



# IEEE COMSOC DIRECTORY

2018

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Harvey



Vijay



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Fambirai



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Stefano



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Joel



Hikmet



Fabrizio



Tarik



Ashutosh



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Saewoong



Adlen



Lisandro



Wahab



Octavia



Tarek



Nada



Ian



Len



Tom



Qian



Lajos



Wanjiun



David



Ricardo



Gerhard



Ekram



Urbashi



Wei

Khaled B. Letaief .....President  
 Harvey Freeman ..... Past President  
 Vijay Bhargava ..... IEEE Division III Director  
 Roberto de Marca .....Parliamentarian  
 Fambirai Takawira .....Treasurer  
 Zhi Ding ..... Chief Information Officer  
 Robert Fish ..... Chief Marketing Officer  
 Susan M. Brooks .....Executive Director

### Vice Presidents

Nelson Fonseca ..... Technical & Educational  
 Activities  
 Stefano Bregni ..... Conferences  
 Nei Kato ..... Member & Global Activities  
 Xuemin (Sherman) Shen ..... Publications  
 Stefano Galli ..Industry & Standards Activities

### Directors

Robert Schober ..... Journals  
 Yuguang (Michael) Fang ..... Magazines  
 Zhisheng Niu ..... Online Content  
 Joel Rodrigues ..... Conference Development  
 Hikmet Sari ..... Conference Operations  
 Fabrizio Granelli ..... Educational Services  
 Tarik Taleb ..... Technical Committees  
 Ashutosh Dutta ..... Industry Outreach  
 Song Guo ..... Membership Services  
 Saewoong Bahk ..... Asia/Pacific Region  
 Adlen Ksentini ..... EMEA Region  
 Lisandro Z. Granville.... Latin American Region  
 Wahab Almuhtadi ..... North American Region  
 Octavia Dobre ..... Sister & Related Societies  
 Tarek S. El-Bawab..... Standards Development  
 Nada Golmie ..... Standardization Programs  
 Development  
 Ian Wong ..... Industry Communities

### Members At Large

2016-2018	2017-2019	2018-2020
Len Cimini	Lajos Hanzo	Gerhard Fettweis
Tom Hou	Wanjiun Liao	Ekram Hossain
Robert Schober	David Michelson	Urbashi Mitra
Qian Zhang	Ricardo Veiga	Wei Zhang



# COMSOC COMMUNITY

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## ORGANIZATION

### BOARD OF GOVERNORS

#### ELECTED OFFICERS 2018-2019 (voting)

President ..... Khaled B. Letaief \*  
 Past President ..... Harvey Freeman \*  
 Vice President - Technical & Educational Activities .Nelson Fonseca \*  
 Vice President - Conferences ..... Stefano Bregni \*  
 Vice President - Member & Global Activities ..... Nei Kato\*  
 Vice President – Publications ..... Xuemin (Sherman) Shen \*  
 Vice President – Industry & Standards Activities ..... Stefano Galli \*

#### APPOINTED OFFICERS 2018-2019 (non-voting)

Treasurer ..... Fambirai Takawira\*  
 Parliamentarian ..... Roberto de Marca \*  
 Chief Information Officer (CIO) ..... Zhi Ding  
 Chief Marketing Officer ..... Robert Fish  
 Director – Journals ..... Robert Schober  
 Director – Magazines ..... Michael Fang  
 Director – Online Content ..... Zhisheng Niu  
 Director – Conference Development ..... Joel Rodrigues  
 Director – Conference Operations ..... Hikmet Sari  
 Director - Educational Services ..... Fabrizio Granelli  
 Director - Technical Services ..... Tarik Taleb  
 Director - Industry Outreach ..... Ashutosh Dutta  
 Director - Membership Services ..... Song Guo  
 Director - Asia/Pacific Region ..... Saewoong Bahk  
 Director - Europe, Middle-East & Africa Region ..... Adlen Ksentini  
 Director - Latin America Region ..... Lisandro Zambenedetti Granville  
 Director - North America Region ..... Wahab Almuhtadi  
 Director - Sister & Related Societies ..... Octavia Dobre  
 Director -Standards Development ..... Tarek El-Bawab  
 Director - Standardization Programs Development ..... Nada Golmie  
 Director – Industry Communities ..... Ian Wong  
 Executive Director ..... Susan M. Brooks\*  
 Recording Secretary ..... Carol Cronin

#### MEMBERS-AT-LARGE (elected-voting)\*

2016-2018	2017-2019	2018-2020
Len Cimini	Lajos Hanzo	Gerhard Fettweis
Tom Hou *	Wanjiun Liao	Ekram Hossain
Robert Schober	David Michelson	Urbashi Mitra
Qian Zhang	Ricardo Veiga *	Wei Zhang *

#### IEEE DIVISION III (elected-voting)

Director ..... \* Vijay Bhargava

\* Operating Committee (OpCom) attendees@ ComSoc Directors, and CIO attend each meeting as determined by President

# TECHNICAL ACTIVITIES



Nelson Fonseca  
*Vice President*

Vice President ..... Nelson Fonseca  
Staff ..... Adam Greenberg

## TECHNICAL ACTIVITIES COUNCIL

Chair..... Nelson Fonseca  
Vice Chair ..... Shiwen Mao

### Technical Committee Chairs

Ad Hoc & Sensor Communications & Networks ..... Cheng Li  
Big Data ..... Jie Li  
Cognitive Networks ..... Jianwei Huang  
Communications & Information Security ..... Abderrahim Benslimane  
Communications Quality & Reliability ..... Scott Poretzsky  
Communications Software ..... Hacène Fouchal  
Communications Switching & Routing ..... Jun Zheng  
Communications Systems Integration & Modeling ..... Christos Verikoukis  
Communication Theory ..... Erik Perrins  
Computer Communications ..... James Sterbenz  
Data Storage ..... Brian Kurkoski  
e-Health ..... Hsi-Pin Ma  
Green Communications & Computing ..... Fei Richard Yu  
Information Infrastructure & Networking ..... Rami Langar  
Innovation & Standards in Information & Communication Technologies .....  
..... SM Hasan  
Internet ..... Dijiang Huang  
Multimedia Communications ..... Shiwen Mao  
Network Operations & Management ..... Filip de Turck  
Optical Networking ..... Xiaojun (Matt) Cao  
Power Line Communications ..... Andrea Tonello  
Radio Communications ..... Andrea Giorgetti  
Satellite & Space Communications ..... Tomaso de Cola  
Signal Processing & Communications Electronics ..... Octavia Dobre  
Social Networks ..... Neeli Prasad  
Tactile Internet ..... Meryem Simsek  
Transmission, Access & Optical Systems ..... Athanassios Manikas  
Wireless Communications ..... Shuguang Cui

### Boards & Standing Committee Chairs in TAC

#### Standing Committees

Awards ..... Chengshan Xiao  
Communications History ..... Dave Michelson  
Distinguished Lecturers Selection ..... Shiwen Mao

Emerging Technologies ..... Jeffrey Andrews  
Fellow Evaluation ..... Sergio Benedetto  
Technical Committees Recertification ..... Nelson Fonseca

### **EDUCATIONAL SERVICES**

Chair/Director ..... Fabrizio Granelli  
Staff ..... Adam Greenberg, Tara Gallus  
Rulei Ting, AT&T  
Michele Zorzi, University of Padova  
David Michelson, University of British Columbia  
Michael Devetsikiotis, University of New Mexico  
Periklis Chatzimisios, ATEITHE & Bournemouth University  
Tarek El-Bawab, Jackson State University  
Rhys Bowley, National Instruments  
Venkatesha Prasad, TUDelft  
Zhensheng Zhang  
Joel Rodrigues  
Carlos Lozano Garzon  
Neelesh Mehta, Indian Institute of Science, Bangalore  
Stefano Giordano, University of Pisa  
Yves Lostanlen , SIRADEL / University of Toronto

### **TECHNICAL SERVICES**

Chair/Director ..... Tarik Taleb

#### **Members:**

TBD

## TECHNICAL COMMITTEES

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Our technical committees define and implement the technical directions of the Society. As a fundamental element of the Society, all members are invited - and encouraged - to participate in one or more of its technical committees. These committees - networks of professionals with common interests in communications - usually meet twice each year at major conferences. Throughout the year, these committees also play a major role in determining which events (conferences, workshops, etc) are technically co-sponsored by ComSoc.

### Ad Hoc & Sensor Communications & Networks (AHSN)

Chair .....	Cheng Li
Vice Chair .....	Soumaya Cherkaoui
Secretary .....	Jiajia Liu
Standards Liaison .....	R. Vekataasha Prasad
Student Competition Program .....	Azzedine Boukerche

This committee serves as ComSoc's focal point in the area of wireless ad hoc and sensor networks technologies and will play an active role in stimulating and organizing leading- edge wireless ad hoc and sensor networks symposia, workshops, sessions and tutorials at ICC, GLOBECOM, SECON and other premier M&C venues.

### Big Data

Chair .....	Jie Li
Vice Chairs.....	Jinsong Wu, Periklis Chatzimisios, Shui Yu, Kwang-Cheng Chen, Mahmoud Daneshmand
Secretary .....	Song Guo
Student Competition .....	Ruidong Li

The goal of the Technical Committee on Big Data (TCBD), IEEE Communications Society, is to provide a premier platform for its members, and the research, development, services, applications, and standardization communities of big data processing, analysis, analytics, integration, retrieval, and networking, to interact and exchange technical ideas, to identify relevant challenges, and to collaborate and investigate solutions in the development of methodology and solution for the sciences and technologies of big data processing, analysis, analytics, integration, retrieval, and networking.

### Cognitive Networks (TCCN)

Chair .....	Jianwei Huang
Vice Chair Asia Pacific .....	Lingyang Song
Vice Chair North America .....	Walid Saad
Vice Chair Europe/Africa .....	Oliver Holland
Secretary .....	Yue Gao
Standards Liaison .....	Oliver Holland



Student Competition Program ..... Liqun Fu

The goal of TCCN is to provide a platform for its members in particular, and the cognitive networking research, development, policy making and standardization community in general, to interact and exchange technical ideas to identify major challenges and also derive solutions in the development of cognitive networking technologies.

### **Communications & Information Security (CIS)**

Chair ..... Abderrahim Benslimane  
Vice Chair for Conferences ..... Francesco Chiti  
Vice Chair for Publications ..... Rongxing Lu  
Secretary ..... Bin Xiao  
Standards Liaison ..... Neeli Prasad  
Student Competition Program ..... Abderrahim Benslimane

This committee promotes security of all types of communication networks and forms of information transported therein, end to end. Security interests start from the network physical layer, ending at the user application layer. It focuses on secure methods and techniques that guard the privacy and information of the user as transported by the network.

### **Communications Quality & Reliability (CQR)**

Chair ..... Scott Poretzky  
Chair-Elect ..... Tetsuya Yokotani  
Vice Chair-Operations ..... Kohei Shiimoto  
Vice Chair-Publications ..... Weider Yu  
Vice Chair- Social Media ..... Chris Mayer  
Vice Chair- Program Development ..... Michael Ryan  
Treasurer ..... Kevin Krantz  
Secretary ..... Tara Timblin  
Student Competition ..... Kohei Shiimoto

This committee focuses on and advocates worldwide communications quality and reliability on behalf of and within the Communications Society. CQR serves as the catalyst for global awareness and the exchange of information relative to technical and management-related aspects of communications quality and reliability.

### **Communications Software (CommSoft)**

Chair ..... Hacene Fouchal  
Vice Chair ..... Adlen Ksentini  
Secretary ..... Abdellatif Kobbane  
Standards Liaison ..... Jaime Lloret  
Student Competition Program ..... Abdellatif Kobbane

The mission of this committee is to advance the state of the art in communications software and its various aspects and applications. It serves as the major forum for discussion among communications software professionals in both the communications and computer industries.

## **Communications Switching & Routing (CSR)**

Chair .....	Jun Zheng
Vice Chair .....	Jian Tang
Secretary .....	Lotfi Mhamdi
TC CSR Award & Sponsorship Events Chair .....	Abdelhamid Mellouk
HPSR Chair .....	Abbas Jamalipour
Standards Liaison .....	Henry Suthon & Nirmala Shenoy
Student Competition Program .....	Roberto Rojas-Cessa

The objective of this committee is to sponsor publications, conference technical sessions, workshops and topical meetings and discussions in the theory and applications of information switching. Specific areas include (but are not limited to) theory, architecture, traffic, performance, signaling protocol and networks, call and mobility control, services and features, planning, economic factors and management of switching systems.

## **Communications Systems Integration & Modeling (CSIM)**

Chair .....	Christos Verikoukis
Vice Chair .....	Burak Kantarci
Secretary .....	Nizar Zorba
Standards Liaison .....	John Vardakas, Stefano Giordano
Student Competition Program .....	Luca Foschini

This committee is concerned with systems disciplines and modeling tools that facilitate the integration of information-transport equipment, subsystems, and networks into communications systems. The committee particularly addresses computer-aided modeling of integrated subsystems to answer architectural and performance questions.

## **Communication Theory (CTTC)**

Chair .....	Erik Perrins
Vice Chair .....	Urbashi Mitra
Secretary .....	Philippa Martin
Standards Liaison .....	George Alexandropoulos
Student Competition Program .....	Rui Dinis

This committee sponsors conference sessions, workshops, and tutorials. It also promotes and reviews papers in the broad area of communication theory, with emphasis on applications to practical systems. The technical content of these sessions and papers focuses on the analytical and theoretical aspects of many diverse areas that include modulation, coding, synchronization, equalization, signal processing and neural networks, transmission over all media, source and channel coding, spread spectrum and multiple access, data communications, and communication networks.

## **Computer Communications (TCCC)**

Chair .....	James P.G. Sternbenz
Vice Chair .....	Jörg Ott

Secretary .....	Dan Massey
Standards Liaison .....	R. Venkatesha Prasad
Student Competition Program .....	Falko Dressler

This committee sponsors papers, discussions, and standards on all aspects of computer-communication systems. It provides a forum for members to broaden professional contacts and for technical discussions and interactions. Its areas of interest include performance of computer network and switch architectures, interfaces and protocols, configuration control, scheduling and buffer management, routing, flow control and admission control algorithms, error control, and network security, reliability, and management.

### **Data Storage (TCDS)**

Chair .....	Brian Kurkosi
Vice Chair (Academia) .....	Shayan Srinivasa Garani
Vice Chair (Industry) .....	Xinmiao Zhang
Secretary .....	Jeongseok Ha
Treasurer .....	Qi Qi
Standards Liaison .....	Lara Dolecek
Student Competition Program .....	Suayb S. Arslan

This committee focuses on and promotes advances in areas such as coding for data storage, signal processing for data storage, information theory, and storage networks. Its interests are expanding to include emerging areas such as storage area networks and network codes, software for data storage management, servo strategies, and circuits for data storage, etc.

### **e-Health**

Chair .....	Hsi-Pin Ma
Vice Chair .....	Honggang Wang
Secretary / Student Competition Program .....	Andrea Sciarrone
Standards Liaison .....	Zaher Dawy

This committee focuses on exploring ICT solution gaps and business models supporting emerging eHealth applications and services, as well as exploring project collaboration opportunities addressing global health challenges with IEEE sister societies and governments around the globe. The focused technical areas include eHealth network and system infrastructures (e.g., health grid, cloud computing, etc.), net-centric health and healthcare application developments, ICT-enabled personalized healthcare and management, and ICT-enabled smart medical devices and systems. This committee provides a platform to ComSoc members not only for technical information exchange (e.g., conferences and workshops) but also for project-based collaborations with IEEE and non-IEEE organizations.

### **Green Communications & Computing**

Chair .....	Fei Richard Yu
Vice Chair - Asia/Pacific .....	Song Guo
Vice Chair – Americas .....	Lingjia Liu

Vice Chair - Europe/Africa ..... Yan Zhang  
 Vice Chair - Standards Activities ..... RangaRao Venkatesha Prasad  
 Secretary ..... Feng Ye  
 Standard Liaisons ..... RangaRao Venkatesha Prasad  
 Student Competition Program ..... Kai Yang

The goal of TCGCC is to provide a platform for its members, and the whole research, development, standardization, and service community of energy-and/or resource- efficient and/or environment-sustainable communications, computing, and relevant systems, to interact and exchange technical ideas, to identify major research and development challenges, and to collaborate and investigate solutions in the development of energy-sustainable, resource-saving, and environment-friendly green communications and computing technologies. The areas this committee addresses are quite interdisciplinary due to the inherent features of the relevant green topics. This committee not only addresses greening communications, computing, and relevant systems but also investigates using communications, computing, and relevant systems to achieve green objectives for the sustainable world.

**Information Infrastructure & Networking (IIN)**

Chair ..... Rami Langar  
 Vice Chair ..... Periklis Chatzimisios  
 Secretary ..... Nadjib Aitsaadi  
 Student Competition Program ..... Sidi Mohamed Senouci

Working in concert with other ComSoc Technical Committees, the objective of IIN is to facilitate the cohesive advancement of information infrastructures and supportive technologies to enable global networking to guarantee distribution and accessibility of any kind of data in any format, to anywhere, at anytime, on any media, and with any access tool. Social responsibility, including green operations and the narrowing of the “digital divide” are key precepts.

**Innovation & Standards in Information & Communication Technologies**

Chair ..... SM Hasan  
 Vice Chair ..... Stephen Bush  
 Secretary ..... Dinesh Datla  
 Student Competition Program ..... Harpreet Dhillon

The goal of this committee is to foster and promote research related to theory and methodology of innovation and standardization in information and communication technologies; to foster contributions from academic and industrial research organizations to global standards activities; and to foster undergraduate and graduate academic curricula and continuing education in innovation and standardization areas. The subcommittee organizes conferences and workshops, articles for journals and magazines, as well as tutorials, short courses, and Distinguished Lectures on the topic of innovations and standards in Information and Communication Technologies.

## Internet (ITC)

Chair .....	Dijiang Huang
Vice Chair .....	Michele Nogueira
Secretary .....	Paolo Bellavista
Standards Liaison .....	Periklis Chatzimisios
Student Competition .....	Michele Nogueira

This committee is a joint committee of the Internet Society and the Communications Society for stimulating interdisciplinary exchanges and applications of state-of-the-art communications and related technologies to Internet infrastructure and services. The committee contributes to the emergence of a ubiquitous, multimedia, and high-performance Internet serving large segments of the world's population.

## Multimedia Communications (MMC)

Chair .....	Honggang Wang
Steering Committee Chair .....	Zhu Li
Vice Chair (America) .....	Sanjeev Mehrotra
Vice Chair (Asia) .....	Fen Hou
Vice Chair (Europe) .....	Christian Timmerer
Vice Chair (Letters and Member Communications)...	Honggang Wang
Secretary .....	Wanqing Li
Standard Liaison .....	Liang Zhou
Student Competition Program .....	Wanqing Li

This committee examines systems, applications, services and techniques in which two or more media are used in the same session. These media include (but are not restricted to) voice, video, image, music, data, and executable code. The scope includes conversational, presentational, and transactional applications and the underlying networking systems to support them.

## Network Operations & Management (CNOM)

Chair .....	Filip de Turck
Vice Chair .....	Laurent Ciavaglia
Technical Program Chair .....	Carol Fung
Secretary .....	Carlos Raniery
Standards Liaison .....	Abdelkader Lahmadi
Student Competition Program .....	Abdelkader Lahmadi

This committee focuses on network and service operations and management. It encourages the exchange of information on the technical, operational, and business management aspects of public and private networks for voice, data, image, and video. It organizes and sponsors publications and symposia on these topics. Specific technical interests include automation of network operations, customer network management and control, real-time management of networks, network-operations architecture, service and business management, and end-to-end management across technologies and several jurisdictional boundaries.

## **Optical Networking (ONTC)**

Chair ..... George Rouskas  
Vice Chair ..... Xiaojun (Matt) Cao  
Secretary ..... Luca Valcarenghi  
Student Competition Program ..... Paolo Monti

This committee serves as ComSoc’s focal point in the area of optical networking technologies and plays an active role in stimulating/organizing leading-edge optical networking symposia, workshops, sessions and tutorials serving OFC/NFOEC and other premier M&C venues. ONTC also serves as a proactive facilitator in the dissemination of evolving optical networking standards by working closely with standards forums such as OIF, IETF, and ITU/T1.

## **Power Line Communications (PLC)**

Chair ..... Andrea Tonello  
Vice Chair ..... Haniph Latchman  
Secretary ..... Gerd Bumiller  
Standards Liaison ..... Haniph Latchman  
Student Competition Program..... Jose Antononi Cortes Arrabal

The committee sponsors conference sessions, special issues, workshops, tutorials, and promotes the dissemination of technical information in the broad area of communications over power lines. The primary goal is to serve as a focal point for all activities in the area of power line communications.

## **Radio Communications (RCC)**

Chair ..... Andrea Giorgetti  
Vice Chair ..... Yuan Shen  
Secretary ..... Jemin Lee  
Standards Liaison ..... George Chrisikos  
Student Competition Program ..... Jemin Lee

The IEEE Communications Society’s Radio Communications Committee (RCC) is primarily interested in physical layer wireless communications. Its areas of interest include engineering aspects of communication and localization systems, equipment, and operation with involvement in standardization, spectrum, and regulatory efforts. Technologies considered span point-to-point, point-to-multipoint, multipoint-to-multipoint, mobile radio access, and adaptive diversity systems. The RCC sponsors and promotes technical publications, conferences, symposia, workshops, tutorials, and other related activities on the aforementioned aspects. The committee also assumes the proactive duty to nominate suitable candidates for Communications Society and IEEE awards, propose distinguished lecturer candidates, and endorse deserving candidates for the election to IEEE Senior Member and Fellow grade.

## **Satellite & Space Communications (SSC)**

Chair ..... Tomaso de Cola  
Vice Chair ..... Song Guo  
Secretary ..... Pascal Lorenz

Standards Liaison ..... Henry Suthon  
Student Competition Program ..... Daniele Tarchi

This committee facilitates technical interchange in the field of satellite and space communications. It explores the evolution of new satellite and space-based systems and the application of new and emerging technologies, at all layers of the network protocol suite. The Committee maintains a keen interest in the development and maintenance of standards in this area.

### **Signal Processing & Communications Electronics (SPCE)**

Chair ..... Octavia Dobre  
Vice Chair ..... Xianbin Wang  
Secretary ..... Jingxian Wu  
Standards Liaison ..... George Alexandropoulos  
Student Competition Program ..... Sinem Coleri Ergen

This committee sponsors papers, participates in the organization of conferences, and promotes technical workshops on those aspects of communications that pertain to the innovation, development and application of algorithms and electronic and photonic devices or subsystems for generation, processing, storage, transmission, recovery, and presentation of communications signals. The committee also has, as a goal, the professional development of committee members and other practitioners that work in the above areas.

### **Social Networks**

Chair ..... Kwang-Cheng Chen  
Vice Chairs ..... Symeon Papavassiliou, Steven Wicker  
Secretary ..... Chunting Chou  
Student Competition Program ..... Damla Turgut

The Social Networks committee promotes interdisciplinary researches among social science, information theory and computer science. The main scope of the subcommittee is to encourage study and research activities that answer the very fundamental questions in human and telecommunication networks including:

### **Tactile Internet**

Chair ..... Meryem Simsek  
Vice Chairs ..... Mischa Dohler, Latif Ladid  
Secretary ..... Falko Dressler  
Student Competition Program ..... TBD

The Tactile Internet will focus on exploring and elucidating all facets of the next generation of “Tactile Internet” technology, business and societal gaps and challenges. The objectives of the TI are to facilitate the worldwide harmonization of research, pre-standardization and best practices for deployment user scenarios of the global TI ecosystem, to design the built-in security and privacy and to explore ways the tactile technology can be realized

in different segments such as in engineering, automobile, transport and logistics, health service, and public. The TI will target the understanding of the tactile requirements, the specification and identification of tactile use cases, defining system specifications to meet these requirements, developing breakthrough technology to the identified challenges of the tactile internet, and enabling of Internet protocols over the next generation of empowered devices in order to reach convergence and end to end transparency through IPv6.

**Transmission, Access & Optical Systems (TAOS)**

- Chair ..... Athanassios Manikas
- Vice Chair ..... Fabrizio Granelli
- Secretary ..... Steve Hranilovic
- Standards Liaison ..... Frank Effenberger
- Student Competition Program ..... Fabrizio Granelli

This committee sponsors and organizes papers, conference sessions, workshops and standards development relating to both optical and metallic guided media transmission and access systems for the transport of speech, data, and visual information of any bandwidth. Specific areas of interest include: photonic systems and networks; testing and performance of analog and digitally transmitted signals; systems and equipment for subscriber access over fiber, coaxial cable, and twisted copper pairs; analog and digital subscriber lines over wires and interfaces to wireless media; inductive coordination and electrical protection of wired media; network synchronization; and development of IEEE-oriented standards.

**Wireless Communications (TCWC)**

- Chair ..... Shuguang Cui
- Vice Chair ..... Wei Zhang
- Secretary ..... Bechir Hamdaoui
- Standards Liaison ..... Anass Benjebbour
- Student Competition Program ..... Chuan Huang

The mission this committee is to sponsor publications, conferences, technical sessions, workshops, and other information exchanges on architectures, applications, systems, terminals and technologies to provide wireless, mobile, location-independent communication and computing in voice, data and visual media. Its areas of interest include techniques for achieving portability, ubiquity and transparency using mobile and wireless cellular networks ranging from physical layer, MAC layer, network layer to application layer.



# CONFERENCES



Stefano Bregni  
Vice President

Vice President ..... Stefano Bregni  
Staff ..... Aileen Norton

## CONFERENCES COUNCIL

Chair ..... Stefano Bregni  
Vice Chair ..... Hikmet Sari

### Members

Director - Conference Development ..... Joel Rodrigues  
Director - Conference Operations ..... Hikmet Sari  
Chair - GLOBECOM/ICC Management & Strategy ..... Koichi Asatani  
Chair - GLOBECOM/ICC Technical Content ..... Matthew Valenti

### Conference Development Board

Chair ..... Joel Rodrigues

#### Members at Large

Ali Ghrayeb, Qatar (WCNC)  
Tom Hou, USA (INFOCOM)  
Doug Zuckerman, USA (OFC)  
Qingqing Zhang, USA (MILCOM)  
Luis Correia, Portugal (PIMRC)  
Zhisheng Niu, China  
Carlos Lozano, Colombia  
Harry Charalampos Skianis, TEC-C Representative

### Conference Operations Board

Chair ..... Hikmet Sari

#### Members at Large

Ali Ghrayeb, Qatar (WCNC)  
Tom Hou, USA (INFOCOM)  
Doug Zuckerman, USA (OFC)  
Qingqing Zhang, USA (MILCOM)  
Luis Correia, Portugal (PIMRC)  
Zhisheng Niu, China  
Carlos Lozano, Colombia

#### Member Ex-Oficio

Fambirai Takawira, ComSoc Treasurer

The Conference Development and Conference Operations Boards hold their meetings concurrently at ICC and GLOBECOM.

**Standing Committees** (Reporting to VP Conferences)

GLOBECOM/ICC Management & Strategy (GIMS) ..... Koichi Asatani

GLOBECOM/ICC Technical Content (GITC) ..... Matthew Valenti

## **COMSOC PORTFOLIO EVENTS RECENT & UPCOMING CONFERENCES**

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Embrace cutting-edge technologies at IEEE Communications Society sponsored global events. Every year, thousands of participants come to discover new ideas, explore innovative solutions, and network with the leaders who are changing the world of communications.

### **ATC**

International Conference on Advanced Technologies for Communication

ATC covers a comprehensive range of communication and electronics technologies contributing toward a “Flat World” of communications. It gives a focus on intelligence and security issues for advanced communication systems and services, as well as emerging technologies and applications.

#### **ATC 2018 – Ho Chi Minh City, VIETNAM**

[www.rev-conf.org](http://www.rev-conf.org)

General Chairs: ..... Hikmet Sari, Tan Hanh, Truong Vu Bang Giang

Technical Program Chairs: ..... Vo Nguyen Quoc Bao, Ha Hoang Kha

Steering Committee Chairs ..... Vu Van San, Nguyen Hong Vu

### **IEEE ANTS**

Advanced Networks & Telecommunication Systems

ANTS fosters strong relationship in the telecom field across diverse stakeholders: from industry to academics to government; from researchers to practitioners to business professionals; from system vendors to equipment manufacturers to telecom network operators.

#### **IEEE ANTS 2018 – Indore, INDIA**

[www.ieee-comsoc-ants.org](http://www.ieee-comsoc-ants.org)

General Co-Chairs: ..... Vimal Bhatia, Koushik Sinha

Technical Program Chairs: ..... Prabhat K Upadhyay, Neminath Hubballi

..... Daniel Benevides da Costa

Steering Committee Chair: ..... Sudhir Dixit

## **IEEE CAMAD**

International Workshop on Computer-Aided Modeling, Analysis and Design of Communication Links and Networks

The IEEE International Workshop on Computer-Aided Modeling, Analysis and Design of Communication Links and Networks (CAMAD) represents a unique forum for discussion of recent developments in analytical and simulation tools, and techniques for the performance evaluation of communications systems, bringing together top-level engineers and researchers from around the globe.

### **IEEE CAMAD 2018 –Barcelona, Spain**

[www.ieee-camad.org](http://www.ieee-camad.org)

General Chairs: ..... Christos Verikoukis, Mianxiong Dong Muroan  
Technical Program Chairs: ..... Luca Foschini, Hyunbum Kim  
..... Angelos Antonopoulos  
Steering Committee Chair: ..... Fabrizio Granelli, Christos Verikoukis  
..... Stefano Giordano, Michael Devetsikiotis

## **IEEE CCNC**

Consumer Communications & Networking Conference

CCNC represents a singular opportunity for consumer electronic manufacturers to join with communications and networking manufacturers and service providers. It represents the latest approaches and technical solutions in the area of home networking and consumer networking.

### **IEEE CCNC 2019 – Las Vegas, NV, USA**

[www.ieee-ccnc.org](http://www.ieee-ccnc.org)

General Chair: ..... Pietro Manzoni  
Technical Program Chair: ..... Joonhyuk Kang  
Steering Committee Chair: ..... Robert Fish

## **IEEE CCW**

Workshop on Computer Communications

The Annual Workshop on Computer Communications is the annual flagship meeting of the Technical Committee on Computer Communications. It provides a small, intimate setting and a relaxed ambiance, where participants can concentrate on technical interchange with their colleagues and enjoy unique social events and experiences.

### **IEEE CCW 2019 – TBD**

[www.ieee-ccw.org](http://www.ieee-ccw.org)

## **IEEE CQR**

International Communications Quality & Reliability Workshop

The annual IEEE CQR International Workshop is held with the purpose of bringing together industry and academic experts to present and discuss communications quality, reliability and security issues as they relate to real world issues.

**IEEE CQR 2018 – Austin, TX, USA**

[www.ieee-cqr.org](http://www.ieee-cqr.org)

General Chairs: ..... Jason S. Boswell, Peter Thermos  
Technical Program Chair: ..... Scott Poretzky

**IEEE CTW**

Communications Theory Workshop

The workshop is held every Spring and features invited talks on the latest research in communication theory from the world's leading researchers.

**IEEE CTW 2018 – Miramar Beach, FL, USA**

[www.ieee-ctw.org](http://www.ieee-ctw.org)

General Chair: ..... David Love, Erik Perrins  
Technical Program Chairs: ..... Bert Hochwald, Petar Popovski

**IEEE DySPAN**

Symposium on New Frontiers in Dynamic Spectrum Access Networks

Bringing technologists together with the spectrum policy community charged with re-architecting the legal regime for managing spectrum in the 21st century to accommodate new technologies.

**IEEE DySPAN 2018 – Seoul, SOUTH KOREA**

[www.ieee-dyspan.org](http://www.ieee-dyspan.org)

General Chairs: ..... Saewoong Bahk, Dongmyun Lee  
Technical Program Chairs: ..... Sunghyun Choi, Ying-Chang Liang  
..... Zhisheng Niu  
Steering Committee Chairs: ..... Jerry Park, Giulia McHenry

**IEEE EDOC**

Enterprise Distributed Object Computing Conference

EDOC addresses the full range of engineering technologies and methods contributing to enterprise distributed application systems.

**IEEE EDOC 2018– Stockholm, SWEDEN**

[www.edoc2018.conf.kth.se](http://www.edoc2018.conf.kth.se)

General Chair: ..... Robert Lagerström  
Steering Committee Chair: ..... Georg Grossmann

## **IEEE GLOBECOM**

Global Communications Conference

GLOBECOM is one of the Communications Society's flagship conferences. Like ICC, it covers all topics in communications and networking. In addition to the technical sessions where the latest research results are presented, the program includes workshops, tutorials, industry panels and forums, and an exhibition. The program has been developed to fulfill the needs of both academia and industry.

### **IEEE GLOBECOM 2018 – Abu Dhabi, UAE**

[www.ieee-globecom.org](http://www.ieee-globecom.org)

General Chair: ..... Arif Al-Hammadi

Technical Program Chairs: ..... Abbas Jamalipour, Sonia Aissa

GLOBECOM/ICC Steering Committee Chairs: .. Koichi Asatani, Matthew Valenti

## **IEEE ICC**

International Conference on Communications

Featuring the latest developments in telecommunications from a technical perspective. Subjects include Communications Theory, Wireless Communications, Wireless Networking, Optical Networking, Next Generation Networks, etc...

### **IEEE ICC 2018 – Kansas City, MO, USA**

[www.ieee-icc.org](http://www.ieee-icc.org)

General Chair: ..... Andrzej Jajszczyk, Ron Marquardt

Technical Program Chairs: ..... Yi Qian, Rose Qingyang Hu, Lisandro Granville

GIMS Advisor/ GITC Advisor: ..... Stan Moyer, Sonia Aissa

## **IEEE IM**

IFIP/IEEE International Symposium on Integrated Network Management

IM is one of the world's premier conferences on network management. It meets in odd-numbered years, typically during May.

### **IM 2019 – Washington, DC, USA**

[www.ieee-im.org](http://www.ieee-im.org)

General Co-Chairs: ..... Joe Betsler, Carol Fung

Technical Program Co-Chairs: ..... Alex Clemm, Jerome Francois, Shingo Ata

## **IEEE INFOCOM**

International Conference on Computer Communications

Addressing key issues related to recent advances in computer communications and networking. Bringing researchers, practitioners together to present the most up-to-date achievements.

### **IEEE INFOCOM 2018 – Honolulu, HI, USA**

[www.ieee-infocom.org](http://www.ieee-infocom.org)

General Chair: ..... Galen Sasaki  
Technical Program Chairs: ..... Shiwen Mao, Tommaso Melodia, Prasun Sinha  
Steering Committee Chair: ..... Tom Hou

### **IEEE ISCC**

International Symposium on Computers and Communications

The IEEE symposium on Computers and Communications began in 1995 in response to the growing interaction between the fields of computers and communications.

### **IEEE ISCC 2018 – Natal, BRAZIL**

[www.ieee-isc.org](http://www.ieee-isc.org)

General Co-Chairs: ..... Mario Dantas, Susana Sargento  
Technical Program Co-Chairs: ..... Antonio Loureiro, Shie-Yuan Wang  
Steering Committee Chair: ..... Reda Ammar

### **IEEE ISPLC**

International Symposium on Power Line Communications and its Applications

A forum for the discussion of the issues associated with the use of electrical power distribution wires as a viable communication channel.

### **IEEE ISPLC 2018 – Manchester, UNITED KINGDOM**

[www.ieee-isplc.org](http://www.ieee-isplc.org)

General Chair: ..... Bamidele Adebisi, Haris Gačaniin  
Technical Program Chairs: ..... Xavier Mestre, Masaaki Katayama

### **IEEE IWQoS**

Workshop on Quality of Service

IWQoS has served as the prime annual workshop on Quality of Service, providing an international forum for the presentation and discussion of cutting edge research in the field. The scope of the workshop covers the main and currently important aspects of QoS research, including related issues such as availability, reliability, security, pricing, resource management, and performance guarantees.

### **IEEE IWQoS 2018 – Banff, Alberta, CANADA**

[www.ieee-iwqos.org](http://www.ieee-iwqos.org)

General Chair: ..... Carey Williamson  
Technical Program Co-Chairs: ..... Zongpeng Li, Chuan  
Steering Committee Chairs: ..... Ke Xu, Jiangchuan Liu, Jun Xu  
Jun Li, Xiaorui Wang, Xin Wang

## **IEEE LAN/MAN**

Workshop on Local & Metropolitan Area Networks

The IEEE LAN/MAN Workshop is as a leading forum for discussing the latest technical advances in networking in the local and metropolitan areas.

### **IEEE LAN/MAN 2018 – Washington, DC, USA**

[www.ieee-lanman.org](http://www.ieee-lanman.org)

General Chairs: ..... Tommaso Melodia, Timothy Wood

Technical Program Chairs: ..... Florin Ciucu, Luca Muscariello

## **NOMS**

IEEE/IFIP Network Operations & Management Symposium

Held in even-numbered years since 1988, NOMS continues to be the primary forum for technical exchange of research, standards, development, systems integrator, service providers, and user communities, presenting the latest approaches and technical solutions in the area of network operations and management.

### **NOMS 2018 – Taipei, TAIWAN**

[www.ieee-noms.org](http://www.ieee-noms.org)

General Chairs: ..... Yu-Chee Tseng, James Hong

Technical Program Chairs: ..... Young-Tak Kim, Clarissa Marquezan, Chih-Wei Yi

## **IEEE PIMRC**

IEEE International Symposium on Personal Indoor & Mobile Radio Communications

PIMRC has attracted major figures in the cellular, PCS, wireless LAN, and mobile data industries. Conference topics are presented in keynotes, tutorials, technical, and panel sessions.

### **IEEE PIMRC 2018– Bologna, Italy**

[www.ieee-pimrc.org](http://www.ieee-pimrc.org)

General Chairs: ..... Roberto Verdone, Luis M. Correia

Technical Chair: ..... Davide Dardari

Steering Committee: ..... Hamid Aghvami

## **IEEE SECON**

Sensor, Mesh and Ad Hoc Communications and Networks

IEEE SECON provides a forum to exchange ideas, techniques, and applications, discuss best practices, raise awareness, and share experiences among researchers, practitioners, standards developers and policymakers working in sensor, ad hoc, and mesh networks and systems.

### **IEEE SECON 2018 – Hong Kong**

[www.ieee-secon.org](http://www.ieee-secon.org)

General Chair: ..... Bin Xiao  
Technical Program Chairs: ..... Mo Li, Wenjun Hu  
Steering Committee Chair: ..... Fred Bauer

## **IEEE WCNC**

Wireless Communications & Networking Conference

WCNC, one of the world’s foremost international technical conferences for engineers and researchers in wireless technologies, offers the best and most current tutorials, research results, industry-oriented technical content and perspectives on wireless communications, networks and systems.

### **IEEE WCNC 2018 – Barcelona, SPAIN**

[www.ieee-wcnc.org](http://www.ieee-wcnc.org)

General Chair: ..... Carles Anton-Haro  
Technical Program Chair: ..... Mischa Dohler

## **MILCOM**

IEEE/AFCEA Military Communications Conference

MILCOM offers a full program of technical sessions, tutorials, keynote speakers, and panel discussion focusing on information relevant to communication and information systems capabilities that address the 21st Century challenges of National Defense and Homeland Security.

### **MILCOM 2018 – California, USA**

[www.milcom.org](http://www.milcom.org)

Technical Program Chair..... John Shea

## **OFC**

Optical Fiber Communication Conference & Exposition

The OFC audience spans the entire industry, from scientists and engineers to manufacturers and service providers. It provides the industry’s most comprehensive view of optical technology — the latest research breakthroughs and innovations.

### **OFC 2019 – Los Angeles, CA, USA**

[www.ofcconference.org](http://www.ofcconference.org)

General Chairs: ..... Gabriella Bosco, Jörg-Peter Elbers, Laurent Schares  
Steering Committee: ..... Robert Doverspike, Ori Gerstel  
..... George Rouskas, Doug Zuckerman

## **IEEE SmartGridcomm**

IEEE International Conference on Smart Grid Communications



The IEEE International Conference on Smart Grid Communications (SmartGridComm) focuses on all communications aspects related to the Smart Grid initiative, an initiative that has the goal of achieving the modernization and optimization of the power grid so that it is more reliable, efficient, secure, and environmentally neutral. The conference will help bring together researchers from academia, industry and government to exchange novel ideas, explore enabling technologies, discuss innovative designs, and share trial experiences.

**IEEE SmartGridcomm 2018 – Aalborg, DENMARK**

[www.ieee-smartgridcomm.org](http://www.ieee-smartgridcomm.org)

General Chairs: ..... Petar Popovski

Technical Program Chairs: ..... John Thompson, Deepa Kundur, Linus Thrybom

..... Hamed Mohsenian-Rad

**IEEE HPSR**

International Conference on High Performance Switching and Routing

HPSR is focused on the technology of high-speed, high-capacity switches and routers, including architectural and algorithmic aspects of high-speed IP networks, possibly adopting optical technologies and wireless user access.

**IEEE HPSR 2018 – Bucharest, ROMANIA**

[www.ieee-hpsr.org](http://www.ieee-hpsr.org)

General Chair: ..... Mitch Gusat, Costin Raiciu

Technical Program Chairs: ..... Giuseppe Bianchi, Theophilus Benson

**IEEE ICME**

International Conference on Multimedia and Expo

IEEE International Conference on Multimedia & Expo serves as a forum for the dissemination of state-of-the-art research, development, and implementations of multimedia systems, technologies and applications.

**IEEE ICME 2018 – San Diego, CA USA**

[www.icme2018.org](http://www.icme2018.org)

General Chairs: ..... C.-C. Jay Kuo, Truong Nguyen, Wenjun Zeng

**IEEE VNC**

IEEE Vehicular Networking Conference

IEEE Vehicular Networking Conference brings together researchers, professionals, and practitioners to present and discuss recent developments and challenges in vehicular networking (e.g., vehicle-to-vehicle and vehicle-to-infrastructure communications) technologies, and their applications (e.g., driving safety, traffic congestion reduction, mobile infotainment).

**IEEE VNC 2018 – Taipei, TAIWAN**

[www.ieee-vnc.org](http://www.ieee-vnc.org)

General Chairs: ..... Hsin-Mu (Michael) Tsai, Onur Altintas

Technical Program Chairs: ..... Kate Lin, Mate Boban

Steering Committee Chair: ..... Onur Altintas

### **IEEE HEALTHCOM**

IEEE International Conference on E-Health Networking  
Applications & Services

Healthcom brings together interested parties from around the world working in the health care field to exchange ideas, to discuss innovative and emerging solutions and to develop collaborations; participants include clinicians, hospital administrators, IT professionals, researchers, educators, healthcare solutions vendors and consultants.

#### **IEEE Healthcom 2018 – Ostrava, CZECH REPUBLIC**

[www.ieee-healthcom.org](http://www.ieee-healthcom.org)

General Chairs: ..... Norbert Noury, Martin Cerny

Technical Program Chair: ..... Marek Penhaker

Steering Committee Chair: ..... Joel Rodrigues

### **IEEE ICC**

IEEE Conference on Communications in China

Aiming at realistic globalization by extending ComSoc reach to fast-growing regions. By collaborating with local sister societies and leading research institutes, the conference will be held every year in greater China region and feature major technical symposia, industry forums, invited sessions, tutorials, panels, and workshops.

#### **IEEE ICC 2018 – Beijing, CHINA**

[www.ieee-icc.org](http://www.ieee-icc.org)

General Chairs: ..... Fumiyuki Adachi, Quan Yu, Ping Zhang

Technical Program Chairs: ..... Zhiyong Feng, Shuguang “Robert” Cui

..... Aaron Gulliver

### **IEEE LATINCOM**

**IEEE Latin-American Conference on Communications**

LATINCOM is an international conference organized by the ComSoc Latin America Region. It is held annually and attracts submissions and participants from all around the world. It covers the scope of all ComSoc Technical Committees and has a broad technical program that includes renowned keynote speakers and comprehensive tutorials presenting the state of the art in communications. Its prime target is to provide a platform for researchers and practitioners in Latin America to share R&D results, to meet and to network. It is an offer of the Communication Society to reach out to its members in Latin America and to offer them a venue meeting the specific needs of their region.

#### **LatinCom 2018 - Guadalajara, MEXICO**

[ieee-comsoc-latincom.org](http://ieee-comsoc-latincom.org)

General Chair: ..... Carlos A. Gutiérrez  
Technical Program Chairs: ..... Joel J. P. C. Rodrigues, Jose Martin Luna Rivera

### **IEEE International Conference on Cloud Networking**

Cloud computing has emerged as a promising direction for cost-efficient and reliable service delivery across data communication networks. The dynamic location of service facilities and the virtualization of hardware and software elements are stressing the communication network and protocols, especially when datacenters are interconnected through the Internet. Although the "computing" aspects of Cloud technologies have been largely investigated, lower attention has been devoted to the "networking" and communications aspects. The IEEE International Conference on Cloud Networking (IEEE CloudNet) precisely addresses these aspects.

#### **IEEE CloudNet 2018 – Tokyo, JAPAN**

[www.ieee-cloudnet.org](http://www.ieee-cloudnet.org)

General Chair: ..... Akihiro Nakao, Tarik Taleb  
Technical Program Chairs: ..... Kazuhiko Kinoshita, Dijang Huang  
Steering Committee Chairs: ..... Raouf Boutaba, Guy Pujolle, Deep Medhi  
..... Dzmitry Kliazovich, Puneet Sharma

### **IEEE Communications & Network Security**

Dedicated to Communications and Network Security, IEEE CNS will focus on the communications-oriented aspects of security and serves as a premier forum for mobile, wireless, and communications cyber security researchers, practitioners, policy makers, and users to exchange ideas, techniques and tools, raise awareness, and share experience related to security and privacy. Topics of interest encompass all practical and theoretical aspects of communications and network security, from the physical layer to the various network layers to the variety of applications reliant on a secure communication substrate.

#### **IEEE CNS 2018 – Beijing, CHINA**

[www.ieee-cns.org](http://www.ieee-cns.org)

General Chair: ..... Jinwu Jing  
Technical Program Chairs: ..... Loukas Lazos, Peng Liu  
Steering Committee Chair: ..... Wenjing Lou

### **IEEE WF-IOT**

World Forum of Internet of Things

The WF-IOT seeks to investigate how progress in technologies and applications of Internet of Things can be nurtured and cultivated for the benefit of society

#### **IEEE WF-IOT 2019 – Limerick, IRELAND**

[wfiot2019.ieee-wf-iot.org](http://wfiot2019.ieee-wf-iot.org)

Steering Committee Chairs: ..... Adam Drobot, Latif Ladid, Lee Stogner

## **IEEE BlackSeaComm**

International Black Sea Conference on Communications and Networking

The IEEE BlackSeaCom series of conferences is held in the countries surrounding the Black Sea. The goal of the IEEE BlackSeaCom is to bring together visionaries in academia, research labs and industry from over the world to the shores of the Black Sea and interact with their colleagues from the region. Participants address many of the outstanding grand challenges that exist in the areas of communications and networking while being able to have the opportunity to explore this exciting and dynamic region that has a rich history.

### **IEEE BlackSeaCom 2018 – Batumi, GEORGIA**

[www.ieee-blackseacom.org](http://www.ieee-blackseacom.org)

General Chairs: ..... Mehmet Ulema, Alexander Gelman

Technical Program Chairs: ..... Tolga Duman, Bilkentm Periklis Chatzimisios

Steering Committee Chair: ..... Mehmet Ulema

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..... Karen Liu, Pat Trischitta

*IEEE /OSA Journal of Optical Communications & Networking* ..... Loukas Paraschis, Jane Simmons  
*IEEE Transactions on Cloud Computing (TCC)* ..... Sherman Shen (Chair), Vincent Chan  
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*IEEE Transactions on Wireless Communications* ..... Urbashi Mitra (Chair), Sumei Sun, Jeffrey Andrews, Ross Murch  
*IEEE Transactions on Molecular, Biological and Multiscale Communications (TMBMC)* ..... Robert Schober (Chair), Stephen Bush (ComSoc Rep)  
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<http://www.comsoc.org/pubs/>

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 EIC, *IEEE Wireless Communications Magazine* ..... Hamid Gharavi  
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Chair ..... Octavia Dobre



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## **Related Societies**

Armed Forces Communications and Electronics Association (AFCEA)  
Association of Computing Machines (ACM)  
Association of Engineers and Architects in Israel & Society of  
Electrical & Electronics Engineers (AEAI)  
EastWest Institute (EWI)  
IEEE Societies (CS, SPS, CAS, LEOS, PES, MTT)  
International Telecommunications Union (ITU)

## **Sister Societies**

BELGIUM .....Federation of Telecommunications Engineers of the European  
..... Union Forum for European ICT Professionals (FITCE)  
BRAZIL ..... Sociedade Brasileira de Telecomunicações (SBrT)  
CHINA ..... China Institute of Communications (CIC)  
CROATIA ..... Communications & Information Society, Croatia (CCIS)  
CZECH REP/SLOVAKIA.....Czech & Slovak Radioengineering Society (SR)  
FINLAND ..... Open Innovations Community (FRUCT)  
FRANCE ..... Soci t  de l'Electricit , de L'Electronique et des Technologies de  
..... l'information et de la Communication (SEE)  
GERMANY Informationstechnische Gesellschaft – Verband der Elektrotechnik  
..... Elektronik Informationstechnik (ITG-VDE)  
HUNGARY ..... The Scientific Association for Infocommunications (HTE)  
INDIA .... The Institution of Electronics & Telecommunications Engineers (IETE)  
INDIA ..... Communications Multimedia Applications Infrastructure  
..... Association of India (CMAI)  
ISRAEL ..... The Association of Engineers and Architects in Israel,  
..... Society of Electrical & Electronics Engineers (AEAI)  
ITALY .... Associazione Italiana per l'Informatica ed il Calcolo Automatico (AICA)  
ITALY ..... AEIT Society for Information and Communications Technology (AICT)

JAPAN ..... The Institute of Electronics, Information & Communication  
 ..... Engineers (IEICE-CS)  
 LATVIA ..... Latvijas Informācijas Un Komunikācijas Tehnoloģijas  
 ..... Asociācija (LIKTA)  
 MALTA ..... Chamber of Engineers in Malta (CoE)  
 RUSSIA ..... The Russian Popov Society Institute of Radio Engineering and  
 ..... Electronics Russian Academy of Sciences (A.S. Popov Society)  
 SINGAPORE ..... Singapore Computer Society (SCS)  
 SLOVENIA ..... The Electrotechnical Association of Slovenia (EZS)  
 SOUTH AFRICA ..... The South African Institute of Electrical Engineers (SAIEE)  
 SOUTH KOREA ..... The Korean Institute of Communications & Information  
 ..... Sciences (KICS)  
 TAIWAN ..... Chinese Institute of Electrical Engineering (CIEE)  
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Stefano Galli  
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Director - Standardization Programs Development ..... Nada Golmie  
Director - Industry Outreach ..... Ashutosh Dutta  
Director - Industry Communities ..... Ian Wong

### Non-Voting Members

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Jaafar Elmirghani (GeenICT)  
Rob Fish (EdgeCloud)  
Alex Gelman (AccessCore)  
Mehmet Ulema (NetSoft)  
John-Philippe Faure (PLC)

## Standards Development Board

Chair ..... Tarek El-Bawab

### Voting Members

Vice Chair ..... Oliver Holland  
Secretary ..... Earl McCune  
Treasurer ..... Alex Gelman

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Jean-Philippe Faure	Zack Huhn
Rob Fish	Mehmet Ulema

## Standardization Programs Development Board

Chair ..... Nada Golmie  
Ex officio ..... Stefano Galli

### Members

Alex Gelman, SM Hassam, Kevin Lu, Periklis Chatzimisios, Charlie Zhang, Jim Lansford, Carlos Cordeiro

## Industry Outreach Board

Chair ..... Ashutosh Dutta

### Voting Members

Nirwan Ansari  
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Shiny Abraham  
Komlan Egoh  
Luis M. Correia (Conference Council)  
Koichi Asatani (MGA Council)  
Yuguang "Michael" Fang (Publications Council)  
Sudhir Dixit (DL Committee)  
Periklis Chatzimisios (Education Services Board)  
Stefano Galli (ex-officio, VP-ISA)

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Saurabh Sureka  
Christian Makaya  
Rose Qingyang Hu  
Priyadarsan Patra  
Titus Lo

### Liaisons

Ian Wong (Industry Community Board Chair)

## Industry Communities Board

Chair ..... Ian Wong

### Voting Members

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Hendrik Berndt  
Chonggang Wang  
JaeSeung Song  
Peter Mueller  
Prosper Chemouil  
Stefano Galli (ex-officio, VP-ISA)

### Non-Voting Members

Marketing Chair ..... Chris Mayer  
Awards Chair ..... Narisa Chu

# STANDING COMMITTEES

## AWARDS

Chair (*Appointed by President*) ..... Chengshan Xiao  
 Staff ..... Carol Cronin

**Members** (*Appointed by Chair for three-year term*)

2016-2018	2017-2019	2018-2020
Octavia Dobre	Jie Wu	Len Cimini
Bob Shapiro	Jian-Nong Cao	Hamid Jafarkhani
Murat Uysal	Alex Gelman	Neelesh B. Mehta
Wenye Wang	Brian D. Woerner	Aria Nosratinia
Tilman Wolf	Jitendra Tugnait ( <i>18-19</i> )	Zhi Tian

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Chair (*Appointed by President*) ..... Dave Michelson  
 Staff ..... Carol Cronin

**Members** (*appointed by Chair for three-year term*)

TBD

## COMSOC YOUNG PROFESSIONALS

(Aligns under VPMR)

Chair ..... Nory Ramirez

**Members**

Sara Cacciapuoti  
 Shashank Gaur

Imran Shafique  
 Richard Cziva

## DISTINGUISHED LECTURERS SELECTION

Chair (*TAC Vice Chair*) ..... Shiwen Mao  
 Staff ..... Carol Cronin

**Members**

Vice President – Technical & Educational Activities ..... Nelson Fonseca  
 Vice President – Member & Global Activities ..... Nei Kato  
 Director – Membership Services ..... Song Guo  
 Chair – Emerging Technologies ..... Jeff Andrews

## EMERGING TECHNOLOGIES

Chair (*Appointed by President from SPC*) ..... Jeffrey Andrews  
 Staff ..... Carol Cronin

**Members**

EIC, *IEEE Journal on Selected Areas in Communications (JSAC)* ... Raouf Boutaba

EIC, *IEEE Communications Magazine* ..... Tarek El-Bawab  
 Representative, Strategic Planning Committee ..... Michele Zorzi

<b>2016-2018</b>	<b>2017-2019</b>	<b>2018-2020</b>
Gerhard Fettweis	Mathias Fischer	Vincenzo Sciancalepore
Besma Smida	Thyaga Nandagopal	Charlie Zhang

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 ..... Muhammad Zeeshan Shakir  
 Internet of Things ..... Latif Ladid  
 Molecular, Biological and Multi-Scale Communications ..... Tadashi Nakano  
 Network Intelligence ..... Imen Grida Ben Yahia  
 Quantum Communications & Information Technology ..... Lajos Hanzo  
 Smart Grid Communications ..... Angela Zhang  
 Software Defined Networking & Network Function Virtualization ..... Ciprian Popoviciu

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Chair (*Appointed by President*) ..... Sergio Benedetto  
 Staff ..... Carol Cronin

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<b>2016-2018</b>	<b>2017-2019</b>	<b>2018-2020</b>
Larry Xue	Baochun Li	Steve Alexander
Wanjiun Liao	Qi Bi	Mohamed-Slim Alouini
Tomohiko Taniguchi	Prosper Chemouil	Robert Schober

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 Executive Director ..... Susan M. Brooks  
 Staff ..... Bruce Worthman

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President ..... Khaled B. Letaief  
 Past President (*or President-Elect*) ..... Harvey Freeman  
 Vice Presidents ..... Stefano Bregni, Nelson Fonseca  
 ..... Stefano Galli, Nei Kato, Xuemin (Sherman) Shen  
 CIO ..... Zhi Ding  
 MALs (*class representatives*) ..... Tom Hou, Ricardo Veiga, Wei Zhang

### GLOBECOM/ICC MANAGEMENT & STRATEGY (GIMS)

Chair ..... Koichi Asatani

#### Voting Members

Koichi Asatani

Stan Moyer (GIMS Vice-Chair, Past OC Member, 2016-18)  
Matthew Valenti (GITC Chair, 2018-2019)  
Rolland Vida (Operations Manager, Past OC Member, 2017-19)

Neeli Prasad (Member-at-Large, 2017-19)  
Peter Nagy (Member-at-Large, 2016-18)  
Erdal Panayirci (Member-at-Large, 2018-19)  
Sumei Sun (Member-at-Large, 2018-20)  
Hafizal Mohamad (Past OC Member, 2018-20)

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Stefano Bregni (VP, Conferences, 2018-19)  
Aileen Norton (ComSoc Staff, Conferences Director)  
Bruce Worthman (ComSoc Staff, Finance and Business Operations Director)  
Representatives From Current ICC/GC Conferences OCs

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Chair ..... Matthew Valenti

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Abbas Jamalipour (GITC Vice-Chair & MAL, 2018-19)  
Koichi Asatani (GIMS Chair, 2018-2019)  
Ali Ghrayeb (Member-at-Large, 2018-19)  
Cheng Li (Member-at-Large, 2018)  
Shiwen Mao (Member-at-Large, 2018)  
Linda Xie (Ex TP Chair, 2018-20)  
Sonia Aissa (Ex TP Chair, 2017-19)  
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Tarik Taleb (Director Technical Services, 2018-19)  
Tom Hou (Past GITC Chair, 2018-19)  
Abdelhamid Mellouk (Ex TP Chair, 2018-19)

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Chair (*Appointed by President*) ..... Merrily Hartmann  
Vice Chair ..... Stefano Galli (2018 - 2020)

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Roberto de Marca (2018 – 2019)  
Ashutosh Dutta (2018 – 2019)  
Steve Gorshe (2018)  
Robert Schober (2018 – 2019)  
Curtis Siller (2018)

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Staff ..... Carol Cronin  
Past President (ex-officio) ..... Harvey Freeman

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H. Vincent Poor	Mahmoud Daneshmand	Hanna Bogucka
Steve Gorshe	Tomohiko Taniguchi	Wanjiun Liao

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CIO ..... Zhi Ding  
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Vice President – Industry & Standards Activities ..... Stefano Galli  
Vice President – Conferences ..... Stefano Bregni  
Vice President – Technical & Educational Activities ..... Nelson Fonseca  
Vice President – Publications ..... Sherman Shen  
Non BoG Member ..... Sergio Benedetto

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Michele Zorzi	Loukas Paraschis	Tao Zhang
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**2017-2019**

Wanjiun Liao  
Ricardo Veiga

**2018-2020**

Ekram Hossain  
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(Aligns under VPMR)

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Staff ..... Carol Cronin  
Vice Chair ..... Jean Armstrong  
Publicity Chair ..... Angela Sara Cacciapuoti  
Secretary/ Student Competition Rep. .... Sinem Coleri Ergen  
Industry Relation Coordinator ..... Nada Philip  
Student Activity Coordinator ..... Meryem Simsek  
IEEE WICE Committee Society Coordinator ..... Mari Carmen Aguayo-Torres

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Urbashi Mitra  
Meixia Tao

Shalinee Kishore  
Sarah Kate Wilson  
Maite Brandt-Pearce

# AD HOC COMMITTEES

## ComSoc Website Ad Hoc Committee

**Chair:** ..... Sergio Benedetto

### Members

Merrily Hartman  
Robert Schober  
Zhi Ding

## Member Recognition Initiatives Ad Hoc Committee

**Chair:** ..... Michele Zorzi

### Members

Vincent Chan  
Stefano Galli  
Sergio Benedetto  
Kin K. Leung  
Mischa Dohler  
Anna Scaglione  
Reinaldo Valenzuela  
Nihar Jindal  
Peter Chow

# OMBUDSMAN

[www.comsoc.org/ombudsman](http://www.comsoc.org/ombudsman) ..... Steve Weinstein

The Ombudsman shall be the first point of contact for reporting a dispute or complaint related to Society activities and/or volunteers. The Ombudsman will investigate, provide direction to the appropriate IEEE resources if necessary, and/or otherwise help settle these disputes at an appropriate level within the Society.

# SOCIETY REPRESENTATIVES & PARTICIPANTS ON IEEE BOARDS, COUNCILS, COMMITTEES

IEEE Women in Engineering	Ana Garcia-Armada	2018
IEEE Young Professionals Committee	Celia Desmond	2018
IEEE SA Board of Governors	Robert Fish	2018
IEEE-USA Energy Policy Committee	Stefano Galli	2018

## IEEE Technical Activities Board (TAB) & Committees

Technical Activities Board	Khaled B. Letaief, Vijay Bhargava	2018
Awards & Recognition	Celia Desmond	2018
Biometrics Council	Joel J Rodrigues	2018
RFID Council	Paul Hartmann	2018
Council on Superconductivity	Elie K Track, John W Spargo	2018
Nanotechnology Council	Andrew W Eckford	2018
Sensors Council	Rolland Vida	2018
Conferences Committee	Alex Gelman	2018
Finance Committee	Bob Shapiro	2018
Future Directions Committee	Roberto Saracco (Ch)	2013-18
	Doug Zuckerman	2015-18
IEEE Big Data Initiative Steering Committee	Dave Belanger	2015-18
Hall of Honor Selection Committee	Roberto de Marca	2016-18
Nominations & Appointments	Celia Desmond	2018
PSPB Products & Services Committee	Curtis Siller	2018
Strategic Planning Committee	Robert Fish	2018

## IEEE Committees & Boards (other than TAB)

Board of Directors	Vijay Bhargava	2018
Awards Board	Mark Karol	2018
Industry Engagement Committee	Stefano Galli	2018
Eric E. Sumner Award Committee	Roberto de Marca (Ch)	2018
IEEE Council on RFID	Paul Hartmann	2018
IEEE Council on Superconductivity	John W Spargo	2018

## IEEE Links

Volunteer Opportunities at TAB:

[http://www.ieee.org/about/volunteers/tab/tab\\_volunteering.html](http://www.ieee.org/about/volunteers/tab/tab_volunteering.html)

TAB Nominations & Appointments Process & Forms:

[http://www.ieee.org/about/corporate/nominations/nominations\\_guidelines.html](http://www.ieee.org/about/corporate/nominations/nominations_guidelines.html)

IEEE Major Boards & Standing Committees: <http://rosters.ieee.org/home.html#>

IEEE Nominations & Appointments Opportunities:

[http://www.ieee.org/about/corporate/nominations/nominations\\_guidelines.html](http://www.ieee.org/about/corporate/nominations/nominations_guidelines.html)

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**IEEE Communications Society**

**Carole Swaim Distinguished Staff Award**

Carole Swaim	2007
Ting Qian	2009
Bruce Worthman	2011
Carol Cronin	2014

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# DISTINGUISHED LECTURER / SPEAKER PROGRAM

approved 9/6/95, updates 2001, 03, 08, 09, 10, 11, 12, 13, 15

Provided as a service to our local **Travel Grants**, Distinguished Lecture Tours and individual Distinguished Speakers can be arranged in response to a request from one or more Chapter Chairs. They may also be initiated by Regional Directors, the Director – Member Services, or the VP – MGA. Although tours and individual lectures are organized to benefit existing members and Chapters, they can also be effective in generating membership and encouraging new chapter formation.

Lecture tours will be supported as the budget allows in each of our four Regions: Asia/Pacific, Europe/Middle-East/Africa, Latin America, and North America. The Director in each region plays a key role as facilitator. No more than two tours will be allowed per year to each Distinguished Lecturer. Funding shall be in accordance with the following guidelines.

## DISTINGUISHED LECTURER TOUR PROGRAM

### Procedures

- Funding (up to approximately \$3,000) for DISTINGUISHED LECTURE TOURS (DLT) shall be provided to enable a lecturer to address multiple groups during a lecture tour. Normally, no more than \$1,000 shall be approved for chapters when they organize a DLT and choose a lecturer from the same ComSoc region. However, ComSoc will approve an additional allocation (minimal) on a case-by-case basis.

For those chapters that organize DLTs and select lecturers from “other” ComSoc regions (requiring international travel), ComSoc shall approve up to approximately \$3,000 per tour. No more than two or three tours of this type should be approved per Region (For example, NA region may invite 2-3 DLs from other regions. LA region may invite 2-3 DLs from other regions, etc). ComSoc shall be flexible for this type of (international) DLT to enhance our globalization efforts. DLTs organized using “In-Region” lecturers should continue to be supported as budget allows.

- DLT Tours involve a series of lectures – addressing at least three groups in three separate locations within reasonable geographical proximity to each other.
- “Grassroots” organizers may be Chapters, Sections, local conference organizers, or even a group of members in an area where no ComSoc chapter exists. Organizers work directly with their Regional Director, who facilitates arrangements and recommends the tour to the Director – Member Services. Tour recommendations should take place at least two months before the tour begins and must include the following:

Chapters involved in the tour  
Chapter Chairs and e-mail addresses  
If a university is involved, name of school, contact, and e-mail  
Name and e-mail address of Lecturer  
Dates of each lecture  
Location of each lecture  
Estimated cost of lecturer's air fare

For chapters desiring to host an individual lecture, the chairs can work directly with their Regional Director and DLT Coordinator. Regional Directors and DLT coordinators should be proactive in engaging the more passive or inactive chapters in DLT activities to help the chapters attract more members.

- The decision to approve a DLT request is the responsibility of the Director - Member Services with his/her final approval being announced two months prior to the tour.

All arrangements must be made in advance with local sponsoring groups. The two-month "lead time" is recommended to allow time to obtain visas if necessary, time to advertise, etc.

- Please note that as part of the overall program, all lecturers must be willing to write a brief report for posting at the DL Site. They may also be asked to record their lecture after the tour for the Online Distinguished Lecturers Program. And, therefore, someone from IT Staff would then contact you about recording the lecture as a Webinar.
- Funding for a tour is provided, to cover a lecturer's travel expenses. Living expenses, such as lodging and meals, plus transportation to and from the airport, are generally the responsibility of the local Chapter. Travel, lodging and meals must be booked at an economic rate acceptable for reasonable business travel. (Funding may include night before/after each lecture as required by the schedule to accommodate needs of local organizers.)
- After recording the lecture for the Online Distinguished Lecturers Program, expenses are submitted to ComSoc Headquarters in NYC (Carol Cronin) on an IEEE Expense form and approved by the Director - Membership Programs Development. Receipts must be provided (in accordance with IEEE and Communications Society rules). The lecturer must not profit financially from the lecture tour. The expense form is found at the Distinguished Lecturer web site:  
[www.comsoc.org/about/memberprograms/distinguished-lecturers](http://www.comsoc.org/about/memberprograms/distinguished-lecturers).

\*DLT Funding allocation under review

## **DISTINGUISHED SPEAKER PROGRAM**

### **Procedures**

This program involves a Distinguished Speaker already visiting the region and a single day event (lecture/seminar, etc.) organized by a chapter for the members of the chapter.

- A Distinguished Speaker (DS) can be a current or former Distinguished Lecturer, IEEE Fellow, or a well-known person from industry and/or academia who is not a current or former DL. All Distinguished Speakers (DS) must be approved by the Director – Member Services before the event.
- A Distinguished Speaker Program (DSP) event is supported by up to a maximum amount of \$500.00, which includes the following local expenses only: Lodging, meals, transportation, publicity, A/V, copying, etc. All local expense from a DSP shall occur in the same city of the event. Exception (such as a train ticket from other city to the event city) shall be approved by the Director – Member Services.
- Before the event, the local Chapter identifies a DS (or the DS contacts a local chapter). Then the local chapter contacts the Regional DLT/DSP Coordinator, who, together with the local, chapter, works out the details of the talk and expenses. The Regional Director should be in the loop as well. The DLT/DSP coordinator contacts Director – Member Services for final approval.
- After the event, the DS shall submit a written event report to ComSoc, which shall be posted on the ComSoc web site. Then the DS sends his/her expense report to ComSoc for reimbursement, all local expense reimbursements shall be submitted by the DS, local chapter. Finally, after the event, the local chapter shall evaluate the speaker and provide feedback to the DLT/DSP coordinator and the Director - Member Services.



# DISTINGUISHED LECTURERS

Appointments are 2 years (with an option of 2 additional years)

\*term effective through 31 December 2018

\*\*term effective through 31 December 2019

## **Rui Luis Aguiar \***

ruilaa@ua.pt

Portugal

- An overview of 5G network research
- 10 years of Future Internet research: where do we stand?
- Reconsidering management challenges in chaotic telecommunication environments
- Questioning Quality of Service in telecommunications today

## **Ali Begen \*\***

acbegen@ieee.org

Turkey

- Multimedia Communications
- Networked Entertainment
- IPTV Technologies and Content Delivery
- Over-the-Top Video and Streaming

## **Fawzi Behmann \***

f.behmann@ieee.org

Texas

- Advancement of IoT and impact on the future of Healthcare and Wellness
- Virtualization – a key driver for 5G and IoT
- Internet of Things (IoT) – Innovative Applications for Smart, Connected Homes and Buildings
- Cybersecurity and Cloud Technology
- The Future of Collaborative Internet of Things

## **Jalel Ben-Othman \***

jbo@univ-paris13.fr

France

- Wireless Communication and Mobile Networking
- Sensor Networks
- VANETS
- Wireless, Mobile Ad hoc and Mesh Networks
- QoS in Heterogeneous Wired and Wireless Networks
- Security: Ad hoc, Sensor and ubiquitous Networks
- Performance Evaluation: Markovian Process, SAN, Queuing Networks
- Cloud Computing

## **Danijela Cabric \*\***

danijela@ee.ucla.edu

USA

- Physical Layer MIMO Millimeter-wave Communications
- Ultra-Dense Millimeter-wave Cellular Networks: Beam Discovery, Association, and Handover
- Machine Learning for Cognitive Radios
- Advances in Spectrum Sensing and Signal Classification
- Massive MIMO and Interference Management in Spectrum Sharing networks
- Energy-efficient Massive IoT Communications over Shared Spectrum

## **Hsiao-Hwa Chen \***

hshwchen@gmail.com

Taiwan

- Next generation CDMA and its performance in frequency selection fading channels
- Code hopping multiple access and its performance based on complementary codes
- Performance of smart grid communication networks coexisting with WLANs

### **Davide Dardari \*\***

ddardari@ieee.org  
Italy

- Indoor localization and tracking: from theoretical foundations to practical applications
- Backscatter-based communication and localization: the future of battery-less radio identification and positioning in IoT networks
- Massive antenna arrays at mmWave: opportunities in localization and mapping
- Joint localization and navigation in UAV networks
- Crowd-based estimation in wireless sensor networks

### **Luiz DaSilva \***

dasilval@tcd.ie  
Ireland

- Game theory and wireless networks
- Cognitive networks
- Recent advances in dynamic spectrum access
- Network sharing and the virtualisation of the wireless access

### **Marco Di Renzo \***

marco.direnzo@l2s.centralesupelec.fr  
France

- Spatial modulation for MIMO wireless systems
- System-level analysis and optimization: The magic of stochastic geometry

- Ultra-dense heterogeneous cellular networks
- Wireless powered communications and energy harvesting: Towards energy-neutral networks

### **Sudhir Dixit \*\***

sudhir.dixit@ieee.org  
USA (CA)

- Technologies for 5G
- SDN, OpenFlow and Virtualization
- Cloud and Crowd Computing (Human Augmented Cloud Computing)
- Network Protocols and Next Generation Networks
- Multi-sensory Human Bond Communication
- Internet of Things and Machine-to-Machine Communication

### **Ashutosh Dutta \***

ashutosh.dutta@ieee.org  
USA (NJ)

- Security for SDN/NFV and Virtualized Networks
- 5G Security
- Cloud Security
- Mobility Protocols and Handover Optimization
- Next Generation Mobility Networks

### **Tarek El-Bawab \*\***

telbawab@ieee.org  
USA

- Telecommunication Engineering Education (TEE)
- Broadband Access
- Telecommunication Standards

### **Nelson Fonseca \***

nfonseca@ic.unicamp.br  
Brazil

- Networking for Big Data

- Cloud Networking

**Andrei Gurtov \*\***

gurtov@hiit.fi

Sweden

- Software Defined Mobile Networks: Beyond LTE Network Architecture
- Introduction to Host Identity Protocol and Its Practical Applications
- Security and Smartness for Medical Sensor Networks\*Design and Implementation of Secure Distributed Systems and Networks
- Fair bandwidth allocation in datacenters

**Z. Han (Zhu) \***

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USA

- Big Data In Smart Grid
- Resource Management for Device-to-Device Communications
- Physical Layer Security: A Network Optimization Point of View
- Resource Allocation for Full-Duplex Communication and Networks
- Smart Grid Communications and Networking
- Game Theory for Wireless Networks
- Contract Theory for Wireless Networks
- Matching Theory for Wireless Networks
- Compressive Sensing and its Application
- RF Energy Harvesting Networks

**T. Hou (Tom) \***

thou@vt.edu

USA (VA)

- Advances on Interference Management in Wireless Networks
- MIMO in Multi-hop Wireless Networks

- New Spectrum Sharing and Cooperation Paradigms for Cognitive Radio Networks
- Wireless Ad Hoc and Sensor Networks for Cyber Physical Systems
- Wireless Energy Transfer for Wireless Sensor Networks
- Applied Optimization Methods for Wireless Networks

**R.Q. Hu (Rose Qingyang) \***

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USA (UT)

- Design and performance of 5G wireless communications and Networks
- Spectral efficient and energy efficient wireless network design and tradeoff
- Device to Device communications underlay cellular networks

**J. Huang (Jianwei) \***

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Hong Kong

- Incentive Mechanisms for User-Provided Networks
- Mobile Data Offloading
- Graphical Congestion Games
- Cognitive Virtual Network Operator Games
- Economics of Cooperative Spectrum Sharing
- Economics of TV White Space

**George Karagiannidis \*\***

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Greece

- Optical Wireless Communications
- Non-orthogonal Multiple Access Communications in the THz band
- Low Power Wide Area Networks

**Adlen Ksentini \*\***

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- 5G and mobile network
- Network Softwerization, Network Virtualization, SDN, NFV
- Mobile Edge Computing (MEC)
- Network Slicing

**Liangping Ma \***

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USA (CA)

- QoE-based optimization for video communication over the Internet, Wi-Fi, LTE and 5G networks
- Signal processing and medium access control for cognitive radios
- 5G air interface

**Andreas Molisch \*\***

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USA

**Yi Qian \*\***

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USA

- 5G wireless networks
- Spectrum and energy efficient wireless network design
- Wireless network modeling and simulations
- Wireless security and network security
- Cyber security
- Vehicular networks
- Smart grid communication infrastructures
- Big data and cloud computing

**Tony Quek \*\***

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Singapore

- Towards Connectivity for the Next Billion Devices in IoT

- 5G - Massive, Ultra-Dense, Delay, and Computing
- Proactive Network Management meets Network Intelligence
- Fog Computing & Networking - A New Paradigm for IoT and 5G
- Cloud Radio Access Networks - When Cloud Computing meets CoMP
- Ultra Dense Networks

**Giorgio Quer \*\***

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USA

- Machine Learning in Digital Medicine
- Big Health Data with Wearables: Sensing, Processing and Outcomes
- Device-to-Device Communication in 5G
- Cellular and Device-to-Device Networks: towards Non-orthogonal Coexistence

**Joel Rodrigues \*\***

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Brazil

- Internet of Things (IoT) and Sensor Networks
- e-Health and Mobile Health Technologies
- Vehicular Networks

**S. Roy (Sumit) \***

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- Spectrum Sharing
- White Space Networking
- LTE- WiFi Coexistence 4. Heterogeneous Network Integration and Analysis

**R. Schober (Robert) \***

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Germany

- Molecular Communication for Future Nanonetworks

- Wireless Powered Communication Systems: Overview, Recent Results, and Challenges
- Buffer-aided relaying: Introduction, Recent Advances, and Challenges

### **Gangxiang Shen \*\***

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China

- Optical networks
- Green network communications
- Network survivability
- Fiber-wireless integration
- Content delivery networks (CDN)

### **Linyang Song \***

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- Full-Duplex Wireless Communications: Key Technologies and Applications
- Device-to-Device Communications and Networks
- Smart Grid Communications and Networking
- Signal Processing and Resource Allocation for Physical-Layer Security
- Game-theoretic Methods for Wireless Communications

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- Elastic/flex-grid optical networks
- Performance optimization in cloud computing

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- Power line communications: from vehicular to smart grid applications
- Power line beyond communications: sensing and diagnostics for power networks

- The role of communications, sensing and computing in smart grids
- Filter bank modulation, waveforms and friends for wireless and wireline communications
- Multiple antenna radio localization: challenges, techniques and applications from smart cars to UAVs
- The role of communication, localization and control in UAV systems

### **Ranga Rao Venkatesha Prasad \***

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- Energy Harvesting IoTs and Context awareness
- Use of Constructive Interference in Energy Harvesting IoTs
- Virtual Sensing and Approximate services in Future IoTs - A perspective
- Millimeter wave communications for small cell networks
- Sensor Assisted Beam steering for 60GHz small cell networks
- Energy Disaggregation in smart homes

### **Halim Yanikomeroglu \***

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- Emerging Concepts and Technologies towards 5G+ Wireless Networks
- The New Frontier in RAN Heterogeneity: Drone-cells
- The IoE (Internet of Everything) Revolution and 5G+
- Promising PHY Research Directions for 5G+ Wireless
- The HetHetNets Framework for 5G+ Wireless Networks: Highly Heterogeneous Traffic,

Unprecedented Congestion, and Novel Solutions

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- Cognitive radio networks
- Security issues in cognitive radio networks
- Analytical methods in cognitive radio research
- Undergraduate and graduate education in electrical and computer engineering

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- Wireless Physical Layer Security for the Connected World
- Energy Harvesting Wireless Networks: A New Frontier for Communications
- Coded Caching for Next Generation Content Delivery

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- Cybersecurity and Privacy: State-of-Art, Challenges, and Opportunities
- Networking for Big Data: Challenges and Opportunities

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- Learning to Optimize in Information and Communications Systems
- Randomized Message Passing in Ultra Dense Wireless Networks
- Stochastic Optimization and Learning in Smart Grids

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- Network function virtualization (NFV) in optical networks
- Network softwarization in 5G
- Software-defined networking (SDN) with Protocol Oblivious Forwarding (POF)
- Service provisioning in elastic optical networks (EONs)
- Knowledge-defined multilayer optical networks

# TRAVEL GRANTS

## **General Policy**

Under the Student Travel Grant (STG) Program, the Communications Society (ComSoc) provides a limited number of student travel grants to help Student Members attend major ComSoc conferences. Conference organizers may also seek other sources for travel grants; e.g., the NSF (National Science Foundation) program supports travel for students studying at a US college or university.

## **Eligibility for ComSoc Student Travel Grants**

To qualify for the ComSoc STG, the applicant must satisfy all of the following requirements:

- Is an author of an accepted conference paper and presents the paper at the conference;
- Is a Student Member of ComSoc when submitting the application;
- Is a full-time student registered toward a Bachelors, Masters, or Ph.D. degree in engineering or a related field in a college or university when submitting the application;
- May not receive more than one STG in any 12-month period.

## **ComSoc Student Travel Grant Application Process and Notification**

The conference website will provide the instructions for completing the STG Application Form as well as information regarding the approval/notification process. The STG Committee for each conference will review all travel grant applications and notify applicants about award decisions by the date indicated on the conference website.

## **The ComSoc Student Travel Grant Award**

The STG consists of a monetary award to be used toward registration fees, conference hotel expenses, and travel costs as determined by the STG Committee for each particular conference. To claim a STG, the student must complete the necessary voucher form (provided on the conference website) and attach original receipts. The voucher must be received by ComSoc Staff within 45 days of the last day of the conference.

# AWARDS

The Communications Society sponsors programs to recognize technical achievements and service. To learn more about these awards or how to develop or sponsor new awards, please contact the ComSoc Awards Committee.

## CAREER AWARDS

### IEEE Communications Society Edwin Howard Armstrong Achievement Award

**Prize** – Certificate, plaque, and honorarium of \$2,000; funded by the IEEE Foundation.

**Eligibility** – Member of the Communications Society at time of nomination.

**Basis for Judging** – Outstanding contributions over a period of years in the field of interest of the Society.

**Presentation** – Annually (as soon as possible after recommendation). Award will not be presented if suitable candidate is not available.

#### Recipients

2017 – Muriel Medard

2016 - Moe Z. Win

2015 - Theodore S. Rappaport

2014 - Andrea Goldsmith

2013 - John M. Cioffi

2012 - Donald Cox

2010-11 - No Recipients

2009 - H. Vincent Poor

2008 - Sergio Benedetto

2007 - Norman C. Beaulieu

2006 - Larry J. Greenstein

2005 - No recipient

2004 - Hussein Mouftah

2003 - Hikmet Sari

2002 - Michael B. Pursley

2001 - Ezio Biglieri

2000 - Laurence B. Milstein

1999 - Al Gross

1998 - Donald L. Schilling

1997 - Marvin K. Simon

1996 - Joachim Hagenauer

1995 - Adam Lender

1994 - Mischa Schwartz

1993 - Paul Schumate

1992 - Hisashi Kaneko

1991 - Burton R. Saltzberg

1990 - Jack K. Wolf

1989 - Paul E. Green, Jr.

1988 - Jack M. Sipsess

1987 - Paul Baran

1986 - Gottfried Ungerboeck

1985 - Robert Charles Terreault

1984 - Bob O. Evans

1983 - No Recipient

1982 - Tadahihiro Sekimoto



1981 - Robert Price	1969 - D.S. Rau
1980 - Frederick T. Andrews	1968 - P.G. Edwards
1979 - Arthur A. Collins	1967 - J.Z. Millar
1978 - Andre Pinet	1966 – W.T. Rea
1977 - William H.C. Higgins	1965 - A.G. Kanoian
1976 - Walter B. Morrow	1964 - No Recipient
1975 - Robert W. Lucky	1963 - I.S. Coggeshall
1974 - Frank D. Reese	1962 – A.G. Clavier
1973 - S. G. Lutz	1961 - El Green
1973 - C.E. Shannon	1960 - No Recipient
1972 - Amos E. Joel, Jr.	1959 - K. Bullington
1971 - A.C. Dickieson	1958 - H.H. Beverage
1970 - R.K. Hellmann	

### **IEEE Communications Society Award for Public Service in the Field of Telecommunications**

**Prize** – Certificate, plaque, and honorarium of \$1,000.

**Eligibility** – No restrictions.

**Basis for Judging** – Major contributions to the public welfare through work in the field of telecommunications.

**Presentation** – Annually (as soon as possible after recommendation). Award will not be presented if suitable candidate is not available.

#### **Recipients**

2017 - Arnold Ph. Djiwatampu	
2016 – Werner Mohr	
2014-15 – No recipients	1993 - George E. Brown, Jr.
2013 – Michael J. Marcus	1992 - Mansoor Shafi
2012 - Veena Rawat	1990 - Richard C. Kirby
2011 - Sasi Pilacheri Meethal	1987 - Hubert Zimmerman
2010 - No Recipient	1984 - Mohammed Mili
2009 - David Falconer	1982 - Joseph R. Fogarty
2008 - No recipient	1981 - Henry Geller
2007 - Sam Pitroda	1978 - Alphonse Ouimet
2001-06 - No Recipients	1977 - Benjamin L. Hooks
2000 - David D. Clark	1976 - Senator J.D. Pastore
1994 - 99 No Recipients	

### **IEEE Communications Society Distinguished Industry Leader Award**

**Prize** – Plaque, certificate, and honorarium of \$2,000.

**Description** - To recognize an industry executive whose leadership has resulted in major and outstanding advances and new directions in the information and communications business area.

**Eligibility** – An information or communication industry executive who played a major leadership role in research or development and introduction of systems, devices, applications or services that have significantly impacted the communications and information markets on a global basis and substantially advanced the use of information and communication technologies in industry, commerce, and society. The candidate is not required to be an IEEE member.

**Basis for Judging** – Executive leadership resulting in major advances and new directions in the information and communications business area. Evaluation is based on such factors as global acceptance of the products and services, financial success and growth of the business, ubiquity of the products and services, emulation of the contributions by competition, and degree of global recognition of the candidate. Other factors include time of service, impact, specific innovations, etc.

**Nomination/Selection Process** – Nominations will be solicited each year, up to the nominations deadline decided by the Awards Committee. Nominations will be openly solicited; however, nominations would also be received from a Nominations Committee appointed by the President of the Communications Society.

**Presentation** - The award will be presented at a major Communication Society annual conference or venue appropriate to the business area of the recipient. The award will not be conferred in any given year if a suitable candidate is not identified. Annually (as appropriate); no more than two awards will be given per year.

**Administration and Funding** - The Communications Society will administer the award covered out of annual Society operating expenses until a suitable endowment is established.

### Recipients

2017 - Zhengmao Li

2016 - Jong-Kyun Shin

2015 – Paul E. Jacobs

2014 – Eros Spadotto

2013 - No recipient

2012 - Janusz Filipiak

Niklas Zennstrom

Janus Friis

2011 - Suk-Chae Lee

2010 - No recipient

2009 - Kaoru Yano

2008 - No recipient

2007 - Arun Sarin

2006 - Henry Samueli

2005 - No recipient

2004 - Ki Tae Lee

2004 - Irwin M. Jacobs

2003 - Jorma Ollila

2002 - John T. Chambers

## **IEEE Communications Society Industrial Innovation Award**

**Prize** – Plaque, certificate, and honorarium of \$1,000 for each recipient. Up to three individuals may receive this award in a calendar year, for separate accomplishments or as members of a team.

**Description** - To annually recognize an individual in industry for major industrial accomplishments, standards, deployment of important processes or products, etc., that substantially benefit the public in the field of communications and information technologies and are visible beyond the company or institution where the contribution was made.

**Eligibility** – Individuals at any level who were industry employees at the time of the accomplishments being recognized; candidate need not be an IEEE member.

**Basis for Judging** – Basis for judging and factors to be considered in the selection are time/length of service, impact in the field of communications, specific innovations benefiting industry, commerce, and society.

**Nomination/Selection Process** – The ComSoc Awards Committee will handle the evaluation and selection process. Nominations will be solicited each year, up to the nominations deadline decided by the Awards Committee. Calls for nominations are posted on the ComSoc Web page, Society magazine and electronic newsletter.

**Presentation** – Annually (as soon as possible after recommendation). No more than three awards may be made in any calendar year. The award will not be conferred in any given year if suitable candidates are not identified. The award presentation is made preferably at the IEEE GLOBECOM Awards Luncheon, or at a venue and time appropriate to the business area of the recipient. Award will be publicized on the ComSoc Web page, Society Magazine, electronic newsletter, and Awards Luncheon Brochure.

**Administration and Funding** - The IEEE Communications Society will administer the award. Funding will be covered by the annual Society operating budget unless a suitable endowment is established. Up to \$3000 (plus the minimal cost of plaques and certificates) will be budgeted annually to cover the cost of up to 3 recipients.

### **Recipients**

2017 - Thomas L. Marzetta

2016 - Thierry Klein

2015 - Chih-Lin I

2014 – Wen Tong

2013 - Rajiv Laroia

2012 – Stephen Alexander

2011 – Lawrence Bernstein

2010 – No Recipient

2009 - David Belanger

## IEEE Communications Society Education Award

**Prize** - Plaque, certificate, and honorarium of \$1,000.

**Description** - To recognize distinguished and significant contributions to education within the Society's technical scope.

**Eligibility** - A Communications Society member at the time of nomination who is an educator and who has made distinguished and substantial contributions to education within the fields of interest of ComSoc.

**Basis for Judging** - Nominees shall be judged by a career of meritorious achievement as exemplified by writing of scholarly books and texts, course materials, and papers on education; inspirational and innovative teaching; creativity in the development of new curricula and methodology, etc.

**Nominee Solicitation** - Nominations will be solicited each year, up to the nominations deadline decided by the Awards Committee. Nominations will be openly solicited.

**Selection Process** - All nominations shall be submitted to the IEEE Communications Society Awards Committee for final selection. The selection process shall comply with procedures and regulations established in IEEE and ComSoc governing documents, in particular with IEEE Policy 4.4 on Award Limitations.

**Presentation** - Annually presented by the IEEE Communications Society Awards Committee Chair, in the name of the IEEE Communications Society at the Global Communications Conference (GLOBECOM).

**Administration and Funding** - The IEEE Communications Society will administer the award. Funding will be covered by the annual Society operating budget unless a suitable endowment is established. The Society's budget includes the amount for this award and the Society budget is net positive with the inclusion of the award - \$1000 per year is needed.

### Recipients

2017 – Xuemin (Sherman) Shen

2016 – Michele Zorzi

2015 – Tarek S. El-Bawab

## SERVICE AWARDS

### IEEE Communications Society Donald W. McLellan Meritorious

## Service Award

**Prize** – Certificate, plaque, and honorarium of \$1,000 up to two awards per year.

**Eligibility** – Member of the Communications Society at time of nomination.

**Basis for Judging** – Outstanding long-term service to the welfare of the Communications Society.

**Presentation** – Annually (as soon as possible after recommendation). Award will not be presented if suitable candidate is not available.

### Recipients

2017 – No Award

2016 – Raouf Boutaba

2014-15 – No recipients

2013 – Byeong Gi Lee

2012 - Sergio Benedetto

2011 - Stefano Galli

2010 - Leonard J. Cimini, Jr.

2009 - Nim K. Cheung

2008 - Shri K. Goyal

2007 - Roberto Saracco

2006 - Alexander D. Gelman

2005 - Mark J. Karol

2004 - Harvey A. Freeman

2001-03 - No recipients

2000 - Douglas N. Zuckerman

1999 - No Recipient

1998 - Roberto de Marca

1997 - Curtis A. Siller

1996 - No Recipient

1995 - Thomas J. Plevyak

1994 - Raymond L. Pickholtz

1993 - Joseph L. LoCicero

1992 - Frederick T. Andrews

1991 - Celia Desmond

Jack C. McDonald

1990 - Richard P. Skillen

1989 - William H. Tranter

1988 - Richard A. Alston  
John Limb

1987 - Noriyoshi Kuroyanagi

1986 - Paul E. Green, Jr.  
John S. Ryan

1985 - M.R. Aaron  
Bruce DeMaeyer

1983 - Allen Gersho  
Adam Lender  
Stephen Weinstein

1982 - William W. Middleton  
Walter B. Noller

1981 - Richard L. Shuey  
Edward J. Doyle

1980 - Edward J. Glenner

1979 - Richard Kirby

1978 - Donald L. Schilling

1977 - David Solomon

1976 - Ran Slayton

Anthony B. Giordano

## IEEE Communications Society Harold Sobol Award for Exemplary Service to Meetings & Conferences

**Prize** – Plaque, certificate, and honorarium of \$1,000.

**Description and Eligibility** – Society member at time of nomination who has demonstrated exemplary services to the meetings and conferences of the Society over a sustained period of time. Evaluation of candidates is based on such factors as long-term service, significant contributions, strategic planning and financial success, etc.

**Basis for Judging** – Exemplary service to IEEE Communications Society meetings and conferences over a sustained period of time.

**Nomination/Selection Process** - Nominations will be openly solicited but they will be screened and reduced to a short list by a nominations committee chaired by the Vice President Conferences and consisting of members of the Conferences Steering Committee. The short list will be provided to the Awards Committee and the Awards Committee will select the final awardee.

**Schedule and Presentation** - Nominations will be solicited each year, up to the nominations deadline decided by the Awards Committee. The award will be presented at GLOBECOM or other venue appropriate to the award and the recipient. The award will not be conferred in any given year if a suitable candidate is not identified. Annually (as appropriate); no more than one award will be given per year.

**Administration and Funding** - The Communications Society will administer the award. Funding will be covered out of annual Communications Society operating expenses unless a suitable endowment is established.

### Recipients

2017 – Chengshan Xiao

2016 – Merrily W. Hartmann

2015 - Mehmet Ulema

2014 – Stefano Bregni

2013 - Gerhard Fettweis

2012 - Hikmet Sari

2011 - Khaled B. Letaief

2010 - Abbas Jamalipour

2009 - Heinrich Stuttgarten

2008 - J. Roberto B. de Marca

2007 - Raouf Boutaba

2006 - Paul R. Hartmann

2005 - Jaafar M.H. Elmirghani

2004 - No recipient

2003 - Doug Lattner

2002 - Douglas N. Zuckerman

2001 - Harvey A. Freeman

2000 - Ross C. Anderson

## IEEE Communications Society Joseph LoCicero Award for Exemplary Service to Publications

**Prize** – Plaque, certificate, and honorarium of \$1,000.

**Description and Eligibility** – A Society member at time of nomination who has been involved with one or more of the Society’s publications (e.g., journals, magazines; print or electronic) for a sustained period of time and having made

notable contributions in areas such as editing, publishing or otherwise facilitating their realization, quality, scope or visibility.

**Basis for Judging** – Is exemplary and exceptional service to IEEE Communications Society publications over a sustained period of time. Factors to be considered in the selection are time of service, impact, specific innovations, etc.

**Nominee Selection** – Award will be presented annually to a recipient selected by a Publications Award Selection Committee working in conjunction with the Communications Society Award Committee. Nominations shall be solicited, screened and reduced to a short list by the Selection Committee (Vice President of Publications; Directors of Journals and Magazines, and Editors-in-Chief of the Society’s publications) with external consultation, as appropriate, and submitted to the Communications Society Awards Committee for final selection.

**Schedule and Presentation** - Nominations will be solicited each year, up to the nominations deadline decided by the Awards Committee. The award will be presented at a venue appropriate to the award and the recipient. The award will not be conferred in any given year if a suitable candidate is not identified. Annually (as appropriate).

**Administration and Funding** - The IEEE Communications Society will administer the award. Funds will be covered out of annual Communications Society operating expenses until a suitable endowment is established.

### Recipients

2017 – Sara Kate Wilson

2016 – Leonard J. Cimini Jr.

2015 - Xuemin (Sherman) Shen

2014 – Chengshan Xiao

2013 - David Daut

2012 - Nelson Fonseca

2011 - Vijay Bhargava

2010 - Larry Greenstein

2009 - Raouf Boutaba

2008 - Andrzej Jajszczyk

2007 - Khaled Ben Letaief

2006 - James F. Kurose

2005 - Yeheskel (Zeke) Bar-Ness

2004 - Desmond P. Taylor

2003 - No recipient

2002 - Curtis A. Siller

2001 - William H. Tranter

1999 - Joseph L. LoCicero

1998 - Paul E. Green, Jr.

### IEEE ComSoc/KICS Exemplary Global Service Award

**Prize** – Plaque, certificate, and honorarium of \$2,000 and up to \$1,500 for travel to receive award.

**Description and Eligibility** – Member of the Communications Society or the Korean Information & Communications Society at time of nomination and have demonstrated exemplary and distinguished service in globalization.

**Basis for Judging** – Outstanding and long-term service fostering and advancing globalization within the communications arena.

**Nomination/Selection Process** – ComSoc Awards Committee will handle the evaluation and selection process. Nominations will be solicited each year, up to the nominations deadline decided by the Awards Committee.

**Presentation** - The award will be presented annually by presidents of both societies during IEEE GLOBECOM. Annually (as appropriate); award will not be conferred in any given year if a suitable candidate is not identified.

**Administration and Funding** - KICS will provide the honorarium and partial travel support; ComSoc will provide the plaque and certificate.

**Award Committee** - The IEEE Communications Society Awards Committee will be responsible for the final selection. The committee consists of a chair (appointed by the president for a two-year term) and at least 12 members (appointed by the chair for a three-year term)

**Recipients**

2017 Byeong Gi Lee

2015-16 - No recipient

2014 - Lin-Shan Lee

2012-13 - No recipients

2011 - J. Roberto B. DeMarca

2010 – Roberto Saracco

2009 - Tomonori Aoyama

2008 - Maurizio Decina

2007 - Stephen B. Weinstein



## PAPER AWARDS

Note: ComSoc magazines and journals are defined as those financially sponsored, in whole or in part, by the IEEE Communications Society.

### The IEEE Communications Society Best Tutorial Paper Award

**Prize** – Plaque and honorarium up to \$500 for each author; total not to exceed \$1,000.

**Eligibility** – Given to an outstanding tutorial paper published in any Communications Society magazine or journal in the previous 5 calendar years; author need not be an IEEE member.

**Basis for Judging** – Clarity and quality of presentation, timeliness and relevance of topic.

**Nominee Solicitation** – Nominations solicited by Chair of Magazines/Journals Paper Awards Selection Committees in consultation with Magazines/Journals Editors-in-Chief.

**Selection Process** – Nominations screened and short list prepared by the Magazines and Journals Paper Awards Selection committees with the approval of the Magazines/Journals Editors-in-Chief, Director of Magazines, and Director of Journals. The short list submitted to the Communications Society Awards Committee for final selection.

**Presentation** – Annually (as soon as possible after recommendation). Award will not be given if a paper of high quality is not uncovered.

### The IEEE Communications Society Leonard G. Abraham Prize (in the Field of Communications Systems)

**Prize** – Plaque and honorarium up to \$500 for each author; total not to exceed \$1,000.

**Eligibility** – Publication of an original paper, in the category of Communications Systems, published in the *IEEE Journal on Selected Areas in Communications* in the previous 3 calendar years; author need not be an IEEE member.

**Basis for Judging** – Quality, originality, utility, timeliness, clarity of presentation.

**Nominee Solicitation** – Nominations solicited by Journal Editor-in-Chief from the Editorial Board, guest Editors, and readership (through published notice).

**Selection Process** – Nominations screened and reduced to a short list by a committee of the Editorial Board and submitted to the Communications Society Awards Committee for final selection.

**Presentation** – Annually (as soon as possible after recommendation). Award will not be given if a paper of high quality is not uncovered.

### **The IEEE Communications Society Stephen O. Rice Prize (in the Field of Communications Theory)**

**Prize** – Plaque and honorarium up to \$500 for each author; total not to exceed \$1,000.

**Eligibility** – Publication of an original paper, in the category of Communications Theory, published in the *IEEE Transactions on Communications* in the previous 3 calendar years; author need not be an IEEE member.

**Basis for Judging** – Quality, originality, utility, timeliness, clarity of presentation.

**Nominee Solicitation** – Nominations solicited by Transactions Editor-in-Chief from the Editorial Board, guest Editors, and readership (through published notice).

**Selection Process** – Nominations screened and reduced to a short list by a committee of the Editorial Board and submitted to the Communications Society Awards Committee for final selection.

**Presentation** – Annually (as soon as possible after recommendation). Award will not be given if a paper of high quality is not uncovered.

### **The IEEE Communications Society William R. Bennett Prize in the Field of Communications Networking**

**Prize** – Plaque and honorarium up to \$500 for each author; total not to exceed \$1,000.

**Eligibility** – Publication of original paper, in the category of Communications Networking, published in the *IEEE/ACM Transactions on Networking* or the *IEEE Transactions on Network and Service Management* in the previous 3 calendar years; author need not be an IEEE member.

**Basis for Judging** – Quality, originality, utility, timeliness, clarity of presentation.

**Nominee Solicitation** – Nominations solicited by Transactions Editor-in-Chief from the Editorial Board, guest Editors, and readership (through published notice).

**Selection Process** – Nominations screened and reduced to a short list by a committee of the Editorial Board and submitted to the Communications Society Awards Committee for final selection.

**Presentation** – Annually (as soon as possible after recommendation). Award will not be given if a paper of high quality is not uncovered.

### The IEEE Communications Society Fred W. Ellersick Prize

**Prize** – Plaque and honorarium up to \$500 for each author; total not to exceed \$1,000.

**Eligibility** – Publication of an original paper in any Communications Society magazine in the previous 3 calendar years; author need not be an IEEE member.

**Basis for Judging** – Quality, utility, timeliness, and clarity of presentation, comprehensible to the non-specialist.

**Nominee Solicitation** – Nominations solicited by the Chair of Magazines Paper Awards Selection Committee in consultation with Magazines Editors-in-Chief.

**Selection Process** – Nominations screened and short list prepared by the Magazines Paper Awards Selection Committee with the approval of the Magazine's Editors-in-Chief. The short list is submitted to the Communications Society Awards Committee for final selection.

**Presentation** – Annually (as soon as possible after recommendation). Award will not be given if a paper of high quality is not uncovered.

### The IEEE Communications Society Heinrich Hertz Award for Best Communications Letter

**Prize** - Plaque and honorarium of \$500 per author (up to a maximum total of \$2000).

**Description** - Letters published in any letter journal financially sponsored or co-sponsored by the Communications Society which open new lines of research, envision bold approaches to communication, formulate new problems to solve, and essentially enlarge the field of communications engineering are eligible for this annual award.

**Eligibility** - For an outstanding manuscript published in any letter journal during the previous three calendar years which opens new lines of research, envisions bold approaches to communication, formulates new problems to solve, and essentially enlarges the field of communications engineering. Recipients need not be IEEE members.

**Basis for Judging** - Quality, exposition, novelty and impact.

**Nominee Solicitation/Selection** - Nominations will be solicited by the Editor-in-Chief of the letter journal from the Editorial Board. Each associate editor may submit no more than one paper to the Editor-in-Chief for consideration. A subcommittee comprised of the Editor-in-Chief and five Associate Editors will screen the nominated papers. Nominations will also be solicited from ComSoc Technical Committee chairs and readership (through published notices).

No more than five manuscripts will be submitted to the Awards Committee for final selection by March 1 of each year. Selection will be based on rankings given to each nominated paper by each member of the subcommittee. Each paper submitted to the Awards Committee will be accompanied by a summary statement.

**Administration** - The IEEE Communications Society will administer the award covered out of the Society's annual operating budget until a suitable endowment is established. Each recipient receives an honorarium of \$500 up to maximum of \$2000 (plus the minimal cost of plaques) and will be budgeted annually to cover the total cost of up to \$2000 per year.

**Presentation** - Annually, at ICC or GLOBECOM (as soon as possible after recommendation). Award will not be given if a paper of high quality is not uncovered.

### **The IEEE Communications Society/Information Theory Society Joint Paper Award**

**Prize** – A plaque and an honorarium up to \$500 for each author; total not to exceed \$1,000 for each paper.

**Eligibility** – For outstanding papers published in any publication of the Communications Society or IEEE Information Theory Society within the previous three calendar years. The authors do not have to be members of IEEE. Presented annually.

**Basis for Judging** – Quality, originality, utility, timeliness, and presentation. The paper should cover the interests and achieve the values of both the Communications Society and Information Theory Society.

**Sponsorship and Funding** – Jointly sponsored by IEEE Communications Society (ComSoc) and Information Theory Society (IT). Funding evenly divided by the two sponsoring societies.

**Selection Process** –

1. Each year a joint papers evaluation subcommittee of six members is formed with three from each of the Awards committees of the two Societies. ComSoc's members are appointed by the Chair of the ComSoc Awards Committee.
2. This subcommittee considers ranked nominations from publications boards in both societies and selects 1 or 2 papers as the award recipients. No paper already selected for a ComSoc paper award will be eligible. The processes/timelines will be the same as all other paper awards.

**Presentation** – Annually at any event sponsored by either of the two sponsoring societies selected by the recipient(s).

### IEEE Marconi Prize Paper Award in Wireless Communications

**Prize** – Plaque, honorarium of up to US\$1,000, travel reimbursement of up to US\$3,000.

**Description** - The IEEE Guglielmo Marconi Best Paper Award is an annual award, sponsored by Qualcomm Inc., for an original paper in the field of Wireless Communications published in the *IEEE Transactions on Wireless Communications* (co-sponsored by the IEEE Communications Society and IEEE Signal Processing Society).

**Eligibility** - Author of an original paper in the field of Wireless Communications, published in the *IEEE Transactions on Wireless Communications* in the previous 3 calendar years, are eligible for the Award. There are no restrictions as to IEEE membership, nationality, race, creed, age or gender.

**Basis for Judging** – Originality, utility, timeliness, and clarity of presentation.

**Nominee Solicitation** – Nominations solicited by the Editor-in-Chief of *IEEE Transactions on Wireless Communications* from the Editorial Board, guest Editors, and readership (through published notice).

**Selection Process** – Annually solicitations are sought from 1 January through 31 January; a short list is generated by 1 March; selection by an award committee (consisting of 3 members of the ComSoc Awards Committee and 1 from the Signal Processing Society) is completed by 10 April; the Chair of the Communications Society Awards Committee notifies recipients no later than 20 April.

**Administration** – Sponsored by Qualcomm Inc., in addition to the \$1000 honorarium, a travel reimbursement of up to US\$3000 is provided for travel and living to enable recipients to attend the Awards Luncheon.

**Presentation** – Annually presented by the IEEE Communications Society Awards Committee Chair, in the name of the IEEE Communications Society, the IEEE

Signal Processing Society, and the external sponsor of the award, at the International Conference on Communications.

### **The IEEE Communications Society Award for Advances in Communication**

**Prize** – Plaque and honorarium of \$500 per author (up to a maximum total of \$2000).

**Eligibility** – Papers that open new lines of work, envision bold approaches to communication, formulate new problems to solve, and essentially enlarge the field of communications engineering. Given to an outstanding paper published in any IEEE Communications Society publication in the previous 15 calendar years; author need not be an IEEE member.

**Basis for Judging** – Quality, originality, novelty and impact.

**Nominee Solicitation** – Nominations solicited by Editors-in-Chief to the Editorial Boards and guest Editors of all IEEE Communications Society publications. After screening, each Editor-in-Chief shall submit at least one nomination. Nominations will also be solicited from ComSoc Technical Committee chairs and readership (through published notice).

**Selection Process** – All nominations shall be submitted to the IEEE Communications Society Awards Committee for final selection by March 1 of each year. The selection process shall comply with procedures and regulations established in IEEE and ComSoc governing documents, in particular with IEEE Policy 4.4 on Award Limitations.

**Administration and Funding** – The IEEE Communications Society will administer the award covered out of annual Society operating expenses until a suitable endowment is established.

**Presentation** – Annually at ICC or GLOBECOM. Award will not be given if a paper of high quality is not uncovered. Award and recipient will be published in the ComSoc Awards Luncheon brochure and posted on the ComSoc web site.

### **IEEE Communications Society Charles Kao Award for Best Optical Communications & Networking Paper**

**Prize** - Plaque and honorarium of \$500 per author (up to a maximum total of \$2,000). If more than four authors, the maximum of \$2,000 would be split between each author.

**Description** - Award to recognize a best paper award published in *OSA/IEEE Journal on Optical Communications & Networking*.

**Eligibility** - This award will be given to papers published in the *OSA/IEEE Journal on Optical Communications & Networking (JOCN)* that open new lines of research, envision bold approaches to optical communication and networking, formulate new problems to solve, and essentially enlarge the field of optical communications and networking. Papers published in the prior three calendar years of *JOCN* are eligible for the award. Author need not be an IEEE member.

**Basis for Judging** - Quality, exposition, novelty and impact.

**Nominee Solicitation** - Nominations will be solicited by the Editor-in-Chief of *OSA/IEEE Journal on Optical Communications & Networking* from the Editorial Board. Each associate editor may submit no more than one paper to the Editor-in-Chief for consideration. Nominations will also be solicited from ComSoc Technical Committee chairs and readership (through published notices).

**Selection Process** - A sub-committee comprised of the Editor-in-Chief and five Associate Editors will screen the nominated papers. Selection will be based on rankings given to each nominated paper by each member of the sub-committee. Each paper submitted to the Awards Committee will be accompanied by a summary statement. The selection process complies with procedures and regulations established in IEEE and Communications Society governing documents, in particular with IEEE Policy 4.4 on Award Limitations.

**Administration and Funding** - The IEEE Communications Society will administer the award covered in part by an endowment established by the IEEE Foundation and the remaining out of annual Society operating expenses. The Society's budget includes the amount for this award and the Society budget is net positive with the inclusion of the award.

**Presentation** - Annually, at the OFC Conference

### **IEEE Communications Society Young Author Best Paper Award**

**Prize** - Plaque and honorarium of \$1000. In the event that there is more than one young author, the maximum prize shall be divided equally among all young authors and each shall receive a plaque.

**Description** - The Young Author Best Paper Award honors the author(s) of an especially meritorious paper dealing with a subject related to the Society's technical scope and who, upon the date of submission of the paper, is less than 30 years of age.

**Eligibility** - Author(s) of an original paper in a subject related to the Society's technical scope and appearing in one of the Society's solely owned or jointly owned transactions or journals in the previous 3 calendar years and who, upon the date of submission of the paper, is(are) less than 30 years of age. There are

no restrictions as to IEEE membership, nationality, race, creed, age or gender. The prize is only presented to the young author(s) who are under 30 years of age and have made a substantial contribution to the paper.

**Frequency** -Annually; if, in any year, no eligible paper is deemed to be of sufficient quality, no award will be given.

**Basis for Judging** - Originality, utility, timeliness, impact, and clarity of presentation.

**Nominee Solicitation** - Nominations solicited by Editors-in-Chief to the Editorial Boards and guest Editors of all IEEE Communications society publications. After screening, each Editor-in-Chief shall submit at least one nomination. Nominations will also be solicited from ComSoc Technical Committee chairs and readership (through published notice).

**Selection Process** - All nominations shall be submitted to the IEEE Communications Society Awards Committee for final selection by February 15 of each year. The selection process shall comply with procedures and regulations established in IEEE and ComSoc governing documents, in particular with IEEE Policy 4.4 on Award Limitations.

**Administration/Funding** - Budget Implication - \$1000 per year. The IEEE Communications Society will administer the award out of annual Society operating budget. The Society's budget includes the amount for this award and the Society budget is net positive with the inclusion of the award.

**Presentation** - Annually presented by the IEEE Communications Society Awards Committee Chair, in the name of the IEEE Communications Society at the International Conference on Communications (ICC).

### **IEEE Communications Society Best Survey Paper**

**Prize** - Plaque and honorarium of \$500 per author (up to a maximum total of \$1,000). If more than four authors, the maximum of \$1,000 would be split between each author.

**Description** - Award honors the author(s) of an especially meritorious paper published in a ComSoc owned journal dealing with a subject related to the Society's technical scope.

**Eligibility** -This award will be given to papers published in any journal owned exclusively by the IEEE Communications Society in the past five years. Eligibility and Selection process shall comply with procedures and regulation established in IEEE and Society governing documents, particularly with IEEE Policy 4.4 on Awards Limitations. There are no restrictions as to IEEE membership, nationality, race, creed, age or gender.



**Frequency**

Annually; if, in any year, no eligible paper is deemed to be of sufficient quality, no award will be given.

**Basis for Judging** -Originality, utility, timeliness, impact, technical content and clarity of presentation.

**Nominee Solicitation** - Nominations are solicited by Editors-in-Chief with the aid of their Editorial Boards and guest Editors of all IEEE Communications society publications. After screening, each Editor-in-Chief shall submit at least one nomination. Nominations will also be solicited from ComSoc Technical Committee chairs and the community at large.

**Administration and Funding** - The IEEE Communications Society will administer the award covered in part by an endowment established by the IEEE Foundation and the remaining out of annual Society operating expenses. The Society's budget includes the amount for this award and the Society budget is net positive with the inclusion of the award.

**Presentation** - Annually, at the ICC Conference.

# PAPER AWARDS NOMINATION PROCESS

## Communications Society Paper Awards

The Communications Society's Awards Committee retains responsibility for the ultimate selection of winning papers and functioning of the awards process. It coordinates the nomination and decision processes; and Staff orders the certificates, plaques, and honorariums. ComSoc magazines and journals are defined as those financially sponsored, in whole or in part, by the IEEE Communications Society.

Magazine and Journals Editors-in-Chief are responsible for generating short nomination lists for their respective prizes, these lists become the major basis for decisions of the Awards Committee. Nominations are solicited by each Editor-in-Chief from his/her Editorial Board, guest editors, and the readership. Nominations may be solicited in a published notice. These nominations are then screened/reduced to a short list and submitted to the Awards Committee for final selection. (See specific details under each paper award.)

The Society welcomes nominations from Society Members for Prize Papers published in previous years. Such action will give a deserving colleague a chance for one of these prestigious awards. A nomination should clearly state the authors, paper title, the publication and issue in which the paper appeared, and, in a few words, why the paper deserves an award. It should then be sent to the Editor-in-Chief of the publication in which the paper appeared (see current EICs listed under "Publications" in front part of the ComSoc Community Directory).

### **The Communications Society Best Tutorial Paper Award**

For an outstanding tutorial paper published in any Communications Society magazine or journal in the previous 5 calendar years.

### **The Communications Society Leonard G. Abraham Prize**

For a paper published in the category of Communications Systems, published in the *IEEE Journal on Selected Areas in Communications* in the previous 3 calendar years.

### **The Communications Society Stephen O. Rice Prize**

For a paper published in the category of Communications Theory, published in the *IEEE Transactions on Communications* in the previous 3 calendar years.

### **The Communications Society William R. Bennett Prize in the Field of Communications Networking**

For a paper in the *IEEE/ACM Transactions on Networking* or the *IEEE Transactions on Network and Service Management* in the previous 3 calendar years.

**The Fred W. Ellersick Prize**

For a paper in any Communications Society magazine in the previous 3 calendar years.

**The Communications Society Heinrich Hertz Award for Best Communications Letter**

For letters published in any letter journal financially sponsored or co-sponsored by the Communications Society which essentially enlarge the field of communications engineering in the previous 3 calendar years.

**The ComSoc & Information Theory Joint Paper Award**

For a paper, relevant to both Societies, that appeared in any publication of the Communications Society or the Information Theory Society in the previous 3 calendar years.

**The IEEE Marconi Prize Paper Award in Wireless Communications**

(ComSoc and Signal Processing Society)

For a paper from *IEEE Transactions on Wireless Communications* in the previous 3 calendar years.

**The Communications Society Award for Advances in Communication**

For a paper in any Communications Society journal or magazine in the previous 15 calendar years.

**IEEE Communications Society Charles Kao Award for Best Optical Communications & Networking Paper**

Award to recognize a best paper award published in *OSA/IEEE Journal on Optical Communications & Networking*.

**IEEE Communications Society Young Author Best Paper Award**

For a paper in one of the Society's solely owned or jointly owned transactions or journals in the previous 3 calendar years, the author(s) of which is (are) less than 30 years of age.

**IEEE Communications Society Best Survey Paper**

For a papers published in any journal owned exclusively by the IEEE Communications Society in the past five years.

The short nomination lists for all prize papers are submitted to the Communications Society Awards Committee no later than January 31 of the year following the year in which papers were published. Award presentations are traditionally made at ICC each year.

## IEEE Awards

Recognition for an outstanding paper can be given at both Society and Institute levels. Editors-in-Chief may wish to nominate automatically the winning Communications Society papers for appropriate IEEE awards. (See the IEEE web site for awards information: About Us/Awards)

**W. R. G. Baker Award** recognizes an outstanding original paper published in any IEEE journal, transactions, proceedings, or magazine in the past year.

**Donald G. Fink Award** recognizes an outstanding survey or tutorial paper published in any IEEE journal, transactions, proceedings, or magazine in the past year.

# IEEE COMMUNICATIONS SOCIETY CONSTITUTION

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8. Amendments

#### Article 1—Name, Purposes, and Scope

**1.1 Name** - The name of this organization is the IEEE Communications Society, hereinafter referred to as “the Society.” It is organized within the Institute of Electrical and Electronics Engineers, Inc. hereinafter called “the IEEE.”

**1.2 Purposes** - The purposes of the Society are:

- Scientific and educational – directed toward the advancement of the theory, practice and application of communications engineering and related arts and sciences;
- Professional – directed toward promotion of high professional standards, development of competency and advancement of the standing of members of the profession it serves.

**1.3** The Society promotes cooperation and exchange of information among its members and those of other organized bodies within and outside the IEEE. Means to these ends may include, but are not limited to, the holding of meetings for the presentation and discussion of papers, the publication of journals, sponsorship of tutorial seminars and workshops, stimulation of research, the education of members, establishment of standards, and providing for the technical and professional needs of its members via organized efforts.

**1.4 Scope** – The IEEE Communications Society embraces the science, technology, applications and standards for information organization, collection and transfer using electronic, optical and wireless channels and networks, including but not limited to:

- Systems and network architecture, control and management;
- Protocols, software and middleware;

- Quality of service, reliability and security;
- Modulation, detection, coding, and signaling;
- Switching and routing;
- Mobile and portable communications;
- Terminals and other end devices;
- Networks for content distribution and distributed computing; and
- Communications-based distributed resources control.

**1.5 Authority** - Society organization and operations are in accordance with the IEEE Constitution and Bylaws, IEEE Policies, IEEE Operations Manuals of Major Boards reporting to the IEEE Board of Directors, and Society governing documents that are not in conflict with any of the aforementioned documents..

## **Article 2—Bylaws**

**2.1** Bylaws are rules and regulations adopted by the Society for governing its members and for the overall management of its affairs. They provide guidance to govern all phases of the organization, management and activities, as outlined in the Constitution. Bylaws may not be in conflict with the Constitution. Bylaws are approved and amended by the Board of Governors and may be changed as Society interests evolve.

## **Article 3—Policies and Procedures**

**3.1** Policies and Procedures provide more detailed statements about specific policies, objectives, and procedures than are contained in the Constitution or Bylaws. Policies and Procedures shall be amended as specified in the Bylaws.

## **Article 4—Membership**

**4.1** IEEE members of any grade shall become Society members upon application and payment of the Society membership dues. The membership dues, the cost of publications, and other considerations members receive for the membership dues are to be set as part of the Society's annual budget.

**4.2** Grades of membership for the Society shall be as specified in the Bylaws.

**4.3** Individuals who are not members of the IEEE may become Affiliate members of the Society upon:

- Meeting the requirements established in the IEEE Bylaws for Affiliate membership;
- Making proper application for Affiliate membership;
- Making appropriate payment for Affiliate membership.

Any other requirements for Affiliate membership shall be as established in the IEEE Bylaws.

## **Article 5—Organization**

**5.1 Board of Governors (BoG)** – The Society shall be governed by the BoG. The BoG shall have primary fiduciary responsibility for the Society and shall set Society policy.

**5.2 Society Officers.**

**5.2.1 Elected Officers** – The Society Officers elected by the Society membership shall be:

- **President-Elect** – The President-Elect shall serve a one-year term the year following his/her election. Following the term of one year as President-Elect, the holder of that office shall serve as President in the subsequent two years and shall serve as Past President in the year after that. The President is the Chief Executive Officer of the Society and chairs the BoG.
- **Vice Presidents** – Each shall chair a Council responsible for a key area of interest to the Society.
- **Members-at-Large** – They shall be elected for staggered multiyear terms. The operations of the Society shall be assessed periodically, and the number of Members-at-Large shall be adjusted in accordance with membership needs and growth.
- **IEEE Division III Delegate(s)/Director(s)** elected by Society membership. By virtue of such election, the holder of that office shall also be a Society Officer.

All elected Officers, including the President and the Past President, shall be voting members of the BoG.

**5.2.2 Appointed Officers** – The President shall appoint Officers to assist in managing Society activities. As specified in the Bylaws, such appointments may be made upon recommendation of the appropriate Vice President may require BoG approval, and the initial appointments for a President’s term shall be proposed for BoG approval in an odd-numbered year by the President-Elect. These Officers serve concurrently with the nominal term of the President. The Society appointed Officers, subject to BoG approval, shall be:

- **Treasurer**, who shall be responsible for the financial affairs of the Society.
- **Directors**, each of whom shall chair a Board.
- **Other appointed Officers** as may be provided for in the Bylaws.

Appointed Officers may be non-voting members of the BoG, as specified in the Bylaws. Appointed Officers serving on the BoG

may participate in discussions and make or second motions. If appointed Officers are serving on the BoG concurrently as elected Officers, then they shall be voting members of the BoG.

- 5.3 Operating Committee** – Management of Society affairs between regular and special meetings of the BoG is delegated to an Operating Committee (OpCom). Actions of OpCom shall be ratified at the next BoG meeting, except for those actions taken in areas already delegated.
- 5.4 Councils** – Councils report to the BoG. They are responsible for the policies of their Boards/Standing Committees, and they oversee the operations of their Boards/Standing Committees, address issues common to all their Boards/Standing Committees, address issues that could not be resolved at the Board/Standing Committee level, and escalate such issues to the BoG if they cannot be resolved at the Council level. Councils are established and dissolved through resolutions of the BoG, as specified in the Bylaws.
- 5.5 Boards** – Boards are the major operational entities of the Society and report to Councils, as specified in the Bylaws. Boards have scopes aligned with the scope of their Councils and, within their scopes, they may decide policies and make operational decisions as allowed by their Councils. Boards are established and dissolved through resolutions approved by the BoG, as specified in the Bylaws.
- 5.6 Standing Committees** – Standing Committees report to the BoG or Councils, as specified in the Bylaws. They are established and dissolved through resolutions approved by the BoG, as specified in the Bylaws.
- 5.7 Ad Hoc Committees** – Ad Hoc Committees may be established or dissolved by the President, and report to the BoG.
- 5.8 Professional Staff** – The Staff consists of paid professional employees of IEEE who support the activities of the Society. The Staff is managed by the Society Executive Director who is a Society Officer, an ex-officio non-voting member of the BoG, and also serves as the BoG Secretary.

## **Article 6—Finances**

- 6.1 Assets** – All funds and property held by or for the Society are vested in the IEEE.
- 6.2 Revenues** – Basic revenues consist of dues or assessments that are levied on members of the Society, covering publications supplied and services rendered to all members. Other revenues may be raised from other sources, consistent with IEEE regulations. Proposed new income sources require the approval of IEEE.
- 6.3 Budget** – An annual budget shall be prepared and approved by the BoG and IEEE in advance of each fiscal year. Any changes to the budget, or expenditures in excess of budgeted amounts or for unbudgeted items,



require advance approval by the BoG before commitment and/or payment.

- 6.4 Debts** – Neither the Society nor any Officer or representative thereof has any authorization to contract debts for, pledge the credit of, or in any way bind the IEEE without prior approval or authorization by persons, organizations or documents as specified by IEEE.

## **Article 7—Member Services**

- 7.1 Meetings and Conferences** – Principal Society meetings are conferences, workshops, symposia and conventions, held either alone or in cooperation with other IEEE units and/or other professional or technical organizations.
- 7.2 Publications** – The Society, subject to the editorial and fiscal policies of the IEEE, publishes magazines, transactions, journals and other technical materials, such as leading-edge technical articles, tutorials, conference papers, etc. Subscriptions charged for such publications may be higher for non-member subscribers and purchasers than for Society members.
- 7.3 Education** – Principal educational activities include basic and continuing education and training programs.
- 7.4 Standards** – The Society sponsors standards development in accordance with the process defined and approved by IEEE Standards Associations. It also organizes standards-related activities that comply with applicable IEEE/ComSoc and/or IEEE-SA policies.

## **Article 8—Amendments**

### **8.1 Constitution**

**8.1.1** Amendments to this Constitution may be initiated with a:

- Proposal approved by the BoG.
- Petition submitted to the President by a minimum of 100 Members.

**8.1.2 Procedure on Proposals** – Proposed amendments to the Constitution require two-thirds majority vote of all the voting members of the BoG. Amendments are subject to the approval of the IEEE Vice President, Technical Activities, in accordance with the guidelines set forth in the TAB Operations Manual. After such approval, the proposed amendment shall be published in the Society magazine, or sent to the membership via email or eNewsletter. The amendment becomes effective unless one percent or more of the membership objects in writing to the designated IEEE office within 60 days of publication.

**8.1.3 Procedure on Petitions** – When a petition for a proposed amendment is submitted, the BoG shall prepare a summary statement and a recommendation for or against adopting the amendment. Summary statements and recommendations require a two-thirds majority vote of all the voting members of the BoG. The petition, summary statement, and recommendation shall be subject to approval by the IEEE Vice President, Technical Activities, in accordance with the guidelines set forth in the TAB Operations Manual. After such approval, the proposed amendment shall be published in the Society magazine, or sent to the membership via email or eNewsletter. The amendment becomes effective unless one percent or more of the membership objects in writing to the designated IEEE office within 60 days of publication.

**8.1.4 Objections** – If one percent or more objects, a ballot with the proposed amendment shall be mailed or emailed to all voting members of the Society. A return date of at least 60 days shall be allowed. Proposed amendments require a two-thirds majority of the returned ballots for approval.

**8.1.5** An amendment shall become effective 60 days after all necessary approvals and notifications.

## **8.2 Bylaws**

**8.2.1** Approval of amendments to the Bylaws at a BoG meeting shall require a two-thirds vote of BoG members in attendance, provided a quorum is present.

**8.2.2** Approval of amendments to the Bylaws without a meeting shall require a two-thirds majority vote of all the voting members of the BoG.

**8.2.3** Bylaws amendments are subject to the approval of the IEEE Vice President, Technical Activities, in accordance with the guidelines set forth in the TAB Operations Manual. After such approval, the amendment shall be published in the Society magazine or sent to the membership via email or eNewsletter.

# IEEE COMMUNICATIONS SOCIETY BYLAWS

Approved December 2004; Amended 5/2005, 12/2005, 10/2006, 12/2006, 6/2007, 5/2008, 12/2008, 6/2009, 12/2009, 12/2010, 01/2011, 01/2011, 12/2011, 04/2012, 09/2013, 04/2014, 07/2015, 12/2015, 08/2017, 04/2018

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### ARTICLE 1 – OBJECTIVES

- 1.1 Objectives – The objectives of the Society are to provide its members and the global community of communications professionals with the services outlined in Clauses 1.2, 1.3, and 1.4.
- 1.2 Technical Information
  - Creation via research and innovation in the IEEE Communications Society community
  - Identification and promotion of hot topics
  - Worldwide dissemination via publications, presentations, and electronic media

- Exchange via Chapter activities, workshops, discussions, mutual assessments, general networking on technical subjects, and other means of professional communication
  - Facilitation of standards activities
- 1.3 Education (basic and continuing)
- Tutorials, short courses, lecture programs
  - Chapter support and other delivery mechanisms
- 1.4 Professional Services
- Personal career growth by providing technical and personal development information
  - Job opportunity benefits through inter-personal networking and facilitation of interactions among members
  - IEEE programs

## **ARTICLE 2 – MEMBERSHIP**

- 2.1 Availability of membership in the Society is specified in the Constitution.
- 2.2 Categories of Society membership shall be in accordance with IEEE Bylaws. A member's grade within the Society shall be the same as that member's IEEE grade.
- 2.3 Members who hold the grade of Graduate Student Member, Member, Senior Member, or Fellow in the IEEE shall have all the rights and privileges of membership within the Society unless otherwise specified in these Bylaws.
- 2.4 Student Members, Associate Members, and Affiliates shall have all the rights and privileges of membership within the Society with the exception of the right to vote on matters presented to the Society membership and the right to hold office.
- 2.5 A Society member who is delinquent in paying Society dues shall be dropped from membership according to IEEE procedures. A former member may reinstate membership upon payment of current dues.

## **ARTICLE 3 – OFFICERS AND OPERATIONS**

- 3.1 All officers (except the Society Executive Director) who are members of the Board of Governors (BoG), Councils, Boards, and Standing and Ad Hoc Committees or are Technical Committee Chairs and Society Representatives shall be Members of the Society. The President-Elect and Vice Presidents (VPs) shall be Senior Members or Fellows of the IEEE.
- 3.2 Elected Officers
- 3.2.1 President-Elect, Vice President-Technical and Educational Activities (VP-TEA), Vice President-Publications (VP-PUB), Vice

President-Conferences (VP-CON), Vice President-Member and Global Activities (VP-MGA), Vice President-Industry and Standards Activities (VP-ISA), IEEE Division III Delegate(s)/Director(s)-Elect, and Members-at-Large of the BoG are elected by direct vote of the voting Members of the Society.

- President-Elect shall be elected in even-numbered years, and Vice Presidents in odd-numbered years.
- One-third of the total (12) Members-at-Large shall be elected annually.
- When an elected officer, except the President-Elect, is elected to another Society position, that officer shall resign from the former position upon taking the new office.
- When an elected officer is elected to the position of President-Elect, that officer may continue to hold the current position until the conclusion of its term or upon entering the position of President, whichever comes first.

### 3.2.2 Terms of Office

- The President-Elect shall serve a one-year term the year following the election to President-Elect (odd-numbered), then begin a two-year term as President the following year (even-numbered), and then continue for a one-year term (even-numbered) as Past President.
- Vice Presidents shall serve two-year terms beginning in the even-numbered year following their election.
- Members-at-Large shall serve a three-year term beginning the year following their election.

### 3.2.3 Eligibility for Re-election

- The President-Elect shall not be re-elected President-Elect for more than one term, consecutive or otherwise.
- Vice Presidents may be re-elected to the same office for a second consecutive two-year term but are further ineligible for that office until the lapse of one year.
- A member shall be ineligible for a Vice President-level position after being elected for a total of any five vice-presidential terms, consecutive or otherwise.
- Members-at-Large may be re-elected as Members-at-Large for a second consecutive term but are further ineligible for that office until the lapse of one year.

### 3.2.4 Absence or Incapacity of:

- President – Duties shall be performed by the President-Elect (odd-numbered years)/Past President (even-numbered years) and then by the Vice

President-Technical and Educational Activities, Vice President-Publications, Vice President-Conferences, Vice President-Member and Global Activities, and Vice President-Industry and Standards Activities, in that order.

- President-Elect – The term shall be filled by the Past President, who shall continue in that capacity until a special election is held and a new President-Elect is chosen.
- Vice President – Individuals shall be identified from the appropriate candidate group slate, in the sequence of the number of votes received, and the individual receiving the most number of votes shall be automatically appointed to serve the remainder of the elected term.
- Member-at-Large – Individuals shall be identified from the same regional slate as the candidate being replaced, in the sequence of the number of votes received, and the individual receiving the most number of votes shall be automatically appointed to serve the remainder of the elected term. If none of these individuals can serve, the vacancy shall be filled by action of the BoG upon proposal by the President; a person filling a position in this manner shall serve for the remainder of the elected term.

3.2.5 Removal from Office. A Society Officer elected by the voting members of the Society may be removed from office, with or without cause, as follows:

- By a two-thirds majority vote of the BoG, or
- By a vote of the voting members of the Society within thirty days following the receipt by IEEE of a petition signed by at least 10% of the total number of voting members of the Society moving for the removal of such individual. A ballot on such motion shall be submitted to the voting members of the Society. If a majority of the ballots cast by the voting members for or against such motion are to remove such individual, the individual shall be removed from such positions.

3.2.6 Vacancies. If an elected position is vacated before the full term is completed, the position shall be filled as specified in Bylaw 3.2.4.

### 3.3 Appointed Officers

3.3.1 The Society appointed Officers shall be:

- Chief Information Officer (CIO) – Oversees cost-effective planning, acquisition, maintenance and use of

the Society's information systems and networking, databases and telecommunications services.

- Chief Marketing Officer (CMO) – Oversees the Society's marketing initiatives across multiple platforms and media driving ComSoc quality, engagement, and brand consistency.
- Directors – Each Director chairs a Board and serves in the Council to which the Board reports.
  - A Regional Director shall be appointed as specified in Clause 3.3.2 from a list containing at least two candidates from each region submitted by the respective Regional Board before December 15 of odd-numbered years. If the respective Board does not submit its list by this deadline, the President-Elect shall propose the appointment in consultation with the VP-MGA Elect, as specified in Clause 3.3.2.
- Parliamentarian – Advises the President on rules of order and proper procedures during BoG meetings. The President may, in case of conflict, request a ruling on procedures from the Parliamentarian.
- Standing and Ad Hoc Committee Chairs
- Treasurer – Is responsible for assuring sound financial practices, establishing prudent budgetary policies, overseeing preparation and presentation of the Society's budget and working with IEEE on financial matters.

3.3.2 The appointment of Treasurer, CIO, CMO, Parliamentarian, Directors, and Standing Committee Chairs shall be proposed for BoG approval by the President-Elect in consultation with the VP-Elect (if any) with whom the position is associated, except for those positions which are held ex-officio as specified in these Bylaws. Such appointment proposal shall be approved by the outgoing BoG at a meeting (regular or special) in an odd-numbered year.

3.3.3 The appointment of Chairs of Ad Hoc Committees rests with the President.

3.3.4 All Society appointed Officers shall serve for the nominal term of the President.

3.3.5 Removal from Office – An appointed Society Officer or Board/Committee member may be removed from office, with or without cause, by (i) a 2/3 majority vote of the appointing assembly or (ii) the individual(s) who hold(s) the office that made the appointment.

- 3.3.6 Vacancies – In the event that an appointed position is vacated before the full term is completed, the position shall be filled as defined in the governing documents of the Society.

## **ARTICLE 4 – ELECTED OFFICER RESPONSIBILITIES**

### **4.1 President, President-Elect, and Past President Responsibilities**

- 4.1.1 In the odd-numbered years, the President-Elect shall assist the President in discharging the responsibilities of that office. In the even-numbered years, the Past President shall assist the President in taking on the responsibilities of that office.
- 4.1.2 The President-Elect shall start the selection process for the Society appointed Officers specified in Clause 3.3.
- 4.1.3 The President shall appoint Officers as needed in consultation with the appropriate VP and with BoG approval, as specified by the Society governing documents.
- 4.1.4 The President shall inform the BoG of the roster of all Boards and Standing Committees as soon as they are finalized and before the first BoG meeting following the start of the President’s term.
- 4.1.5 The President is the highest-ranking volunteer officer of the Society. The President is responsible for leading the implementation of strategic actions and directions set by the ComSoc BoG. The President, or a President’s delegate, represents the Society in negotiations with Sister Societies and other similar organizations.
- 4.1.6 The President shall oversee and coordinate handling of ethics and conduct issues involving members, including author misconduct, at the Society level. The President shall be assisted by the Society Executive Director and by volunteers with experience in such matters, as needed.
- 4.1.7 The President shall keep the BoG informed of openings in IEEE leadership positions, solicit from the BoG recommendations for candidates which may also be conveyed directly to IEEE, and encourage ComSoc members to volunteer for such IEEE positions.

### **4.2 Vice Presidents – Responsibilities**

- 4.2.1 Vice Presidents are accountable for activities in their areas of responsibility. Each VP chairs a Council and represents that Council in the BoG.
- 4.2.2 Vice President – Technical and Educational Activities is responsible for all technical activities and educational services



within the Society. The following Boards and Standing Committees report to the Council chaired by this Vice President:

- Educational Services Board
- Technical Committees Board
- Awards Standing Committee
- Communications History Standing Committee
- Distinguished Lecturers' Selection Standing Committee
- Emerging Technologies Standing Committee
- Fellow Evaluation Standing Committee
- Technical Committees Recertification Standing Committee

4.2.3 Vice President – Publications is responsible for all activities of the Society related to print and electronic products, such as journals, magazines, and online offerings. The following Boards report to the Council chaired by this Vice President:

- Journals Board
- Magazines Board
- Online Content Board

4.2.4 Vice President – Conferences is responsible for all aspects of technical conferences, workshops, and professional meetings, including conference publications. The following Boards and Standing Committees report to the Council chaired by this Vice President:

- Conference Development Board
- Conference Operations Board
- GLOBECOM/ICC Management & Strategy Standing Committee
- GLOBECOM/ICC Technical Content Standing Committee

4.2.5 Vice President – Member and Global Activities is responsible for: i) all activities, services and programs associated with members and chapters, and oriented to membership retention, development, and marketing in the four regions; ii) all activities related to the organization and management of chapters; and iii) relations with other IEEE and professional societies worldwide.

The following Boards and Standing Committee report to the Council chaired by this Vice President:

- Member Services Board
- Sister & Related Societies Board
- Asia/Pacific Region Board
- Europe, Middle-East & Africa Region
- Latin America Region Board
- North America Region Board

- Women in Communications Engineering Standing Committee
- Young Professionals Standing Committee

4.2.6 Vice President – Industry and Standards Activities shall be responsible for overseeing all Society activities and programs related to all standards activities and industry services within the Society, including: (i) fostering technical activities related to relevant current standards development and industry services; (ii) identifying opportunities and fostering ComSoc’s engagement in new and/or existing standards development projects that are under development by different standards development organizations worldwide; (iii) increasing the visibility of ComSoc industry and standards initiatives within IEEE, the wider international standards community, and the broad international community of communications technologists; (iv) using ComSoc industry and standards activities to forge closer ties with ComSoc’s other departments and activities; (v) maintaining a close and informed relationship with the IEEE-SA; (vi) management within ComSoc, according to IEEE governing documents, ComSoc-sponsored IEEE Standards Association (IEEE-SA) projects, and (vii) fostering and implementing activities that are of interest to industry and government including practitioners, managers, executives, young professionals and other industry professionals. The Vice President – Industry and Standards Activities shall be the official ComSoc liaison to the IEEE Standards Association Board of Governors.

The following Boards report to the Council chaired by this Vice President:

- Standards Development Board
- Standardization Programs Development Board
- Industry Outreach Board
- Industry Communities Board

The Vice President – Industry and Standards Activities shall be an ex-officio voting member of the Standards Development Board, the Standardization Programs Development Board, the Industry Outreach Board, and the Industry Communities Board.

## **ARTICLE 5 – THE BOARD OF GOVERNORS**

### 5.1 Board of Governors (BoG)

#### 5.1.1 Officers on the BoG:

- Elected Officers (Voting):
  - President (BoG Chair)
  - President-Elect (odd-numbered years only)

- Immediate Past President (even-numbered years only)
  - Vice Presidents
  - Members-at-Large
  - IEEE Division III Delegate/Director
  - IEEE Division III Delegate/Director-Elect (odd-numbered years only)
  - Ex-Officio Officers (Non-voting):
    - Directors
    - Chief Information Officer
    - Chief Marketing Officer
    - Parliamentarian
    - Treasurer
    - Society Executive Director (BoG Secretary)
- 5.1.2 The BoG shall hold at least two regular in-person meetings annually.
- 5.1.3 Special BoG meetings may be held at the request of the President or any four members of the BoG. Notice of such special meetings, giving the meeting type (in-person or teleconference), attendance details (time and place or dial-in information), the purpose of the meeting, and the names of the BoG members calling the meeting, shall be sent to the BoG not less than 21 days (for in-person meetings) or 2 days (for teleconference meetings) before the date set for the start of the special meeting.
- 5.1.4 Each year, the President, Vice Presidents, and Society Executive Director shall submit the coming year’s Operating Plans to the BoG. Progress on these plans shall be reviewed throughout the year by the BoG.

## **ARTICLE 6 – THE OPERATING COMMITTEE**

### 6.1 Operating Committee (OpCom)

- 6.1.1 Between regular BoG meetings, OpCom conducts business on behalf of the BoG and is comprised of a subset of the BoG members. Actions from a duly called OpCom meeting shall be submitted to the BoG for ratification in a consent agenda or further consideration in its next meetings.
- 6.1.2 OpCom members are:
  - President
  - President-Elect (odd-numbered years), immediate Past President (even-numbered years)
  - Vice Presidents
  - Members-at-Large (three – one from each annually elected group and appointed by the President)

- IEEE Division III Delegate/Director
  - IEEE Division III Delegate/Director-Elect
  - Directors
  - Chief Information Officer
  - Treasurer
  - Parliamentarian
  - Society Executive Director
- 6.1.3 OpCom members with voting rights are those who are voting members of the BoG.
- 6.1.4 OpCom shall hold two regular annual meetings, in person or by other means.
- 6.1.5 Special OpCom meetings may be held at the request of the President or any four OpCom members. Notice of such special meetings, giving the meeting type (in-person or teleconference), attendance details (time and place or dial-in information), the purpose of the meeting, and the names of the OpCom members calling the meeting, shall be sent to OpCom not less than 21 days (for in-person meetings) or 2 days (for teleconference meetings) before the date set for the start of the special meeting.
- 6.1.6 All OpCom members are expected to attend OpCom meetings, except for the Directors. The President shall determine who among the Directors shall be invited to a particular OpCom meeting.

## **ARTICLE 7 – OPERATIONS IN SOCIETY ASSEMBLIES**

- 7.1 Operations in all Society assemblies (BoG/Councils/Boards/Committees)
- 7.1.1 A majority of the voting members of a Society assembly constitutes a quorum.
- 7.1.2 The vote of a majority of the members present at a meeting and entitled to vote at the time of voting, shall be the act of the Society assembly provided a quorum is present.
- 7.1.3 The Chair of an assembly shall have no vote except if the vote is by secret ballot or unless the Chair's vote can change the outcome of the vote.
- 7.1.4 A Society assembly may meet and act upon the vote of its members in person, by any means of telecommunications, or by a combination thereof. The normal voting requirements shall apply when action is taken whereby all persons participating in the meeting can hear each other and speak to each other at the same time.

- 7.1.5 For meetings with in-person and remote participants, remote participants who either cannot hear other participants or are not heard by other meeting participants do not meet the requirements for meeting attendance and, therefore, are not included in quorum calculations or allowed to vote.
- 7.1.6 Business may be conducted by means other than formally held meetings when the matter can be adequately handled via letter, electronic ballot, electronic mail interchange, etc., and procedures for transacting business in such a manner shall be specified in the Society Policies and Procedures (P&Ps). When transacting business without a meeting, a majority vote (simple or higher, depending on the motion type) of all assembly members eligible to vote is required for actions so taken. Approved motions shall be confirmed promptly in writing or by electronic transmission and recorded in the minutes of the next meeting.
- 7.1.7 Minutes of a BoG and OpCom meeting shall be distributed to the BoG within 30 days of the meeting. For executive sessions, only motions passed shall be included in the BoG and OpCom minutes. Executive session minutes shall be kept on file in the office of the Society Executive Director.
- 7.1.8 Members of BoG and OpCom shall receive notice of their regular meetings at least 21 days prior to the scheduled meeting start date.
- 7.1.9 If a quorum is not present at a duly called Society assembly meeting, the only business that can be transacted and concluded within the meeting is to take measures to obtain a quorum, fix the time to which to adjourn, to adjourn, or to take a recess. Any other business shall be limited to informal discussion upon which no action shall be taken.
- 7.1.10 Individuals holding more than one voting position on any Society assembly shall be limited to one vote on each matter being considered by the assembly.
- 7.1.11 Business transacted by Society assemblies at a meeting shall be conducted according to Robert's Rules of Order (latest revision) unless other rules and procedures are specified in the Not-for-Profit Corporation Law of the State of New York, the IEEE Certificate of Incorporation, and applicable IEEE governing documents.
- 7.1.12 Proxy voting is not allowed.
- 7.1.13 Society assemblies other than the BoG and OpCom (Councils, Boards, and any Committee) shall hold regular meetings with

sufficient frequency to transact Society business with reasonable dispatch.

- 7.1.14 Society assemblies other than the BoG and OpCom (Councils, Boards, and any Committee) may hold regular or special meetings at the request of the assembly Chair or of a number of voting members equal to the maximum between two voting members and 20% of the assembly voting members. Notice requirements for regular meetings shall be specified in the Society P&Ps. Notice for special meetings, giving the meeting type (in-person or teleconference), attendance details (time and place or dial-in information), the purpose of the meeting, and the names of the assembly members calling the meeting, shall be sent to the assembly not less than 21 days (for in-person meetings) or 2 days (for teleconference meetings) before the date set for the start of the special meeting.
- 7.1.15 A Management Retreat may be held annually at the discretion of the President.
- 7.1.16 Assembly members shall adhere to assembly decisions, unless such decisions violate IEEE or Society Constitutions, Bylaws or Policies.
- 7.1.17 The Ombudsman shall be the first point of contact for reporting a dispute or complaint related to Society activities and/or volunteers. The Ombudsman shall investigate, provide direction to the appropriate IEEE resources if necessary, and/or otherwise help settle these disputes at an appropriate level within the Society. The Nominations & Elections Committee shall nominate two candidates for the position of Ombudsman who are not currently on the BoG and have not been on the BoG for at least two years. The BoG shall then select one of the two candidates to serve for a two-year term beginning the second year of the President's term. The ombudsman shall report to the BoG.
- 7.1.18 Constitution, Bylaws, and P&Ps of the Society shall be in accordance with the IEEE Governing documents.
- 7.1.19 Proposed amendments to Society Governance documents should be reviewed by the Governance Committee prior to approval.

## **ARTICLE 8 – PROFESSIONAL STAFF**

### **8.1 Professional Staff**

- 8.1.1 Subject to compliance with all applicable IEEE Bylaws and Policies, the Society may create an Executive Office supported by IEEE staff. The Society's Executive Office functions to

coordinate and carry out the day-to-day operations, policies and procedures concerning all aspects of the Society's business. The Office also maintains corporate memory and provides ongoing and ad hoc management reports/documents. In addition, the Society's Executive Office serves as one of the Society's primary points of contact for both members and IEEE staff.

- 8.1.2 Subject to compliance with all applicable IEEE Bylaws and Policies, the Society may determine the budget for the Executive Office. The staff is hired by the IEEE and all conditions of employment shall be based upon IEEE Bylaws, staff policies and practices and all applicable laws and regulations. Office organization, job descriptions, IEEE staff policies and employment practices are available from the IEEE Human Resources Department.
- 8.1.3 The Society Executive Director is the most senior position on the IEEE staff that supports the Society, and as such, he/she manages and develops, personally and through subordinate management staff, the paid IEEE staff members that support the Society's operations and activities. The Society Executive Director supports the Society President, officers and volunteer leadership to achieve the Society goals. This Society Executive Director reports through the Managing Director, Technical Activities, to the IEEE Executive Director.
- 8.1.4 The Society Executive Director serves as BoG/OpCom secretary, assisted by staff members as needed.

## **ARTICLE 9 – COUNCILS**

- 9.1 Councils are chaired by Vice Presidents to address Technical and Educational Activities, Publications, Conferences, Member and Global Activities, and Industry and Standards Activities. Directors of Boards and Chairs of Standing Committees reporting to a Council serve on the Council and all are voting members together with the Council Chair. Vice Presidents should appoint a Council Vice Chair chosen among the Council voting members and may also appoint additional non-voting members as needed. Councils may approve voting rights for these additional members, with the approval of the BoG.
- 9.2 Council P&Ps are developed by the Council and approved by the BoG.
- 9.3 Councils may be established or dissolved by a two-thirds majority vote of the BoG. The scope, responsibilities, and P&Ps of a new Council shall be defined before incorporating it into the Bylaws.
- 9.4 The following Councils shall be formed:

- 9.4.1 Technical and Educational Activities Council (TEA-C) – This Council is responsible for the educational and technical interests of the Society, encompassing the broad range of communications and communications-related technical areas.
- 9.4.2 Publications Council (PUB-C) – This Council is responsible for the needs of the Society and Society Members related to print and electronic projects, such as journals, magazines, TC-edited Newsletters and similar publications, and online offerings, not including conference publications.
- 9.4.3 Conferences Council (CON-C) – This Council is responsible for the needs of the Society and Society Members related to technical conferences, workshops, and professional meetings. Additional voting members of the CON-C shall be the voting members of the Boards reporting to this Council.
- 9.4.4 Member and Global Activities Council (MGA-C) – This Council is responsible for all Society activities and programs related to members, chapters, membership development, sister and related societies, and Society regions.
- 9.4.5 Industry and Standards Activities Council (ISA-C) – This Council is responsible for the needs of the Society and Society members related to industry and standards. Additional (non-voting) members of the Council include the Chairs of any Standards Committee reporting to the Standards Development Board.

## **ARTICLE 10 – TECHNICAL COMMITTEES AND INDUSTRY COMMUNITIES**

### 10.1 Technical Committees (TCs)

- 10.1.1 Technical Committees are established to promote and achieve the technical objectives of the Society and report to the Technical Committees Board.
- 10.1.2 Technical Committees may be created, merged, modified, or dissolved by resolution of the BoG, as necessary to ensure the continued relevance and effectiveness of the Society TCs. Proposals to create/merge/modify/dissolve TCs may be made by the Technical Committees Board. In the case of proposals for creating new TCs, a petition to the Technical Committees Board by 25 Society members can also be made. Proposals shall include the name, scope, tentative program for the first year, and approximate numbers of interested and potential members. Proposals shall be forwarded to the BoG after having been evaluated by the Technical Committees Board and the TEA-C.
- 10.1.3 Technical Committees shall have P&Ps which shall include officer positions and election procedures and they shall



conform to the template specified in the Society P&Ps. P&Ps shall be developed by the Technical Committee and approved by the Technical Committees Board.

- 10.1.4 A change in the scope of a Technical Committee shall require approval of the TEA-C and the BoG.
- 10.1.5 The Chair of a new Technical Committee is appointed for two years by the Director - Technical Committees with the approval of the VP-TEA. During this period, a mentor is assigned to the Technical Committee by the Director of Technical Committees. Subsequently, the Chair shall be elected by the members of the Technical Committee.
- 10.1.6 Elections for Technical Committee Chairs are held every two years for a two-year term. A Chair cannot serve more than two consecutive terms of office.

## 10.2 Industry Communities

- 10.2.1 Industry Communities are established to cover substantial and diverse topical areas of current industry interests and report to the Industry Communities Board (ICB).
- 10.2.2 Industry Communities may be created, merged, or dissolved by the ICB, as specified in the ICB's P&Ps.
- 10.2.3 Industry Communities shall develop P&Ps which shall include scope and responsibilities, officer positions, and election procedures. Industry Communities P&Ps shall conform to the template specified in the Society P&Ps and shall be approved by the ICB.

## **ARTICLE 11 – BOARDS**

11.1 Boards are the operational and strategic entities of their respective Councils and are chaired by Directors. Boards shall report to Councils as specified below:

- Conferences Council (CON-C)
  - Conference Development Board
  - Conference Operations Board
- Member and Global Activities Council (MGA-C)
  - Member Services Board
  - Sister & Related Societies Board
  - AP Region Board
  - EMEA Region Board
  - LA Region Board
  - NA Region Board
- Publications Council (PUB-C)
  - Journals Board

- Magazines Board
- Online Content Board
- Industry and Standards Activities Council (ISA-C)
  - Industry Outreach Board
  - Standards Development Board
  - Standardization Programs Development Board
  - Industry Communities Board
- Technical and Educational Activities Council (TEA-C)
  - Educational Services Board
  - Technical Committees Board

11.2 Directors are responsible for appointing members to their Boards, with the approval of the appropriate Vice President.

Unless otherwise specified in the “Board Descriptions,” all Board members (ex-officio or not), including the Director, shall be voting members and shall serve two-year terms concurrent with the nominal duration of the presidential term.

In addition to the members specified in the “Board Descriptions” Clause, Directors may appoint additional non-voting members as needed. Boards may approve voting rights for these additional members, with the approval of the VP under which the Board is aligned. Directors should appoint a Board Vice Chair chosen among the Board voting members.

11.3 P&Ps for each Board shall be developed by the Board and approved by the Council to which the Board reports. In the case that the Council does not approve the P&Ps and a compromise cannot be found, the Board may request the BoG to resolve the matter and approve the P&Ps. An exception exists for the Standards Development Board P&Ps and those of the Standards Committees reporting to the Standards Development Board which shall be approved by the IEEE-SA Standards Board.

11.4 Boards may be established or dissolved by a two-thirds majority vote of the BoG. The scope, responsibilities, and P&Ps of a new Board shall be defined before incorporating it into the Bylaws.

11.5 The following Boards shall be formed:

11.5.1 Conference Development – This Board is responsible for the strategic planning, technical scope, and growth of all ComSoc financially-sponsored conferences (defined as portfolio conferences).

Members include representatives from the TEA-C and at least four Members-at-Large with at least one having served as the Technical Program Committee chair and at least one as the General Chair of a major conference.

- 11.5.2 Conference Operations – This Board is responsible for the oversight and management of the operational, publications, and financial aspects of all ComSoc conferences.

Members include the ComSoc Treasurer and at least five Members-at-Large with at least two having served as the General Chair and at least one as the Technical Program Chair of a major ComSoc conference.

- 11.5.3 Educational Services – This Board is responsible for the oversight of all Society education and training activities, including administration of the Society’s programs on continuing education, incorporating tutorials, short courses, lectures, etc. In particular, this Board is responsible for developing and maintaining continuing professional education and training programs, while striking a balance between generating revenue, supporting outreach efforts, and providing services to members.

Members include representatives from the Technical Committees, Conference Development, Conference Operations, Industry Outreach and Member Services Boards, and at least two Members-at-Large.

- 11.5.4 Industry Outreach – This Board is responsible for assuring a comprehensive and cost-effective outreach program of Society products and services to industry and governmental communities. It is also responsible for developing liaisons with communications and networking related enterprises to promote ComSoc products and services and to attract industry and government leaders into ComSoc’s volunteer community.

Members include a representative from each of the following assemblies: Industry Communities Board, Technical Committees Board, Educational Services Board, PUB-C, CON-C, Standardization Programs Development Board, and MGA-C. In addition, up to four Members-at-Large may be appointed by the Director to represent external industrial and governmental interests.

- 11.5.5 Journals – This Board is responsible for the oversight of Society journals. Board members are the Editors-in-Chief of Society journals for which ComSoc is the Managing Partner and/or has a majority financial stake, and two Members-at-Large, in addition to the Director. Additional members may be appointed, including Liaison Editors to other IEEE journals.

- 11.5.6 Magazines – This Board is responsible for the oversight of Society magazines. Board members consist of the Editors-in-Chief of Society magazines and two Members-at-Large, in

addition to the Director. Additional members may be appointed, including Liaison Editors to other IEEE magazines.

- 11.5.7 Member Services – This Board is responsible for the oversight of all services and programs addressed to members and chapters, and oriented to membership retention and development in the four regions. In particular, this Board is responsible for developing and providing individual-level membership services globally.

Members include the four Regional Directors plus one member per Region selected by the Director from a list of candidates, consisting of at least two names per region, submitted by each Regional Director.

- 11.5.8 Online Content – This Board is responsible for initiating, assessing, and overseeing Society online content. It supports Technical Committee activities; online services; as well as publications, conferences, and education products and services.

Members include representatives from the Conference Development, Conference Operations, Educational Services, Journals, and Magazines Boards; the TEA, MGA, and ISA Councils; the CIO; and up to three additional Members-at-Large.

- 11.5.9 Regional Boards – These Boards are responsible for stimulating, coordinating, and promoting the activities of ComSoc members and chapters throughout the IEEE regions. The four regions, each with its own Board, are:

- Asia/Pacific (AP)
- Europe, Middle-East & Africa (EMEA)
- Latin America (LA)
- North America (NA)

Each Board shall have a minimum of five members, in addition to the Director.

- 11.5.10 Sister & Related Societies – This Board is responsible for enhancing Society activities with our sister and related societies (SRS) by developing new programs with SRS and cooperating with SRS in offering Society/SRS products and services globally and strengthening the Society’s global and professional reach. This includes establishing and maintaining Society relationships on an international, regional, national, or local scale with SRS.

Where appropriate, enhancing Society SRS activities shall be accomplished through collaboration with IEEE sections/chapters, including Society and non-Society chapters.

Membership includes up to three representatives from the MGA-C, up to three members from selected Sister and Related Societies, and up to three Members-at-Large.

- 11.5.11 Standards Development – This Board is responsible for the promotion and advancement of communications standards.

It consists of eight members in addition to the Director. The Director shall select the members in accordance with the priorities listed in the next paragraph.

The Director shall give priority to serve on the Standards Development Board to: Standards Committee Chairs, ComSoc appointed Chairs or Co-Chairs for joint Standards Committees, Working Group Chairs who are directly sponsored by the Standards Development Board, ComSoc-appointed Working Group Chairs or Co-Chairs for jointly sponsored Working Groups and volunteers in ComSoc Technical Committees.

The Director shall be the official ComSoc liaison to the IEEE Standards Association Standards Board (SASB).

- 11.5.12 Standardization Programs Development – This Board is responsible for launching pre- and post-standardization technical activities, not restricted to those standards being developed by the IEEE. These would include, but not be limited to Research Groups that lead to the discovery of standardization opportunities and, for completed standards, creation of follow-up programs, such as compliance testing, standards education, workshops, conferences, and publications on technical issues that are relevant to standards.

The Board shall consist of up to eight members in addition to the Director. The Director of the Standardization Programs Development Board serves as the liaison to the IEEE-SA Industry Connections Program.

- 11.5.13 Technical Committees – This Board is responsible for the oversight and promotion of the technical communities of the Society and their activities including the promotion of technical content and development of educational content. In particular, this Board is responsible for developing and providing one-stop ICT (information and communications technology) services.

The Technical Committees Board shall also evaluate proposals to create, merge, modify, and dissolve TCs. Such proposals shall be forwarded by the Technical Committees Board to the TEA-C, with a recommendation. TEA-C shall make a recommendation to the BoG, who shall have final authority for approving the proposal.

Members include Technical Committee Chairs, Chair of the Emerging Technologies Committee, Chair of the Technical Committees Recertification Committee, and a representative of the Educational Services Board. The GITC Chair shall be a non-voting member of this Board.

- 11.5.14 Industry Communities - This Board is responsible for developing and promoting a strategic vision and oversight for organizing and promoting internal ComSoc communities that are attractive to members from industry, government, or other non-academic sectors. This includes processes to assure the quality and value of content in industry-oriented conferences, events, education, and publications. It is within the overall objective and mission of the Industry Communities Board to increase industry membership and participation in ComSoc activities.

Voting members of this Board are the Director and 4-to-6 Members at Large. The Director of this Board will give priority to the Chairs of Industry Communities to serve as voting members on the Industry Communities Board. Other Industry Community chairs shall be non-voting members of the Industry Communities Board.

## **ARTICLE 12 – STANDING COMMITTEES**

- 12.1 Standing Committees shall report to the BoG or a Council as specified below:

- Finance BoG
- Governance BoG
- Nominations& Elections BoG
- Operations & Facilities BoG
- Strategic Planning BoG
- Marketing Committee BoG
- Young Professionals MGA-C
- GLOBECOM/ICC Management & Strategy CON-C
- GLOBECOM/ICC Technical Content CON-C
- Women in Communications Engineering MGA-C
- Awards TEA-C
- Communications History TEA-C
- Distinguished Lecturers' Selection TEA-C
- Emerging Technologies TEA-C
- Fellow Evaluation TEA-C

- 12.2 Standing Committee Chairs shall be responsible for appointing Standing Committee members with the approval of the Society Officer chairing the BoG/Council to which the Standing Committee reports.

Unless otherwise specified in the “Standing Committee descriptions” Clause, all Standing Committee members (ex-officio or not), including the Chair, shall be voting members and shall serve a two-year term concurrent with the nominal duration of the presidential term.

In addition to the voting members specified in the “Standing Committee Descriptions” Clause, Standing Committee Chairs may appoint additional non-voting members as needed. Standing Committees may approve voting rights for these additional members, with the approval of the VP under which the Board is aligned. Standing Committee Chairs should appoint a Vice Chair chosen among the Standing Committee voting members. For Standing Committees reporting to the BoG, the Chair should also appoint a BoG-liaison to represent the Standing Committee on the BoG; the BoG-liaison should be chosen among the Standing Committee voting members who are also BoG members.

- 12.3 P&Ps of Standing Committees shall be developed by the Standing Committee and approved by the BoG/Council to which the Standing Committee reports. In the case that a Council does not approve the P&Ps of a Standing Committee and a compromise cannot be found, the Standing Committee may request the BoG to resolve the conflict and approve the P&Ps.

- 12.4 Standing Committees may be established and dissolved by a two-thirds majority vote of the BoG. The scope, responsibilities, and P&Ps shall be defined before incorporating the new Standing Committee into the Bylaws.

- 12.5 The following Standing Committees shall be formed:

12.5.1 Awards – This Committee is responsible for all major awards and recognitions made or proposed by the Society. It consists of not less than twelve (12) members who shall serve for a three-year term. One-third of the members are appointed each year. Committee members may not provide nominations or reference letters while in office, nor participate in deliberations on awards or recognitions for which they may be under consideration.

12.5.2 Communications History – This Committee is responsible for identifying, placing in electronic archives, and raising public awareness through all appropriate means of the most important facts, people, and achievements of communications history, as well as telecommunications milestones in general.

The Committee consists of three members who shall serve a three-year term, with one member appointed each year.

12.5.3 Distinguished Lecturers Selection – This Committee is responsible for establishing selection criteria and for the appointment of lecturers. The ex-officio Chair shall be the Vice Chair of the TEA-C. Members of this Committee shall be the VP-TEA, VP-MGA, the Director-Member Services, and the Chair of the Emerging Technologies Committee.

12.5.4 Emerging Technologies – This Committee is responsible for identifying, describing, and nurturing new technology directions, recommending new programs, and nurturing potential Technical Committees for formal proposal to the VP-TEA.

The Chair shall be chosen among the members of the Strategic Planning Committee with the recommendation of the VP-TEA-Elect, as specified in Clause 3.3.2. Standing Committee members shall include at least one more member from the Strategic Planning Committee. The Committee shall have six members appointed for three-year terms with one-third appointed each year. In addition, the Editor-in-Chief of *IEEE Communications Magazine* and the Editor-in-Chief of *IEEE Journal of Selected Areas in Communications* are ex-officio voting members of the Committee.

12.5.5 Fellow Evaluation – This Committee is responsible for the Society's evaluation of Fellow nominations being considered by the IEEE Fellow Committee. It consists of a Chair and nine members who shall serve three-year terms with one-third of the members being appointed each year. The Chair and committee members shall be IEEE Fellows and Members of the Society.

12.5.6 Finance – This Committee is responsible for facilitating the Society's budget process and for managing and providing direction in all aspects of Society financial matters. The Committee meets twice a year at ICC/GLOBECOM. The ex-officio Chair shall be the Society Treasurer. Committee members shall be: the President, Past President or President-Elect, Vice Presidents, CIO, and a representative from each Member-at-Large class. The Society Executive Director shall be an ex-officio non-voting member of the Committee.

12.5.7 GLOBECOM/ICC Management and Strategy (GIMS) – This Committee is responsible for the successful conduct, strategic evolution, and policies of the IEEE Global Communications Conference (GLOBECOM) and the IEEE International Conference on Communications (ICC). Members of the GIMS



Committee shall be the Chair, three or four Members-at-Large, three past members of an ICC or GLOBECOM Organizing Committee, and the GITC Committee Chair.

- 12.5.8 GLOBECOM/ICC Technical Content (GITC) – This Committee is responsible for providing strategic vision and management of the technical content of GLOBECOM and ICC to guarantee timeliness and the highest level of technical content quality.

The GITC Chair shall be appointed as in Clause 3.3.2, and in consultation with both the VP-CON-Elect and the VP-TEA-Elect. GITC members shall be appointed by the GITC Chair in consultation with the VP-CON and the VP-TEA. GITC members shall be: the Chair, two to four Members-at-Large, three past ICC or GLOBECOM Technical Program Chairs, and the GIMS Committee Chair. The Director of Technical Committees shall be an ex-officio non-voting GITC member. The GITC Vice-Chair shall be appointed from among the voting members by the GITC Chair in consultation with the VP-CON and the VP-TEA.

- 12.5.9 Governance – This Committee is responsible for all matters related to Society Governance, including but not limited to: reviewing any proposed amendment to Society governing documents (Constitution, Bylaws, P&Ps) prior to discussion in the BoG; crafting amendments to Society governing documents that result from actions of the BoG; establishing Society-wide Governance best practices and overseeing their application across all Councils, Boards, and Committees; upon request or when needed proposing changes to existing Society governing documents with the goal of keeping them current and consistent; and serving as an interpretive Committee on Governance issues.

Committee membership: Chair, the Society Parliamentarian, and up to three additional members appointed by the President upon recommendation of the Committee Chair and shall include one previous ComSoc President and one sitting BoG Member at Large. The Committee Chair may appoint up to three additional voting Committee members. The Chair and Committee members (except the Parliamentarian) shall serve three-year terms with one reappointment allowed.

Terms of all members (except the Parliamentarian) shall be staggered so that no more than half of the members' terms expire every two years; when necessary, such staggering shall be created by appointing members to terms shorter than three years, as indicated at the time of their appointment.

- 12.5.10 Nominations & Elections – This Committee is responsible for identifying candidates to fill elected Society office positions,

and for the development, implementation, and supervision of election procedures. The Nominating Committee for the IEEE Division III Director shall be a separate Committee and shall operate as specified in the TAB Operations Manual. Meetings of this Committee shall always be held in Executive Session.

The Committee shall consist of the following members:

- Committee Chair (ex-officio) – Shall be the most recent former Past President, who shall serve for a two-year term and shall take office as Chair immediately after the nominal term of Past President has ended (the beginning of an odd-numbered year). If the Past President is unable to serve, the President shall appoint a Chair for a similar period, with the approval of the BoG.
- Nine Members-at-Large – Each shall be a voting member appointed by the BoG, upon recommendation of the President and the N&E Chair, and approved by the BoG for a three-year term with one-third of the members appointed each year. At least one annual appointee shall not be a member of the BoG.
- IEEE Division III Delegate(s)/Director(s) (ex-officio) – Shall be a non-voting member.
- The Past President (ex-officio), only during even-numbered years.
- President-Elect (ex-officio) – Shall be a non-voting member whose term shall start immediately after being elected and officially announced.

The Chair shall not be eligible to be elected to the BoG during the Chair's term of service. A Committee member may be nominated for a position only if (i) the nomination is not made by a member of the Committee, and (ii) the member resigns from the Committee prior to its first meeting of the year in which the nomination shall be made.

Individual voting members eligible to vote in an election may nominate candidates by written petition, provided such nominations are made at least 28 days before the date of the election. The number of signatures required for a petition candidate to appear on a ComSoc ballot shall be equal to what is set in the IEEE Bylaws as follows: For all positions where the electorate is less than 30,000 voting members, signatures shall be required from 2% of the eligible voters. For all positions where the electorate is more than 30,000 voting members, 600 signatures of eligible voters plus 1% of the difference between the number of eligible voters and 30,000 shall be required.

- 12.5.11 Operations & Facilities – This Committee is responsible for supporting the President in making recommendations to the BoG on operations, facilities, and related capital expenses. The President is the ex-officio Chair. Members shall serve for the nominal duration of the President’s term and shall include:
- CIO
  - Treasurer
  - Four members appointed by the President from among volunteer BoG officers
  - One member appointed by the President from among volunteers who are not on the BoG

The Society Executive Director is an ex-officio non-voting member of this Committee. The Committee may approve the participation of invited experts as required by the agenda items.

- 12.5.12 Strategic Planning – This Committee is responsible for preparing a long-term strategic plan to guide the direction and future of the Society and for preparing short-term plans to direct specific areas, as appropriate.

Members of the Committee shall be the Chair, the Vice Presidents (or a representative named by the VP), and eight Members-at-Large all appointed by the President upon recommendation of the Committee Chair. The Members-at-Large will serve two-year staggered terms. Each year, at least one of the appointees shall be a Young Professional as defined by IEEE.

- 12.5.13 Technical Committees Recertification – This Committee recommends the establishment of new Technical Committees and reviews current Technical Committees to determine whether they are fulfilling their responsibilities.

The VP-TEA is the ex-officio Chair. Committee members shall include the TEA-C Vice Chair and six members appointed by the Chair for a three-year term. One-third of the members are appointed each year by the Chair from among Members-at-Large of the BoG. Committee members who are also officers of Technical Committees under review shall excuse themselves from deliberations related to their Technical Committee.

- 12.5.14 Women in Communications Engineering – This Committee is responsible for encouraging the participation and membership of women communications engineers in the Society. The Committee shall meet at least once a year at ICC or GLOBECOM, and shall provide an annual written report to the Society President, Vice Presidents, and Technical Committee Chairs prior to each ICC.

Committee membership is as follows: Chair, Vice-Chair, Publicity Chair, Secretary, IEEE Women in Engineering Committee (WIEC) Society Coordinator, Awards sub-committee Member-at-Large, and up to five Members-at-Large.

- 12.5.15 Marketing – This Committee oversees ComSoc’s marketing programs and is chaired by the Chief Marketing Officer. Responsibilities include adoption of emerging media technologies such as podcasts, infographics, slide-shares, boards, blogs, and videos; use of social platforms such as Facebook, Twitter, Tumblr, and Instagram; creation, communication, and implementation of a strategic roadmap for innovative digital media marketing; and 3<sup>rd</sup> party efforts that have been engaged outside of ComSoc. The Marketing Standing Committee works in collaboration with the Staff Marketing Director for strategizing, planning and implementing ComSoc marketing activities.

Committee membership is as follows: Staff Marketing Director, Chief Marketing Officer (Chair), Volunteer Director Industry Services, One VP selected from among ComSoc’s VPs, and 3 ComSoc members.

- 12.5.16 Young Professionals – This Committee is responsible for encouraging Young Professionals (as defined by IEEE) to become Communications Society members and to participate in its activities. It will do this through developing programs and initiatives attractive to Young Professionals, empowering them to make valuable contributions to the Society and entire IEEE organization, giving them a voice in Society direction, and by preparing them for future leadership roles. Membership of this Committee is the Chair, 5 Members-at-Large who are Young Professionals, and 1 Member-at-Large who is not a Young Professional.

## **ARTICLE 13 – AD HOC COMMITTEES**

- 13.1 Ad Hoc Committees may be established by the President in consultation with the BoG to address broad technical or operational issues within the Society or IEEE. The scope, responsibilities, and P&Ps of an Ad Hoc Committee shall be defined upon establishment. Ad Hoc Committees report to the BoG.
- 13.2 Ad Hoc Committee Chairs and members shall be appointed by the President. Upon establishment, the President shall report to the BoG the composition, mission, and expiration date of the Ad Hoc Committee.
- 13.3 OpCom shall review all Ad Hoc Committees annually and recommend to the BoG whether they should continue, disband, or be elevated to Standing Committees.

- 13.4 Ad Hoc Committees shall automatically expire at the conclusion of their duration or at the end of each President's term or by resolution of the President or the BoG, whichever comes first. The President may reestablish an expired Ad Hoc Committee in consultation with the BoG.

## **ARTICLE 14 – SOCIETY REPRESENTATIVES**

- 14.1 Society representatives to other IEEE Organizational Units or non-IEEE organizations are responsible for representing Society interests. They are appointed by the President for terms as required by the other organizations, in consultation with the appropriate Vice President.

## **ARTICLE 15 – BUDGET AND FINANCE**

- 15.1 Officers shall prepare budgets for the coming calendar year in the first half of each year to be approved by the BoG at its mid-year meeting. Actuals shall be reviewed throughout the year, and a forecast reported at each meeting.

- 15.2 Dues and fees are set by the BoG in accordance with IEEE and Society guidelines and are based upon proposals by the Treasurer to the BoG. Billing and receipt of annual dues are part of the IEEE dues billing process.

### **15.3 Budget**

- 15.3.1 Each year the Society produces a budget which shall be approved by the BoG.

- 15.3.2 The Treasurer is responsible for the development of the Society annual budget and submitting to IEEE Technical Activities for consolidation with other societies, and ultimately to the IEEE for their consolidated budget. The Treasurer monitors revenues and expenses, providing interim reports on budgets, forecast, actuals at each BoG and OpCom meeting. A complete financial report, including actual versus budget, net assets, and reserves is presented by the Treasurer annually.

### **15.4 Finance**

- 15.4.1 The Treasurer has oversight responsibility for all Society financial matters.

- 15.4.2 Funds shall be handled as designated by the Treasurer and shall be deposited with IEEE or with external financial institutions, as approved by the BoG and/or IEEE Board of Directors.

- 15.4.3 The Treasurer, or Society Executive Director, or their designee shall follow orderly procedures for disbursement of funds, providing sufficient checks and balances and appropriate record keeping. A budgeted expenditure requires no further approval beyond approval of the Treasurer.

- 15.4.4 The Treasurer shall periodically review the Society finances and recommend adjustments needed to insure financial stability of the Society.
- 15.4.5 The Treasurer shall cooperate with Society and IEEE officials to accomplish financial audits when requested. The results of these audits shall be presented to the BoG.

# IEEE COMMUNICATIONS SOCIETY

## OVERVIEW

The **IEEE Communications Society (ComSoc)** is a diverse group of industry professionals with a common interest in advancing all communications technologies. Individuals within this unique community interact across international and technological borders to:

- produce publications
- organize conferences
- foster educational programs
- promote local activities
- work on technical committees
- support industry standards

The foundation of the IEEE and its societies' structure was due in great part to the activity of members in the communications field. The American Institute of Electrical Engineers (AIEE), founded in 1884 to advance electrical power technologies, and the Institute of Radio Engineers (IRE), founded in 1912 to explore expanding radio and communications technology, merged in 1963 to form The Institute of Electrical and Electronics Engineers, Inc. (IEEE).

The Communications Society began with the formation of the IRE's Professional Group on Communications Systems (PCCS) in 1952.

In the past sixty years, ComSoc has increased its membership from 8,800 when it began operations as an independent Society of the IEEE to over 26,000 paid members today. The Society has become the premier international forum for the exchange of ideas on communications technologies and information networking including wireless technology, the Internet, and optical systems.

The volunteer members of the Society shape the course of ComSoc, its publications, technical activities and conferences while the Society's strength comes from the vision and dedication of its members and Staff.

**A Brief History of Communications**, originally published in 2002 to commemorate the Society's 50th anniversary, was revised and updated as a 2nd Edition in 2012. The content captures the major communications technology events of the 20th and 21st centuries, provides interviews of

leaders, and gives a brief overview of Society history. Digital or print copies of the 2nd Edition are available by sending a request to [society@comsoc.org](mailto:society@comsoc.org).

## Membership Demographics

### Where Members Live

Membership growth has been stronger outside of the USA (Regions 1-6) and Canada (Region 7). Europe/Middle East/Africa (Region 8), Latin America (Region 9), and the Asia/Pacific (Region 10) have all seen increasingly significant growth.

### Global Membership

38	USA	77	Chapters
4%	Canada	19	Chapters
22%	EMEA	51	Chapters
4%	Latin/America	25	Chapters
31%	Asia/Pacific	42	Chapters

### Where Members Work

With many members involved with private industry, ComSoc is well positioned to cover emerging product and service innovations, while its important membership segment in academia provides the theoretical foundations for future development.

42%	Private Industry
21%	Education
3%	Retired
34%	Unspecified

## Conferences

Every year, the IEEE Communications Society sponsors major conferences that attract hundreds of the best quality paper/presentation submissions and attendees. Held at convenient locations around the world, these meetings attract thousands of participants who have much to share beyond their strong desire to learn. Communications Society conferences and workshops provide ideal opportunities to be a part of the latest technological developments and to network with the leaders who are changing the world of communications.

## Publications

From magazines to journals to online access and digital editions, the IEEE Communications Society produces the world's most cited publications in communications technology and science. Some are free with membership and all publications are available online. Visit the ComSoc web site and Digital Library at [www.comsoc.org](http://www.comsoc.org) for submission instructions, subscription information, and more details.



## Citations

IEEE Communication Society publications earned some of the highest ratings among telecommunications journals and magazines in a recent ISI® “Journal Citation Report” ComSoc publications occupied 8 of the top 10 places for impact factor:

1. *IEEE Communications Surveys & Tutorials*
2. *IEEE Wireless Communications Magazine*
3. *IEEE Communications Magazine*
4. *IEEE Journal on Selected Areas in Communications*
5. *IEEE Network Magazine*
6. *IEEE/ACM Journal of Lightwave Technology*
7. *IEEE Transactions on Wireless Communications*
8. *IEEE Transactions on Mobile Computing*

Impact factor measures how often the “average article” in a journal has been cited. It is calculated by dividing the number of current year citations by the source items published in that journal during the previous two years.

***IEEE Communications Magazine:*** Considered by many members to be our most important member benefit, it provides the latest information on all communications technologies, such as Lightwave Systems, Broadband Communications, Multimedia Services, and Wireless Networks. With monthly digital delivery service, issues are delivered to readers as soon as they are published.

In addition to its in-depth technical articles, the magazine also offers other important content, including:

***The Global Communications Newsletter:*** A monthly feature containing articles about worldwide events related to communications and Society activities.

***Optical Communications:*** A series dedicated to fiber optics technology.

***Radio Communications:*** A series presenting in-depth, cutting-edge tutorials, emphasizing state of the art design solutions, involving physical and other lower layer issues in radio communications.

***Green Communications & Computing Networks:*** A semi-annual series that is a premier forum across academia & industry to address all important issues relevant to green communications.

***Network Testing & Analytics:*** A series that covers the testing of network design & implementation, and analytics solutions that can help improve infrastructure & operations.

***Ad Hoc and Sensor Networks:*** A periodic Series that explores in depth the concept of ad hoc and sensor networking, highlighting the recent research achievements in the field.

**Automotive Networking:** This series, published twice a year, covers the growing importance in vehicle-to-vehicle (V2V) and vehicle-to-infrastructure (V2I) communications.

**Consumer Communications and Networking:** This series covers emerging technologies in the areas of home entertainment, high-quality visual communication, massive multi-player gaming, and personal, body-area and sensor networking.

**Design and Implementation:** This series publishes articles that provide practical knowledge for creating products and services while retaining the academically rigorous style and structure typical of Communications Magazine articles.

**Network and Service Management:** This series publishes articles on the latest developments in this well-established and thriving discipline, highlighting recent research achievements.

**IEEE Network:** The Magazine of Global Internetworking has technical co-sponsorship support from the IEEE Computer Society and Internet Society: this bimonthly magazine covers all aspects of computer communications.

**IEEE Wireless Communications:** A bimonthly magazine which covers technical and policy issues relating to personal, location-independent communications in all media and at all protocol layers.

**IEEE Communications Standards Magazine:** Intended to be a platform for presenting and discussing a broad variety of standards-related topics in the area of communications.

**IEEE Transactions on Communications:** Is regarded as “the source” for breakthrough communications theories and practical applications. Each month, this world renowned, scholarly journal covers all aspects of communications from telephony to communication theory.

**IEEE Journal on Selected Areas in Communications:** Is designed for leading edge communications researchers. Each of this scholarly journal’s issues focuses in-depth attention on critical aspects of one specific communications topic, from electromagnetic propagation to multimedia communications, from components to systems.

**IEEE Communications Surveys & Tutorials:** An all-electronic publication, offers a continuously available source of peer-reviewed, comprehensive, leading-edge surveys covering all active areas of communications. All ComSoc members and IEEE members have free access to this online publication.

**IEEE/ACM Transactions on Networking:** A bimonthly archival journal, reflects the multi-disciplinary nature of communications networks and is sponsored by the IEEE Communications Society, the IEEE Computer Society, and the Association for Computing Machinery (ACM).

**IEEE Transactions on Wireless Communications:** Co-sponsored by the IEEE Signal Processing Society, this journal focuses on high-quality, peer-reviewed,

original papers that advance the state-of-the-art and applications of wireless communications including theoretical contributions such as new techniques, concepts and analyses, and practical contributions such as system experiments and prototypes, and new applications monthly.

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***IEEE Transactions on Mobile Computing***: A bi-monthly journal co-sponsored with the Computer Society, publishes archival research results related to mobility of users, systems, data, and computing as well as issues in information organization and access, services, management, and applications.

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***IEEE/OSA Journal of Lightwave Technology***: Is the premier source of current information on all aspects of optical guided-wave science, technology and engineering. This monthly journal publishes peer-reviewed original contributions, and special issues, and invites tutorial and review papers from world experts. All ComSoc members have full online access to JLT.

***IEEE/OSA Journal of Optical Communications and Networking***: Publishes both theoretical and practical contributions that advance the state-of-the-art in optical communications and networking research.

***Green Communications & Computing Networks***: A semi-annual series that is a premier forum across academia & industry to address all important issues relevant to green communications.

**Network Testing & Analytics:** A series that covers the testing of network design & implementation, and analytics solutions that can help improve infrastructure & operations.

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IEEE Communications Society cooperates with technical co-sponsorship with several IEEE publications, including the following:

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*China Communications*  
*IEEE/KICS Journal of Communications & Networks*  
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*IEEE Internet of Things Journal*

**Publications Contents Digest:** Offers linked Tables of Contents of all Communications Society periodicals. Monthly online delivery to ComSoc members.

**IEEE ComSoc Technology News (CTN):** Is an online publication, periodically provides summaries of interesting, timely, newsworthy papers and articles from ComSoc and IEEE publications.

**Best Readings:** Offers a collection of books, articles, and papers on a featured topic.

**IEEE Wireless Communications Professional:** A bi-monthly newsletter, a free service for those interested in wireless industry issues and IEEE Wireless Communication Engineering Technologies (WCET) Certification.

*IEEE Communications Society publications* are available online. See the publications area or the ComSoc Digital Library on the ComSoc web site at [www.comsoc.org](http://www.comsoc.org) or the IEEE web site at [www.ieee.org](http://www.ieee.org).

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The **ComSoc Digital Library, powered by IEEE Xplore**, provides online access to 13 IEEE Communications Society periodicals and over 35 ComSoc sponsored or co-sponsored conference proceedings. As a member of the Communications Society or IEEE, you can choose between ComSocDL (access to current content

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For more information, please visit our website at: <http://www.comsoc.org/dl>

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For IEEE WCET in Japan, please contact the MCPC (Mobile Computing Promotion Consortium): [www.mcpc-jp.org](http://www.mcpc-jp.org)

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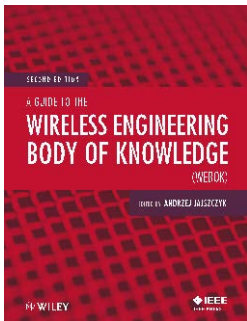


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For recent webinars and more information, please visit [www.comsoc.org/webinars](http://www.comsoc.org/webinars).

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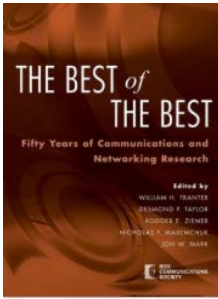
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