathini Sellathurai, Weifeng Su, Cihan Tepedelenlioglu, and Pengfei Xia. On behalf of the TC, I would like to welcome you. We look forward to the perspectives that you will bring to our discussions.

In those elections, the following TC members were re-elected to a second term: Chong-Yung Chi, David Love, Matthew McKay, Milica Stojanovic, Wolfgang Utschick, Sergiy Vorobyov. We thank you for your service over the last three years, and we look forward to your contributions in the next three.

In addition, it is my pleasure to congratulate Erik Larsson on his election to the position of Vice-Chair of the TC.

Some measures of the diversity of the membership:

- The geographical distribution of the membership for 2014 is:
USA 12; Asia 7, Europe 6.5, Canada 4.5, Middle East 1
- The TC has 5 female members
- The TC has two industrial members.

2. TC Subcommittees

As of the beginning of 2014, the subcommittee structure of the TC was as follows. We will be populating the vacant positions shortly.

- Awards subcommittee: Erik Larsson, Tim Davidson (Chair), *one/two vacancies*
- Marconi Award subcommittee: Tim Davidson (Chair), *at least three vacancies selected from TC members who are currently Associate Editors for the IEEE Transactions on Wireless Communications*

- Nominations and Elections Subcommittee: C.-Y. Chi, Milica Stojanovic, Tim Davidson (Chair), *two vacancies (one from Europea, one from USA)*
- Industry/Government Subcommittee: Dirk Slock, Erik Larsson, Robert Cui (Chair)
- Newsletter Subcommittee: *two vacancies, including the Chair*
- Education subcommittee: C.-Y. Chi, *two vacancies*
- Website subcommittee: Kaibin Huang, Tim Davidson (Chair), *one vacancy*
- Regional representatives: *Vacant, we would like representatives from USA, Canada/Latin America, Europe, Asia/Oceania*
- Student subcommittee: *Vacant. Perhaps we could get a student affiliate member to chair.*

3. TC Representation

In 2014, the following people are external representatives of the TC:

- Technical Directions Board (Tim Davidson)
- Steering Committee of the IEEE Transactions on Wireless Communications (Robert Heath)
- IEEE WCL Steering committee (Erik Larsson)

4. Outcome of the TC's nominations for Society's Major Awards made in Fall 2013

These nominations are for the 2013 awards, which will be awarded in 2014.

Society Award: *no nominee*

Technical Achievement Award: *no nominee*

Best Paper Award: R. W. Heath, Jr., Tao Wu, Young Hoon Kwon and A. C. K. Soong, for their paper "Multiuser MIMO in Distributed Antenna Systems with Out-of-Cell Interference", *IEEE Transactions on Signal Processing*, October 2011. *Successful*

Young Author Best Paper Award: L. Li, for her paper with A. Scaglione and J. H. Manton, "Distributed Principal Subspace Estimation in Wireless Sensor Networks", *IEEE Journal of Selected Topics in Signal Processing*, August 2011. *Successful*

Signal Processing Letters Best Paper Award: G. Zheng, K.-K. Wong, A. Paulraj and B. Ottersten, for their paper "Collaborative-relay beamforming with perfect CSI: Optimum and distributed implementation", *IEEE Signal Processing Letters*, April 2009. *Successful*

Magazine Best Paper Award: Walid Saad, Zhu Han, Mérouane Debbah, Are Hjørungnes (dec.), and Tamer Basar for their paper "Coalitional Game Theory for Communication Networks", *IEEE Signal Processing Magazine*, December 2009. *Unsuccessful*.

5. Notable Awards

IEEE Fellows: TC members Shuguang (Robert) Cui and Shengli Zhou, retiring members Syed Jafar and Wei Yu, and past member Philip Schniter, were elevated to IEEE Fellow on 1 January 2014.

6. ICASSP Paper submissions

papers submitted to SPCOM TC

ICASSP 2003	320
ICASSP 2004	360
ICASSP 2005	408
ICASSP 2006	420
ICASSP 2007	380 (174 accepted, or ~ 46%)
ICASSP 2008	283 (150 accepted, or ~ 53%)
ICASSP 2009	293 (133 accepted, or ~ 45%)
ICASSP 2010	297 (142 accepted, or ~ 48%)
ICASSP 2011	355 (168 accepted, or ~ 47%)
ICASSP 2012	219 (115 accepted, or ~ 53%)
ICASSP 2013	382 (200 accepted, or ~ 52%) plus 5 presentations of SPL papers
ICASSP 2014	392 (188 accepted, or ~ 48%) plus 12 presentations of SPL papers

There were no joint sessions other TCs in 2014.

7. SPAWC Paper Submissions and Attendance

SPAWC 2011	213 (116 accepted, or ~54%); 137 attendees
SPAWC 2012	171 (119 accepted, or ~70%); 130 attendees
SPAWC 2013	241 (158 accepted, or ~65%); 184 attendees
SPAWC 2014	141 (104 accepted, or ~74%), includes 20 invited papers, fully reviewed

8. GlobalSIP Symposia in SPCOM Areas

GlobalSIP 2013	5 of 18 symposia
GlobalSIP 2014	6 of 13 symposia

9. Tasks for 2014/2015

May 2014	Call for nomination of candidates for Distinguished Lecturer
31 May	Submit TC's nominee(s) for Distinguished Lecturer
June	Refine policies and procedures according to ICASSP discussion, and approve Call for nominations of candidates for best paper, young author, SPL, magazine paper and column, overview and lasting impact awards Complete scan review process for paper awards Call for nominations and voting on candidates for IEEE Baker Award and IEEE Fink Award
1 July	Submit TC's nominees for Baker and Fink Awards
July	Paper award review process Call for nominations of candidates for Society, Technical Achievement, Meritorious Service, and Education awards
1 August	Submit responses to Technical Directions Board regarding issues raised at ICASSP meeting
August	Complete paper award review process, and all rounds of voting Complete voting for Society, Technical Achievement, Service and Education awards
1 September	Submit TC's nominees for the Society's major awards.
September	Call for nomination of candidates for election to the TC
October	Membership election
November	Assignment of ICASSP reviews
December	Call for nominations of candidates for IEEE Fourier Award Call for nominations of candidates for Marconi Paper Award
end Dec. 2014	ICASSP reviews due
31 Jan. 2015	Submit TC's nominee for IEEE Fourier Award
15 Feb 2015	Submit TC's nominee for Marconi Paper Award
March 2015	SPAWC reviews

10. Upcoming TC Meetings:

SPAWC 2014 (22-25 June 2014, Toronto, Canada)

ICASSP 2015 (19-24 April 2015, Brisbane, Australia)