



Technical Committee on Transmission, Access, and Optical Systems

Authors: Ahmed E. Kamal, Athanassios Manikas and Fabrizio Granelli

Date/Time: Wed, December 9, 2015, 7:30 am – 9:00 am

Meeting Location: Room Gaslamp2, Omni San Diego Hotel, San Diego, CA, U.S.A.

Officers: Ahmed E. Kamal, Chair, kamal@iastate.edu
Athanassios Manikas, Vice-Chair, a.manikas@imperial.ac.uk
Fabrizio Granelli, Secretary, granelli@disi.unitn.it

Meeting was called to order at 7:30 am

1. Participants (30)

- Athanassios Manikas, Imperial College of London, UK
- K. Hamdi, Manchester University, UK
- Fabrizio Granelli, University of Trento, Italy
- Tarek El-Bawab, Jackson State University, USA
- Jaafar Elmirghani, University of Leeds, UK
- Hakki Cankaya, Fujitsu, USA
- George Rouskas, North Carolina State University, USA
- Martin Reisslein, Arizona State University, USA
- Ekram Hossain, University of Manitoba, Canada
- Walter Ceroni, University of Bologna, Italy
- Luca Valcarengi, Scuola Superiore S'Anna, Italy
- Filippo Cugini, CNIT, Italy
- Jean Armstrong, Monash University, Australia
- Ahmed Kamal, Iowa State University, USA
- Vidhya Sridhar, Imperial College London, UK
- Thubaud Gabellard, Imperial College London, UK

- Akindayin Akinbiyi, Imperial College London, UK
- Xiang Liu, Huawei, USA
- Michael Devetsikiotis, North Carolina State University, USA
- Akhilesh Thyagaturu, Arizona State University, USA
- Christos Verikoukis, CTTC, Spain
- Cicek Cavdar, KTH, Sweden
- Admela Jukan, Technischen Universität Braunschweig, Germany
- Divanilson Campelo, UFPE, Brazil
- Zuqing Zhu, University of Science and Technology of China, China
- Paolo Monti, KTH, Sweden (*)
- Jochen Maes, Alcatel-Lucent Bell Labs, Belgium (*)
- Mamum Guenach, Alcatel Lucent (*)
- Zexi Fang, Imperial College London, UK (*)
- Evan Venieris, Imperial College London, UK (*)

(*) online participation

2. Introduction

The Chair Ahmed Kamal welcomed all participants and outlined the agenda. First, the attendees were self-introduced. Then, the attached slides were presented by the Chair and discussed item-by-item.

3. Approval of the ICC 2015 Minutes

A motion was made by Fabrizio Granelli to approve the ICC 2015 minutes, the draft of which is posted on TAOS website (www.comsoc.org/~taos), amended with such modification. The motion was seconded by Jean Armstrong and the minutes were approved without further remarks.

4. Highlights and Trends

Ahmed informed the attendees about a number of developments and in particular:

- Fourth issue of TAOS' Newsletter released on Dec. 1, 2015
 - The focus of the new issue is to report on R&D activities in the industry
 - Filippo Cugini has completed his 2 year term as industry liaison and newsletter editor
 - Motion at conference council about TC newsletter
- Continued sponsorship of two GC/ICC SAC Tracks:
 - Broadband Access (Access Networks and Systems, ANS)
 - Green Communication Systems and Networks (GCSN)

- GCSN has been elevated to a separate Symposium starting ICC 2016 in Kuala Lumpur, Malaysia
- Continued sponsorship of GC/ICC's Optical Networks and Systems Symposium

More information is provided in Slide # 4.

5. Conference updates

Main GC/ICC submission trends have not significantly changed. ONS continues to be at the lower end of symposia submissions. On the other hand, the SAC Track on Green Communication Systems and Networks has the largest number of submissions in SAC and was elevated to a symposium during last GITC meeting in GC'2014. In Globecom 2015, TAOS sponsored additional events:

- **Workshop:** Optical Wireless Communications Chaired by Shlomi Arnon, Julian Cheng, Yeong Min Jang, and Murat Uysal (Sunday):
 - 21 papers submitted, 12 accepted organized in 3 regular sessions + 1 poster session + 3 invited speakers
 - Attendees: about 30
- **Tutorials:**
 - Optical Wireless Communications by Jean Armstrong, Maite Brandt-Pearce and Zhengyuan Xu (Sunday):
 - Attendees: about 15
 - Designing Next Generation Energy Efficient Wireless Networks by Fabrizio Granelli, Marco Di Renzo, Christos Verikoukis and Abbas Jamalipour (Sunday):
 - Attendees: about 30
- **Panels:**
 - Optical Access Network Status and Directions (Monday) organized by Yuanqiu Lou and Frank Chang
 - 5G Radio Access Network Technologies: from Concept to Reality (Wednesday) organized by Peiyong Zhu and Wonil Roh
 - Education and Training for the Next Generation of Communications Engineers (Wednesday) organized by Fabrizio Granelli and Michael Devetsikiotis with participation by Fabrizio, Michael, Tarek, Michele Zorzi and Erik Luther

The Chair reviewed future events, underlining TAOS involvement in the Organizing and Technical Committees:

- ◆ ICC 2016 (Kuala Lumpur, Malaysia): Stefano Bregni and Nelson Fonseca as Technical Program Co-Chairs; Tarek El-Bawab and Fabrizio Granelli as Workshop Co-Chairs
 - **Green Communications Symposium:** co-chaired by Anura Jayasumana: Received 108 papers
 - **SAC Symposium:** ANS Track, chaired by Ahmed Kamal: Received 22 papers; Track statistics are shown on slide #9.
 - **ONS Symposium:** co-chaired by Walter Ceroni and Krishna Sivalingam: Received 109 papers
 - ◆ 65 papers on systems (about 60%)
 - ◆ 44 papers on networks (about 40%)
- ◆ 17 workshops are accepted (submission deadline has been extended to Dec. 18)
 - Second Workshop on Optical Wireless Communications:

- ◆ Chaired by Mauro Biagi, Zabih Ghassemlooy and Anna Maria Vegni
- Workshop on Wireless-Fiber Integration
 - ◆ Chaired by Wai-Pang Ng, John Mitchell, Gangxiang (Steven) Shen and Martin Maier
- Workshop on Novel Medium Access and Resource Allocation for 5G Networks
 - ◆ Chaired by Antti Tölli, Pinyi Ren and Shahid Mumtaz
- Workshop on Next Generation Backhaul/Fronthaul Networks (BackNets'2016)
 - ◆ Chaired by Muhammad Zeeshan Shakir, Muhammad Ali Imran and David J. Love
- ◆ **GC 2016 (Washington DC)**, TAOS nominated (approved by TPC Chairs)
 - Luca Valcarenghi as chair for SAC ANS
 - Taisir Elgorashi as co-chair for GCSN
 - Filippo Cugini as co-chair for ONS
- ◆ **ICC 2017 (Paris)**, TAOS nominated
 - Steve Hranilovic as chair for SAC ANS
 - Cicek Cavdar as co-chair for GCSN
 - George Rouskas as co-chair for ONS
- ◆ **GC 2017 (Singapore)**, TAOS nominated, to be verified
 - Mamoun Guenach as chair for SAC ANS
 - Jaafar Elmirghani as co-chair for GCSN
 - Paolo Monti as co-chair for ONS
- ◆ **ICC 2018 (Kansas City)**
- ◆ **GC 2018 (Abu Dhabi)**
- ◆ **ICC 2019 (Shanghai)**
- ◆ **GC 2019 (Hawaii)**

Other Conferences (Including TCS)

- ◆ ITU-K 2015
 - F. Granelli, R. Subrahmanyam and M. Guenach
- ◆ EuCNC 2015
 - S. Bregni and T. El-Bawab TPC co-Chairs, and F. Cugini TPC member
- ◆ NIST-ATIS-Telcommunications Systems Synchronization Workshop 2015
 - S. Bregni is COMSOC liaison and TAOS representative, and R. Subrahmanyam is a TPC member
- ◆ DRCN 2016
 - Nelson Fonseca is TAOS representative, and Fabrizio Granelli is TPC member
- ◆ ONDM 2016
 - Franco Callegati is TAOS representative, and Andrea Bianco and Jaafar Elmirghani are TPC members
- ◆ Green Track at VTC Spring 2016 (first time):
 - First major collaboration between the IEEE Green ICT Initiative with IEEE Vehicular Technology Society
 - Track co-chairs:
 - ◆ Burak Kantarci, Emad Alsusa and Jaafar Elmirghani
 - 39 TPC members
 - 47 paper submissions
- ◆ Panel title: "Future Internet and Smart Cities"
 - Organized by Jaafar Elmirghani
 - Simulcast at IEEE Green Comm 2015

- Focus: To address in one panel the technical (Green Comm), environmental, economic and social (ISTAS) implications of Green technologies with two diverse groups of audience at the same time

More information is provided in Slides # 5 to # 17.

6. Other Activities/Updates

Contributions of TAOS members to current ComSoc leadership have been stated as follows:

- Stefano Bregni, Tarek El-Bawab, Steve Gorshe, Nelson Fonseca and Stefano Galli serve in ComSoc Board of Governors:
 - Stefano Bregni is Vice President, Members Relations
 - Tarek El-Bawab is Director, Conference Operations
 - Steve Gorshe is Director of Magazines
 - Nelson Fonseca is Director, Conference Development
 - Stefano Galli is Chief information Officer
- Michael Devetsikiotis is Chair of GITC, Fabrizio Granelli is Member At Large for 2014-15
- Tarek El-Bawab, Michael Devetsikiotis, and Fabrizio Granelli are Board Members, Education and Training Board (ETB)

The ComSoc Green ICT initiative was successful in Phase-I funding (by IEEE). The initiative is now with Comsoc and Co-Chaired by Jaafar Elmirghani. Furthermore, Tarek El-Bawab represents TAOS in this activity. More information is provided in the following website: <http://greenict.ieee.org>

In addition, TAOS is contributing to the Distinguished Lecturers (DL) program, with Jaafar Elmirghani, Fabrizio Granelli (2nd term) and Anura Jayasumana. New DLs (15 were selected on 48 applications) are Tarek El-Bawab, Athanassios Manikas, and Abdallah Shami.

Fabrizio Granelli represents TAOS in ComSoc Rapid standardization activity, and Chairs the Research Group on Software Defined and Virtualized Wireless Access. Stefano Bregni serves in Ad Hoc Committee on Smart Grid Communications and Michael Devetsikiotis serves in Ad Hoc Committee on Cloud Communications and Networking.

TAOS members holding editorial positions include:

- George Rouskas, Editor-in-Chief of Elsevier's Journal of Optical Switching and Networking (OSN)
- Tarek El-Bawab, Frank Effenberger, and Ravi Subrahmanyam, IEEE Communications Magazine
- Filippo Cugini and Ahmed Kamal, Elsevier's Journal of Optical Switching and Networking (OSN)
- Fabrizio Granelli, Paolo Monti and Ahmed Kamal, IEEE Communications Surveys and Tutorials

Emphasis has been given, once again, on the TC's continuing policy to look for new volunteers and activists to contribute and lead ComSoc activities.

For more information, please see Slides # 18 to # 21.

7 Awards

The Best Paper Award in the Globecom 2015's Access Networks and Systems (ANS) Track, Symposium on Selected Areas in Communications (SAC) was presented to the paper: "*Bandwidth-Efficient Synchronous Transmission of I/Q Waveforms and Control Words via Frequency-Division Multiplexing for Mobile Fronthaul*", authored by:

Xiang Liu, Futurewei Technologies, USA

Huaiyu Zeng, Futurewei Technologies, USA
Frank Effenberger, Huawei Technologies, USA

The TAOS Best Paper Award in the Globecom 2015's Green Communication Systems and Networks (GCSN) Track, Symposium on Selected Areas in Communications (SAC) was presented to the paper: "*On Resource Allocation for Downlink Power Minimization in OFDMA Small Cells in a Cloud-RAN*", authored by:

Amr Abdelnasser, University of Manitoba, Canada
Ekram Hossain, University of Manitoba, Canada

Tarek El-Bawab received the IEEE Communications Society Education Award for
"For outstanding contributions to the definition, and to the accreditation criteria, of modern communication/telecommunication engineering education; and for making changes to our education system that benefit our community, society, and the profession."

The award was presented GLOBECOM 2015 in San Diego, CA during the Awards Ceremony/Luncheon on Monday, 7 December.

The meeting was adjourned at 9:00 am

Attachments: Meeting Slides

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

**GLOBECOM 2015 TC meeting,
SAN DIEGO, CA
Wednesday DECEMBER 9, 2015
Room Gaslamp 2
Omni San Diego, San Diego, CA
07:30 – 09:00**

**Ahmed E. Kamal
Chair, TAOS**

Agenda

- ◆ **Welcome and Introductions**
- ◆ **Approval of the ICC 2015 minutes of meeting (London)**
- ◆ **Highlights and Trends**
- ◆ **Conferences update (sponsorships and statistics)**
 - **Globecom 2015 and ICC 2016**
 - **ICC/Globecom statistics (2010-2015)**
 - **ICC and Globecom conferences in the works**
 - ◆ **Globecom 2016**
 - ◆ **ICC 2017**
 - ◆ **Globecom 2017**
 - ◆ **Beyond Globecom 2017**
 - **Other Conferences (Including TCS)**
- ◆ **Other Activities/Updates**
- ◆ **TAOS Best Paper Awards**
- ◆ **Any Other Business**

- ◆ Introduction
- ◆ Approval of the minutes of the TAOS TC meeting at ICC 2015:

[http://committees.comsoc.org/taos/docs/minutes_of_meeting\(ICC15\)+slides.pdf](http://committees.comsoc.org/taos/docs/minutes_of_meeting(ICC15)+slides.pdf)

Highlights and Trends

- ◆ **Fourth issue of TAOS' Newsletter released on Dec. 1, 2015**
 - Focus is to report on R&D activities in the industry
 - Filippo Cugini has completed his 2 year term as industry liaison and newsletter editor 🙌
- ◆ **Continued sponsorship of two GC/ICC SAC Tracks:**
 - **Broadband Access (Access Networks and Systems, ANS)**
 - **Green Communication Systems and Networks (GCSN)**
 - ◆ **GCSN has been elevated to a separate Symposium starting ICC 2016 in Kuala Lumpur, Malaysia**
- ◆ **Continued sponsorship of GC/ICC's Optical Networks and Systems Symposium**

Conferences Update (1/13)

Globecom 2015 (San Diego, CA)

- ◆ Globecom 2015 (San Diego), Ramesh Rao: Technical Program Chair
 - **SAC Symposium:** Green Communication Track co-chaired by Abdallah Shami: Received 107 papers, and accepted 39 papers (36.5%) in 7 sessions
 - **SAC Symposium:** ANS Track, chaired by Hakki Cankaya: Received 32 papers, and accepted 11 papers (34.4%) in 2 sessions. Track statistics are below.

SAC ANS Track Statistics	Optical	Wireless	Optical/Wireless Integration	xDSL	Cable (HFC & IPTV)	PLC	Others	Total
Submitted	5	12	4	7	---	---	4	32
Accepted	2	2	2	4	---	---	1	11

- **ONS Symposium:** co-chaired by Jean Armstrong and Maite Brandt-Pearce : Received 85 papers and accepted 33 papers (38.8%) in 5 sessions + 3 posters
 - ◆ 12 papers on optical wireless
 - ◆ 21 papers on optical fibers

Conferences Update (2/13)

Gobecom 2015 (San Diego, CA)

- ◆ **21 workshops**, 17 tutorials and 19 panels
- ◆ **Workshop:** Optical Wireless Communications Chaired by Shlomi Arnon, Julian Cheng, Yeong Min Jang, and Murat Uysal (Sunday):
 - 21 papers submitted, 12 accepted organized in 3 regular sessions + 1 poster session + 3 invited speakers
 - Attendees: about 30

Conferences Update (3/13) Gobecom 2015 (San Diego, CA)

- ◆ 21 workshops, **17 tutorials** and 19 panels
- ◆ **Tutorials:**
 - Optical Wireless Communications by Jean Armstrong, Maite Brandt-Pearce and Zhengyuan Xu (Sunday):
 - ◆ Attendees: about 15
 - Designing Next Generation Energy Efficient Wireless Networks by Fabrizio Granelli, Marco Di Renzo, Christos Verikoukis and Abbas Jamalipour (Sunday):
 - ◆ Attendees: about 30

Conferences Update (4/13) Gobecom 2015 (San Diego, CA)

- ◆ 21 workshops, 17 tutorials and **19 panels**
- ◆ **Panels:**
 - Optical Access Network Status and Directions (Monday) organized by Yuanqiu Lou and Frank Chang
 - 5G Radio Access Network Technologies: from Concept to Reality (Wednesday) organized by Peiying Zhu and Wonil Roh
 - Education and Training for the Next Generation of Communications Engineers (Wednesday) organized by Fabrizio Granelli and Michael Devetsikiotis with participation by Fabrizio, Michael, Tarek, Michele Zorzi and Erik Luther

Conferences Update (5/13)

ICC 2016 (Kuala Lumpur, Malaysia)

- ◆ Kuala Lumpur (Malaysia): Stefano Bregni and Nelson Fonseca as Technical Program Co-Chairs; Tarek El-Bawab and Fabrizio Granneli as Workshop Co-Chairs
 - **Green Communications Symposium:** co-chaired by Anura Jayasumana: Received 108 papers
 - **SAC Symposium:** ANS Track, chaired by Ahmed Kamal: Received 22 papers; Track statistics are below.

SAC ANS Track Statistics	Optical	Wireless	Optical/Wireless Integration	xDSL	Cable (HFC & IPTV)	PLC	Others	Total
Submitted	3	2	6	4	---	1	6	22
Accepted	---	---	---	---	---	---	---	---

- **ONS Symposium:** co-chaired by Walter Ceroni and Krishna Sivalingam: Received 109 papers
 - ◆ 65 papers on systems (about 60%)
 - ◆ 44 papers on networks (about 40%)

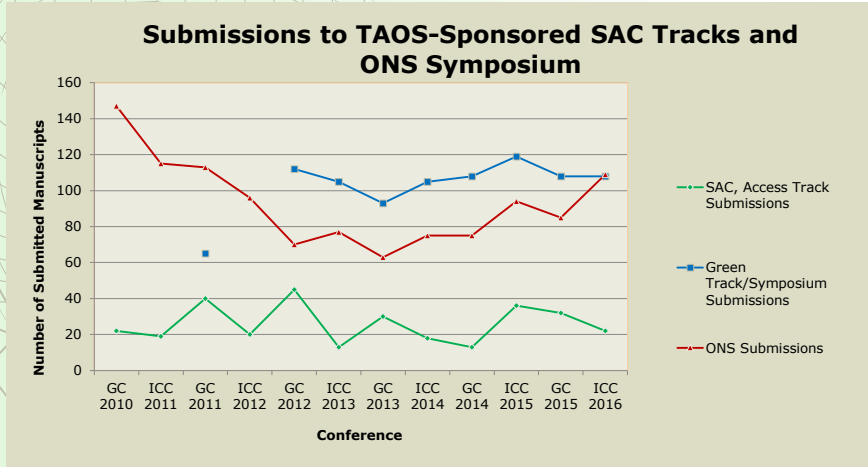
Conferences Update (6/13)

ICC 2016 Workshops and Tutorials and Panels

- ◆ 17 workshops (deadline has been extended to Dec. 18)
 - Second Workshop on Optical Wireless Communications:
 - ◆ Chaired by Mauro Biagi, Zabih Ghassemlooy and Anna Maria Vegni
 - Workshop on Wireless-Fiber Integration
 - ◆ Chaired by Wai-Pang Ng, John Mitchell, Gangxiang (Steven) Shen and Martin Maier
 - Workshop on Novel Medium Access and Resource Allocation for 5G Networks
 - ◆ Chaired by Antti Tölli, Pinyi Ren and Shahid Mumtaz
 - Workshop on Next Generation Backhaul/Fronthaul Networks (BackNets'2016)
 - ◆ Chaired by Muhammad Zeeshan Shakir, Muhammad Ali Imran and David J. Love

Conferences Update (7/13)

SAC & ONS Trends, 2010 thru 2016



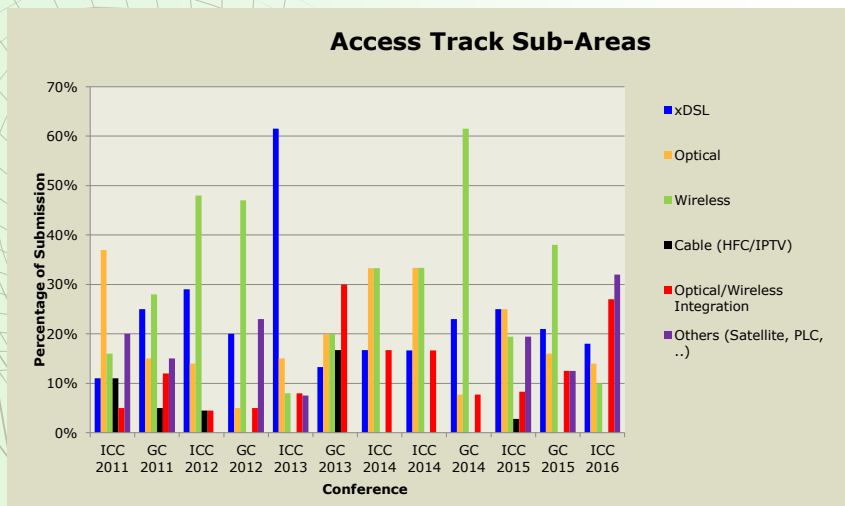
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Conferences Update (8/13)

SAC Access Track (All areas): 2011 thru 2016



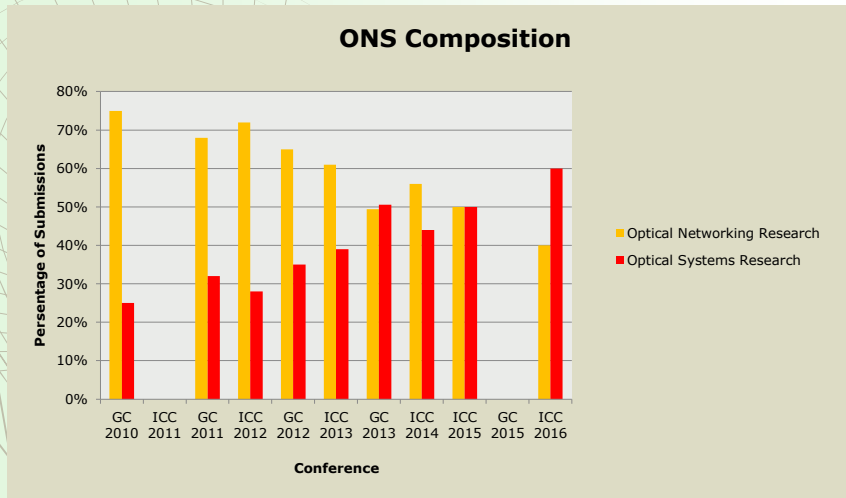
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Conferences Update (9/13)

ONS Symposium: 2010 thru 2016



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TAOS meeting, Globecom 2015, San Diego

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Conferences Update (10/13)

Future ICC & GC

- ◆ **GC 2016 (Washington DC), TAOS nominated (and approved)**
 - Luca Valcarenghi as chair for SAC ANS
 - Taisir Elgorashi as co-chair for SAC GCSN
 - Filippo Cugini as co-chair for ONS
- ◆ **ICC 2017 (Paris), TAOS nominated (and approved)**
 - Steve Hranilovic as chair for SAC ANS
 - Cicek Cavdar as co-chair for GCSN
 - George Rouskas as co-chair for ONS
- ◆ **GC 2017 (Singapore), TAOS nominated**
 - Mamoun Guenach as chair for SAC ANS
 - Jaafar Elmighani as co-chair for GCSN
 - Paolo Monti as co-chair for ONS
- ◆ **ICC 2018 (Kansas City)**
- ◆ **GC 2018 (Abu Dhabi)**
- ◆ **ICC 2019 (Shanghai)**
- ◆ **GC 2019 (Hawaii)**

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Conferences Update (11/13) Other Conferences (Including TCS)

- ◆ ITU-K 2015
 - F. Granelli, R. Subrahmanyam and M. Guenach
- ◆ EuCNC 2015
 - S. Bregni and T. El-Bawab TPC co-Chairs, and F. Cugini TPC member
- ◆ NIST-ATIS-Telcommunications Systems Synchronization Workshop 2015
 - S. Bregni is COMSOC liaison and TAOS representative, and R. Subrahmanyam is a TPC member
- ◆ DRCN 2016
 - Nelson Fonseca is TAOS representative, and Fabrizio Granelli is TPC member
- ◆ ONDM 2016
 - Franco Callegati is TAOS representative, and Andrea Bianco and Jaafar Elmirghani are TPC members

Conferences Updates (12/13) Vehicular Technology Conference (VTC) Spring 2016

- ◆ Green Track at VTC Spring 2016 (first time):
 - First major collaboration between the IEEE Green ICT Initiative with IEEE Vehicular Technology Society
 - Track co-chairs:
 - ◆ Burak Kantarci, Emad Alsusa and Jaafar Elmirghani
 - 39 TPC members
 - 47 paper submissions

Conferences Updates (13/13)

Industry Panel at IEEE International Symposium on Technology and Society (ISTAS) 2015

- ◆ Panel title: “Future Internet and Smart Cities”
- ◆ Organized by Jaafar Elmirghani
- ◆ Simulcast at IEEE Green Comm 2015
- ◆ Focus:
 - Address in one panel the technical (Green Comm), environmental, economic and social (ISTAS) implications of Green technologies with two diverse groups of audience at the same time

Other Activities/Updates (1/4)

- ◆ **TAOS' members contributions to ComSoc leadership:**
 - Stefano Bregni, Tarek El-Bawab, Steve Gorshe, Nelson Fonseca and Stefano Galli serve in ComSoc Board of Governors
 - ◆ Stefano Bregni is VP, Members Relations
 - ◆ Tarek El-Bawab is Director, Conference Operation
 - ◆ Steve Gorshe is Director of Magazines
 - ◆ Nelson Fonseca is Director of Conference Development
 - ◆ Stefano Galli is Chief Information Officer
 - Michael Devetsikiotis is Chair of GITC
 - Tarek El-Bawab, Michael Devetsikiotis, and Fabrizio Granelli are Board Member, Education and Training Board (ETB)

Other Activities/Updates (2/4)

- ◆ IEEE/ComSoc Green ICT initiative successful in Phase I funding (by IEEE). Initiative Co-Chaired by Jaafar Elmirghani.
 - Tarek El-Bawab represents TAOS in this activity

2015 Green ICT Roadmap & Milestones Year 1 Objective: Establish Initiative Foundation



	1Q'15	2Q'15	3Q'15	4Q'15
IEEE Events (Content Contributions or Patronage)	<ul style="list-style-type: none"> • ICCE 2015 • CCNC 2015 • OFC 2015 • ICEIT 2015 • INTELECT 2015 	<ul style="list-style-type: none"> • IM 2015 • SmartGreens • ICC 2015 • GreenTouch workshop 	<ul style="list-style-type: none"> • VTC Fall '15 • PIMRC 2015 • GeSI (NYC) event – presenting Smarter 2030 Report 	<ul style="list-style-type: none"> • ICUWB 2015 • ICTT 2015 • ISTAS 2015 • Virtual GreenComm • GLOBECOMM 2015
IEEE Collaboration	<ul style="list-style-type: none"> • IEEE Societies GreenTouch • Steering Committee Creation • JSAC Green Section CFP #1 	<ul style="list-style-type: none"> • Communications Magazine Initiative Launch & Green Series 	<ul style="list-style-type: none"> • "Sustainable ICT" Magazine Proposal • JSAC Green CFP #2 • IEEE TVT – Green Series 	<ul style="list-style-type: none"> • "Sustainable ICT" Magazine proposal • Communications Magazine Green Series • IoT Initiative (webinar)
GICT Community Building	<ul style="list-style-type: none"> • Tech. Community Expansion • Logo Contest 	<ul style="list-style-type: none"> • Social Media 	<ul style="list-style-type: none"> • Social Media 	<ul style="list-style-type: none"> • E-Newsletter • Big Data Initiative engagement
Outreach	<ul style="list-style-type: none"> • Portal Development 	<ul style="list-style-type: none"> • GICT Portal go-live 	<ul style="list-style-type: none"> • Portal Content Curation 	<ul style="list-style-type: none"> • Portal Content Curation
Education & New Component		<ul style="list-style-type: none"> • ICTON (J.Elmirghani, Dist. Lecture) • NOC (J.E. DL) 		<ul style="list-style-type: none"> • APC 2015 (J.E. DL)
Standards	<ul style="list-style-type: none"> • Idea Creation with SA 		<ul style="list-style-type: none"> • Standards Gap Analysis • Strategic Scoping Study (environmental scan for opportunities) 	<ul style="list-style-type: none"> • Rapid Reaction Standardization Workshop (RRSW) • SDI Standards Workshop • "Green" Certification label project Ph.1 (from RRSW)

Other Activities/Updates (3/4)

- ◆ Standardization activities:
 - Fabrizio Granelli
- ◆ Distinguished Lecturers (DLs):
 - Jaafar Elmirghani and Fabrizio Granelli (2nd term)
 - Anura Jayasumana has been renewed for a second term
 - New lecturers (15 out of 48 nominees):
 - ◆ Tarek El-Bawab
 - ◆ Athanassios Manikas
 - ◆ Abdallah Shami

Other Activities/Updates (4/4)

◆ Editorship

- George Rouskas is Editor-in-Chief of Elsevier's Journal of Optical Switching and Networking (OSN)
- Tarek El-Bawab, Frank Effenberger, and Ravi Subrahmanyam, IEEE Communications Magazine
- Filippo Cugini and Ahmed Kamal, Elsevier's Journal of Optical Switching and Networking (OSN)
- Fabrizio Granelli, Paolo Monti and Ahmed Kamal, IEEE Communications Surveys and Tutorials

◆ Other Activities and Updates:

- Fabrizio Granelli represents TAOS in ComSoc Rapid standardization activity, and Chairs the Research Group on Software Defined and Virtualized Wireless Access
- Stefano Bregni serves in Ad Hoc Committee on Smart Grid Communications and Michael Devetsikiotis serves in Ad Hoc Committee on Cloud Communications and Networking
- A. Manikas edited a new book: "Beamforming – Sensor Signal Processing for Defence Applications", Series in Communications and Signal Processing Vol 5, World Scientific Publishing Co Ltd, (2015)

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◆ TAOS is always seeking new volunteers to participate and enrich our scope of technical activities

- From industry and academia
- From all over the world
- Workshops, Tutorials, Panels, and special issues, with industrial contributions in particular

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TAOS AWARDS GLOBECOM 2015 – San Diego

- Two Best Paper Awards

TAOS' Best Paper Awards (1/2)

- ◆ The TAOS Best Paper Award in the GLOBECOM 2015's Access Networks and Systems (ANS) Track, Symposium on Selected Areas in Communications (SAC) is presented to the paper:
 - "Bandwidth-Efficient Synchronous Transmission of I/Q Waveforms and Control Words via Frequency-Division Multiplexing for Mobile Fronthaul"
 - ◆ Xiang Liu, Futurewei Technologies, USA
 - ◆ Huaiyu Zeng, Futurewei Technologies, USA
 - ◆ Frank Effenberger, Huawei Technologies, USA

TAOS' Best Paper Awards (2/2)

- ◆ **The TAOS Best Paper Award in the GLOBECOM 2015's Green Communication Systems and Networks (GCSN) Track, Symposium on Selected Areas in Communications (SAC) is presented to the paper:**
 - **"On Resource Allocation for Downlink Power Minimization in OFDMA Small Cells in a Cloud-RAN"**
 - ◆ Amr Abdelnasser, University of Manitoba, Canada
 - ◆ Ekram Hossain, University of Manitoba, Canada

Other Business

- ◆ Tarek El-Bawab received the IEEE Communications Society Education Award for
 - "For outstanding contributions to the definition, and to the accreditation criteria, of modern communication/telecommunication engineering education; and for making changes to our education system that benefit our community, society, and the profession."
 - Award was presented GLOBECOM 2015 in San Diego, CA during the Awards Ceremony/Luncheon on Monday, 7 December

**Questions?
Other Business?**

Meeting Adjourned!

Ahmed E. Kamal, Dec. 9, 2015

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