



## Technical Committee on Transmission, Access, and Optical Systems

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**Authors:** Ahmed E. Kamal and Tarek S. El-Bawab  
**Date/Time:** Tuesday, December 10, 2013, 11:30 am – 1:00 pm

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**Meeting Location:** Rooms 404 and 405, Hilton Atlanta, Atlanta, GA  
**Officers:** Tarek S. El-Bawab, Chair, [telbawab@ieee.org](mailto:telbawab@ieee.org)  
Michael Devetsikiotis, Vice-Chair, [mdevets@ncsu.edu](mailto:mdevets@ncsu.edu)  
Ahmed E. Kamal, Secretary, [kamal@iastate.edu](mailto:kamal@iastate.edu)

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Meeting was called to order at 11:30 am

### 1. Participants

- Jean Armstrong, Monash University, Australia
- Islan Bayram, North Carolina State University, USA
- Stefano Bregni, Politecnico di Milano, Italy
- Filippo Cugini, CNIT, Italy
- Michael Devetsikiotis, NC State University, USA
- James Du, Temple University, USA
- Tarek El-Bawab, Jackson State University (JSU), USA
- Jaafar Elmirghani, University of Leeds, UK
- Nathan Gomes, University of Kent, UK
- Steve Gorshe, PMC-Sierra, USA
- Fabrizio Granelli, University of Trento, Italy
- Ahmed Kamal, Iowa State University, USA
- Athanassios Manikas, Imperial College, UK
- Michael McGarry, University of Texas El Paso, USA
- Eiji Oki, UEC Tokyo, Japan
- Wai Pang, University of Northumbria, UK
- Ioannis Papapanagiotou, Purdue University, USA

- Martin Reisslein, Arizona State University, USA
- Luca Valcarengi, Sant'Anna, Italy (via Audio Conferencing)
- Christos Verikoukis, CTTC, Spain
- Naoaki Yamanaka, Keio University, Japan
- Nizar Zorba, QMIC, Qatar

## **2. Introduction**

The meeting of the Transmission, Access, and Optical Systems (TAOS) Technical Committee (TC) was held in rooms 404 and 405 on the fourth floor of the Hilton Atlanta Hotel, Atlanta, Georgia, during the IEEE Globecom 2013 conference. The Chair Tarek El-Bawab welcomed all participants and outlined the agenda. First, attendants were introduced. The attached slides were displayed as participants went through discussions, item by item.

## **3. Approval of the ICC 2013 Minutes**

Ahmed made a motion to approve the minutes, the draft of which are posted on TAOS website ([www.comsoc.org/~taos](http://www.comsoc.org/~taos)). The motion was seconded by Wai Pang. All attendees voted to approve the minutes, and the motion passed.

## **4. New Officers**

Tarek explained that no elections were originally planned for this year. However, Mike Devetsikiotis has decided to step down as Vice Chair of TAOS because he is accepting another ComSoc position which will take a lot of his time/effort and because that position has potential conflict of interest (COI) with his TAOS' role. Therefore, Ahmed Kamal is elevated to TAOS Vice Chair. Athanassios Manikas has been nominated by TAOS' Steering Committee, per the TC's Policies and Procedures (P&P), for the position of TAOS Secretary, effective January 1, 2014. Stefano Bregni, as representative of TAOS' Steering Committee, administered the voting process on this nomination. The result of the vote came as follows:

18 Yes (all members who attended the vote), 0 No, and 0 Abstain.

Athanassios Manikas will assume the TAOS secretary's position starting January 1, 2014.

An Industry liaison position is also introduced, and Filippo Cuigini is selected to fill this position. One of the main responsibilities of this position will be the creation of a Semi-annual TAOS Newsletter to be published before TAOS ICC and Globecom meetings.

## **5. Other Highlights and Trends**

Tarek updated the attendees about the 2013 TC certification process, in which TAOS is included. He reported that the feedback on TAOS' certification report was positive. The Board of Governors is expected to approve the recertification decision during its IEEE Globecom 2013 conference (before it becomes official). Issues that came up for all TCs to observe in future are

related to P&P continuous update and publications and to defining the TC's Active (Voting) Member. These matters are discussed in more detail later in this meeting.

TAOS current themes (Broadband Access and Green Communication/Networks) continue. The two SAC Tracks in these areas became inherent part of all ICC/GC SAC Symposia

## **6. Conference updates**

Tarek reviewed conferences sponsorships, as per the attached slides, including

- a. Submission and acceptance statistics for ICC'13 and GC'13; and submission statistics for ICC'14. This is concerning the Optical Networking and Systems (ONS) Symposium; and both the "Access Networks and System" Track and the "Green Communication Systems and Networks" Track of the Selected Areas on Communications (SAC) Symposium. The statistics are available on Slides # 7, 8 and 9.
- b. ONS and SAC submission trends (2010 through today)- Slide # 10:
  - i. ONS experience decline in the number of submissions
  - ii. The SAC Tracks are stable, with the Green Communications/Networks Track actually dominating the Symposium
- b. TAOS' SAC Tracks and ONS paper types- Slides # 11 and 12
  - i. Access Track papers distribution among various broad-band-access areas (based on transmission media types)
  - ii. Systems versus Networking paper in ONS. Tarek explained that system papers have increased in percentage from 25% at GC 2010 to almost 50% at GC 2013. Once again, a discussion took place among attendees about why ONS submissions, especially in networking, have decreased.
- c. Other upcoming ICC/GC sponsorships and conferences which TAOS is technically Co-Sponsoring (TCS)- Slides 13 and 14

## **7. TAOS P&P**

The following has been decided based on recertification-process feedback (Slide # 15):

- a. Since P&P continuous update are desirable by ComSoc and TAC, members of the TAOS community are all invited to provide their P&P suggestions to TAOS officer(s) within 10 days of today. Current P&P are posted on TAOS website: [http://committees.comsoc.org/taos/policies\\_and\\_procedures.html](http://committees.comsoc.org/taos/policies_and_procedures.html). Suggestions are welcome through Dec. 20, 2013.
- b. Voting members= active members; who have been attending TAOS meetings in past years. The ComSoc P&P will be used for guidance in this regards; and all suggestion thereto are welcome (per item 7a here above)

## **8. Other Activities/Updates**

Numerous contributions by TAOS membership to current ComSoc leadership have been reviewed. Emphasis has been made on TAOS continuing policy to look for new volunteers and activists. (Slides # 16 and 17)

## **9 Awards**

A certificate (Plaque) of appreciation was presented by the TAOS chair, Tarek El Bawab, to the retiring Vice Chair, Mike Devetsikiotis for his service as Secretary and Vice Chair of the TC

The meeting was adjourned at 12:50pm

Attachments: Meeting Slides

## IEEE Communications Society (ComSoc) Transmission, Access, Optical Systems (TAOS) Technical Committee

GLOBECOM 2013 TC meeting,  
Atlanta, Georgia, USA  
Tuesday, December 10, 2013  
Hilton Atlanta, Rooms 404/405, 4<sup>th</sup> Floor  
11:30 am -13:00 pm

Tarek S. El-Bawab, Ph.D.  
Chair, TAOS

## Agenda

- ◆ Welcome & Introductions
- ◆ Approval of the ICC 2013 minutes of meeting
- ◆ **New Secretary and Industry Liaison**
- ◆ Other Highlights and Trends
- ◆ Conferences update (sponsorships and statistics)
  - ICC 2013
  - Globecom 2013
  - ICC 2014
  - ICC/Globecom statistics (2010-2014)
  - ICC and Globecom conferences in the works
    - ◆ Globecom 2014
    - ◆ ICC 2015
    - ◆ Globecom 2015
    - ◆ Beyond Globecom 2015
  - Other Conferences
- ◆ **TAOS P&P**
- ◆ Other activities/updates
- ◆ Questions & discussions
- ◆ Awards

## New Secretary and Industry Liaison

- ◆ Michael Devetsikiotis is taking up new ComSoc position w/ potential conflict w/ TC chairpersonship and will retire as TAOS Vice Chair
- ◆ Per P&P, Ahmed Kamal is elevated to TAOS Vice Chair
- ◆ TAOS Steering Committee has nominated Athanassios Manikas as new Secretary (as of January 1, 2014). Election shall take place in this meeting
- ◆ A new position, Industry Liaison, is introduced (appointed position), the responsibilities of which are:
  - Update membership about industrial progress and developments of technical/social interest to TAOS community
  - Develop a TAOS Industrial Newsletter to be published regularly (it is suggested to issue it semiannually)
- ◆ Filippo Cugini has been appointed as TAOS Industry Liaison, effective January 1, 2014

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## Bio of Athanassios Manikas

- ◆ Professor, Chair of Communications and Array Processing, Department of Electrical & Electronic Engineering, Imperial College London
- ◆ Fellow of IET (former IEE); Fellow of the Institute of Mathematics & its Applications; Senior MIEEE.
- ◆ Research areas include: Antenna Arrays, Space-time Comms, Array Comms, Arrayed Wireless Access Networks, Arrayed WSNs, Manifolds, Diff. Geometry.
- ◆ Editorial Boards:
  - IET Signal Processing,
  - The Scientific World Journal (Communications)
  - The Journal on Telecom and Digital Media, Global Science and Technology Forum (GSTF)
- ◆ Recent Chairs/Co-Chairs: ICC-13 (SAC, Green Comms), ICC-15 (TPC Chair)

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## Bio of Filippo Cugini

- ◆ Head of research, National Laboratory of Photonic Networks, CNIT, Pisa, Italy.
- ◆ Research interests include: theoretical and experimental study of optical communications:
  - Ethernet, GMPLS and PCE protocols and architectures,
  - Survivability and traffic engineering in IP over optical networks,
  - Multi-rate flexible optical networks,
  - Software defined networking
- ◆ Co-chair in several international symposia, including:
- ◆ ONS Symposium at GLOBECOM 2010, and SAC ANS at Globecom 2013
- ◆ Chair, Workshop on Flexible Optical Networks at GLOBECOM 2012
- ◆ Serves as Editorial Board Member of the Elsevier Optical Switching and Networking journal.
- ◆ Co-author of twelve international patents and more than one hundred IEEE publications

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## Other Highlights and Trends

- ◆ TAOS Recertification
  - We received initial report (positive), and expecting official outcome after BoG Meeting
- ◆ We are revisiting TAOS P&P Polices
  - Now soliciting Membership Input, in this meeting, and through December 20, 2013
- ◆ Definition of TC Active Membership
- ◆ TAOS' Access Networks and Systems (ANS) SAC Track is back to average submission figures
  - Wireless & optical strike a balance and lead DSL in ICC 2014
- ◆ Green Communication Systems and Networks (GCSN) continues to dominate SAC

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## Conferences Update (1/8) ICC 2013 (Budapest, Hungary)

- ◆ SAC Access Track, chaired by M. Peeters, received 13 papers, 6 accepted (46.2%)
- ◆ SAC GCSN, chaired by A. Manikas, received 105 papers, 41 accepted (39%)
- ◆ ONS Symposium, co-chaired by F. Callegati, received 78 papers, 48 in networks and 30 in systems. 31 accepted (39.7%)
- ◆ Green Track papers constitute 42.7% of SAC's accepted papers, Access Track papers distribution in table below. Other details and statistics were presented in Budapest

<u>SAC AN Track Statistics ICC'13</u>	Optical	Wireless	Optical/Wireless Integration	xDSL	Cable (HFC & IPTV)	Others	Total
Submitted	2	1	1	8	0	1	13
Accepted	0	0	0	6	0	0	6

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## Conferences Update (2/8) GC 2013 (Atlanta, Georgia)

- ◆ **SAC Symposium:** 1105 authors: 41.6% from Asia/Pacific; 30.3% from Europe, Middle East, and Africa; 25.5% for NA (20.3% US); and 2.5% from Latin America
- ◆ SAC Access Track, chaired by Filippo Cugini, received 30 papers, 11 accepted (36.7%), 3.4 reviewers per paper (statistics below)
- ◆ SAC GCSN, co-chaired by Stefano Bregni, received 92 papers out of which 36 accepted (39%)
- ◆ **ONS Symposium**, co-chaired by S. J. Ben Yoo: received 63 papers, 50.6% in systems and 49.4% in networks. 24 papers accepted, roughly 12 in systems and 12 in networks

<u>SAC AN Track Statistics GC'13</u>	Optical	Wireless	Optical/Wireless Integration	xDSL	Cable (HFC & IPTV)	Others	Total
Submitted	6	6	9	4	5	0	30
Accepted	3	2	2	2	2	0	11

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## Conferences Update (3/8) ICC 2014 (Sydney, Australia)

- ◆ **SAC Symposium:** Access Track, chaired by Tarek El-Bawab, received 18 papers, 4-5 reviewers per paper, submission statistics below
- ◆ **SAC Symposium:** GCSN, co-chaired by Jaafar Elmighani, received 105 papers. While some papers are still under review, an average of 3+ reviews is anticipated
- ◆ **ONS Symposium,** co-chaired by Philippe Perrier and Nathan Gomes: received 75 papers, 44% in systems and 56% in networks
- ◆ **Papers selection process not completed yet for ICC 2014**

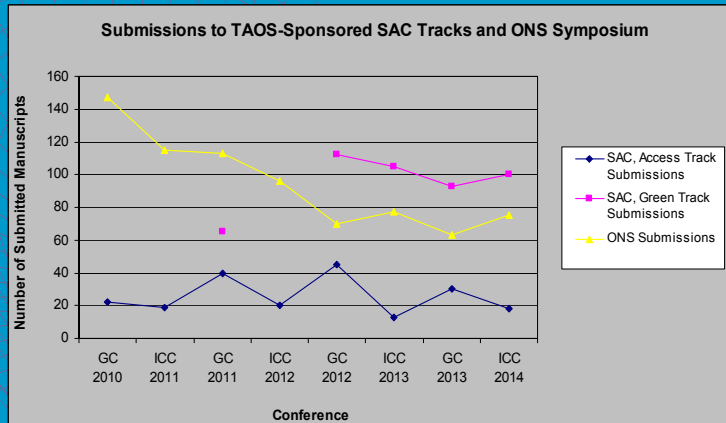
<u>SAC AN Track Statistics ICC'13</u>	Optical	Wireless	Optical/Wireless Integration	xDSL	Cable (HFC & IPTV)	Others	Total
Submitted	6	6	3	3	0	0	18
Recommended for Acceptance	---	---	---	---	---	---	---

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## Conferences Update (4/8) SAC & ONS Trends, 2010 thru mid-2014

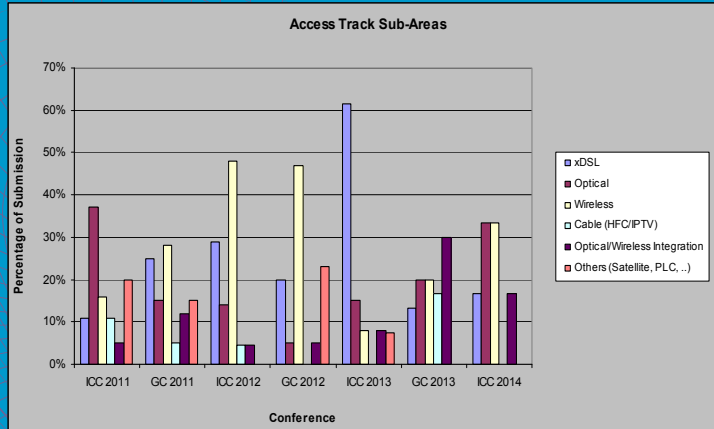


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## Conferences Update (5/8) SAC Access Track: 2011 thru mid-2014

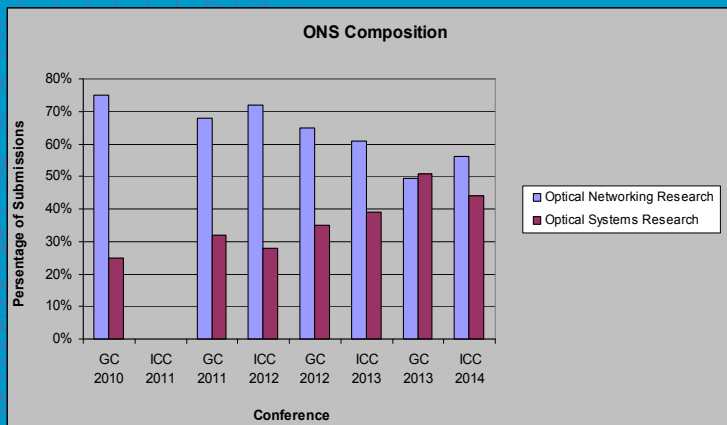


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## Conferences Update (6/8) ONS- Networks versus Systems, 2011 thru mid-2014



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## Conferences Update (7/8) ICC & GC in the works

- ◆ GC 2014 (Austin), Co-Chairs:
  - Frank Effenberger for SAC ANS
  - Fabrizio Granelli for SAC GCSN
- ◆ ICC 2015 (London), Nathan Gomes and Athanassios Manikas are serving as Conference TPC Chair. The following TAOS Co-Chairs are serving too:
  - Jaafar Elmirghani for SAC GCSN, and chairing SAC
  - Jochen Maes for SAC ANS
  - Luca Valcarenghi for ONS
- ◆ GC 2015 (San Diego), approved TAOS co-chairs:
  - Hakki C. Cankaya for SAC ANS
  - Abdallah Shami for SAC GCSN
  - Jean Armstrong for ONS
- ◆ ICC 2016 (Kuala Lumpur), and GC'2016 (Washington DC), ICC 2017 (Paris) Calls for nominations not issued yet

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## Conferences Update (8/8) Other Conferences

- ◆ ONDM 2014 (new)
  - Andrea Bianco, Ravi Subrahmanyam, and Anna Tzanakaki are nominated as TPC members
- ◆ NOC 2014 (new)
  - Stefano Bregni serving as Executive Co-Chair (ComSoc Liason), Tibor Cinkler and Luca Valcarenghi are TPC members
- ◆ LATINCOM 2013
  - Michael Devetsikiotis serves as TPC Co-Chair, and TPC members provided
- ◆ HONET 2013
  - Ahmed Kamal serves as TPC Chair, and TPC members provided
- ◆ 2013 & 2014 NIST-ATIS-Telcordia Synchronization workshops
  - Ravi Subrahmanyam and Stefano Bregni are members of the steering group

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## TAOS P&P

- ◆ The last Time TAOS Policies and Procedures (P&P) were visited was in January 2013. No changes were proposed
  - Members' inputs in regards to TAOS P&P, and proposals for reviews, if any, are welcome and we are soliciting such inputs as of today through December 20, 2013
  - Definition of Active TAOS Membership is an issue of current interest in ComSoc (with respect to all TCs)

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## Other Activities/Updates (1/2)

- ◆ TAOS' members contributing ComSoc leadership in other areas (in technical/administrative capacities):
  - Stefano Bregni elected VP, Members Relations, as of January 1, 2014
  - Stefano Bregni and Steve Gorshe are current BoG members at large
  - Steve Gorshe Director of Magazines
  - Tarek El-Bawab Board Member, Education Board, and Chairs Work Group on Telecommunication Engineering Education in the US
    - ◆ New ABET Accreditation Criteria for Electrical, Computer, and Communication Engineering Anticipated in Fall 2015
  - Jaafar Elmirghani Chair of a cross IEEE Societies Green ICT Working Group.
    - ◆ Tarek El-Bawab represents TAOS in the Group
  - Michael Devetsikiotis Vice Chair of GITC

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## Other Activities/Updates (2/2)

- ◆ ComSoc leadership (cont.):
  - Martin Reisslein Elevated to IEEE Fellow Grade
  - Fabrizio Granelli (2<sup>nd</sup> term), Ahmed Kamal and Anura Jayasumana are Distinguished Lecturers
  - Tarek El-Bawab, Frank Effenberger and Ravi Subrahmanyam serve in IEEE Communication Magazine Editorial team
  - Stefano Bregni serves in Ad Hoc Committee on Smart Grid Communications
  - Michael Devetsikiotis serves in Ad Hoc Committee on Cloud Communications and Networking
  - Ravi Subrahmanyam serves in Editorial Board of Communications Technology News (CTN) initiative
- ◆ TAOS is seeking new volunteers to participate and enrich our scope of technical activities
  - From both industry and academia
  - From all over the world
  - **We Want to see Workshops, Tutorials, Panels, and special publication issues with industrial contributions in particular**

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## Questions?



- ◆ We conclude next with the 2013 TAOS Award presentation

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## Awards

- ◆ Certificate of Appreciation to Michael Devetsikiotis for 3-years service as TAOS Secretary and Vice Chair

Thank You for you interest in TAOS

*Meeting Adjourned!*