

IEEE COMSOC DIRECTORY 2021



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**IEEE
ComSoc**[®]
IEEE Communications Society





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Xuemin



Sergio



Roberto



Fambirai



Zhi



Harold



Stefano



Stefano



Nei



Robert



Michele



Ekram



Ana



Nelson



Lawrence



Nirwan



Andrea



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Sumei



Christos



Nury



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Edward



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Octavia



Philippa



Petar



Chengshan



Koichi



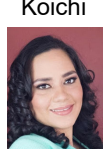
Ana



Ashutosh



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Nury



Sumei



Zhensheng



Michele

Board of Governors

Vincent W.S. Chan – President
Xuemin (Sherman) Shen – President-Elect
Sergio Benedetto – IEEE Division III Director
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Vice Presidents

Stefano Bregni – Conferences
Nei Kato – Member and Global Activities
Robert Schober – Publications
Stefano Galli – Technical and Educational Activities

Directors

Michele Zorzi – Journals
Ekram Hossain – Magazines
Ana Garcia Armada – Online Content
Nelson Fonseca – Conference Development
Lawrence Wong – Conference Operations
Nirwan Ansari – Educational Services
TBA – Technical Committees
Andrea M. Tonello – Industry Outreach
Ricardo Veiga – Member Services
Sumei Sun – Asia/Pacific Region
Christos Verikoukis – EMEA Region
Nury Gabriela Ramirez Cely – Latin American Region
Fawzi Behmann – North American Region
Edward G. Tiedemann, Jr – Standards Development & Standardization Programs Development
Tarek S. El-Bawab – Industry Communities

Members At Large

2019-2021

Octavia Dobre
Philippa Martin
Petar Popovski
Chengshan Xiao

2020-2022

Koichi Asatani
Ana Garcia Armada
Ashutosh Dutta
Robert Heath

2021-2023

Nury Gabriela Ramirez Cely
Sumei Sun
Zhensheng Zhang
Michele Zorzi

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When additional information is provided, it will be updated on at www.comsoc.org

IEEE COMMUNICATIONS SOCIETY

ORGANIZATION

BOARD OF GOVERNORS

ELECTED OFFICERS 2020-2021 (Voting)

President | Vincent W.S. Chan *

President-Elect | Xuemin (Sherman) Shen *

Vice President - Conferences | Stefano Bregni *

Vice President - Member & Global Activities | Nei Kato *

Vice President - Publications | Robert Schober *

Vice President - Technical & Educational Activities (Jan 2020 - April 2021) | Xuemin (Sherman) Shen *

Vice President - Technical & Educational Activities (April - Dec 2021) | Stefano Galli *

APPOINTED OFFICERS 2020-2021 (Non-Voting)

Treasurer | Fambirai Takawira *

Parliamentarian | Roberto de Marca *

Chief Information Officer (CIO) & Chief Marketing Officer (CMO) | Zhi Ding

Director - Journals | Michele Zorzi

Director - Magazines | Ekram Hossain

Director - Online Content | Ana Garcia Armada

Director - Conference Development | Nelson Fonseca

Director - Conference Operations | Lawrence Wong

Director - Educational Services | Nirwan Ansari

Director - Technical Committees | TBA

Director - Industry Outreach | Andrea M. Tonello

Director - Membership Services | Ricardo Veiga

Director - Asia/Pacific Region | Sumei Sun

Director - Europe, Middle-East & Africa Region | Christos Verikoukis

Director - Latin America Region | Nury Gabriela Ramirez Cely

Director - North America Region | Fawzi Behmann

Director - Standards Development & Standardization Programs Development | Edward G. Tiedemann, Jr

Director - Industry Communities | Tarek S. El-Bawab

Executive Director | Harold Tepper *

Recording Secretary | Carol Cronin

MEMBERS-AT-LARGE (Elected-Voting)*

2019-2021

Octavia Dobre
Philippa Martin
Petar Popovski
Chengshan Xiao*

2020-2022

Koichi Asatani
Ashutosh Dutta
Ana Garcia Armada*
Robert Heath

2021-2023

Nury Gabriela Ramirez Cely
Sumei Sun*
Zhensheng Zhang
Michele Zorzi

IEEE DIVISION III (Elected-Voting)

Director | Sergio Benedetto*

Director Elect | Khaled B. Letaief

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

TECHNICAL & EDUCATIONAL ACTIVITIES

TECHNICAL & EDUCATIONAL ACTIVITIES COUNCIL

Chair / Vice President | Stefano Galli

Voting Members

Director - Educational Services | Nirwan Ansari

Director - Technical Committees | TBD

Director - Industry Communities | Tarek El-Bawab

Director - Standards Development | Ed Tiedemann

Director - Standardization Programs Development | Nada Golmie

Chair - Communications History | Martha Steenstrup

Chair - Distinguished Lecturers Selection | Wanjiun Liao

Chair - Emerging Technologies | Wendi Heinzelman

Chair - Technical Committee/Industry Community Recertification | Sherman Shen
(ex-officio)

Staff | Cynthia Sikora

COMMUNICATIONS HISTORY STANDING COMMITTEE

Chair | Martha Steenstrup

Voting Members

2019-2021 | Kit August | Zafar Taqvi

Staff | Cynthia Sikora

DISTINGUISHED LECTURERS' SELECTION STANDING COMMITTEE

Chair | Wanjiun Liao

Voting Members

Vice President – Technical & Educational Activities | Stefano Galli

Vice President – Member & Global Activities | Nei Kato

Director – Member Services | Ricardo Veiga

Chair – Emerging Technologies | Wendi Heinzelman

Staff | Cynthia Sikora

EMERGING TECHNOLOGIES STANDING COMMITTEE

Chair | Wendi Heinzelman

Voting Members

EIC, *IEEE Communications Magazine* | Tarek El-Bawab

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

Representative, Strategic Planning Committee | Michele Zorzi

2021-2023 George Rouskas | Carla Fabiana Chiasserini

2020-2022 | Damla Turgut | Halim Yanikomeroglu

2019-2021 | Marco di Renzo | Meryem Simsek

Staff | Cynthia Sikora

TECHNICAL COMMITTEE/INDUSTRY COMMUNITY RECERTIFICATION STANDING COMMITTEE

Chair (VP-TEA, ex officio) | Stefano Galli

Voting Members

TAC Vice Chair | Wanjiun Liao

2021-2023 | Sumei Sun | Nury Gabriela Ramirez Cely

2020-2022 | Ana Garcia Armada | Koichi Asatani

2019-2021 | Petar Popovski | Chengshan Xiao

Staff | Cynthia Sikora

EDUCATIONAL SERVICES BOARD

Chair/Director | Nirwan Ansari

Voting Members

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Ricardo Veiga
Nelson Fonseca
Carlos Lozano Garzon
Stefano Giordano
Nury Gabriela Ramirez Cely
Venkatesha Prasad
Yuanqiu Luo
Swades De

Non-voting Members

Fabrizio Granelli
Periklis Chatzimisios

Staff | Tara McNally

INDUSTRY COMMUNITIES BOARD

Chair/Director | Tarek El-Bawab

Voting Members

Prosper Chemouil
Antonio Javier Sanchez
JaeSeung Song
Rath Vannithamby
Yang Yang
Doug Zuckerman
Stefano Galli (ex-officio, VP-TEA)

Staff | Cynthia Sikora

STANDARDS DEVELOPMENT BOARD

Chair/Director | Ed Tiedemann

Voting Members

John Bareham
Jaafar Elmirghani
Jean-Philippe Faure
Rob Fish
Alex Gelman
Oliver Holland
Mehmet Ulema

Staff | Karen Pannullo

STANDARDIZATION PROGRAMS DEVELOPMENT BOARD

Chair/Director | Nada Golmie

Voting Members

Periklis Chatzimisios
Carlos Cordeiro
Jim Lansford
Kevin Lu
Ed Tiedemann
Charlie Zhang
Stefano Galli (ex-officio, VP-TEA)

Non-Voting Members

Alex Gelman
Timothy O'Shea

Staff | Karen Pannullo

TECHNICAL COMMITTEES BOARD

Chair/Director | Stefano Galli

Voting Members

Technical Committee Chairs

Big Data | Jie Li

Cognitive Networks | Lingyang Song

Communication Theory | Jeff Andrews

Communications & Information Security | Francesco Chiti

Communications Quality and Reliability | Tetsuya Yokotani

Communications Software | Abdelatif Kobbane

Communications Switching & Routing | Jian Tang

Communications Systems Integration & Modeling | Nizar Zorbai

Computer Communications | Ying-Dar Lin

Data Storage | Shayan Srinivasa Garani

e-Health | Honggang Wang

Green Communications & Computing | Yan Zhang

Information Infrastructure & Networking | Periklis Chatzimisios

Internet | Michele Nogueira

IoT, Ad Hoc & Sensor Networks | Soumaya Cherkaoui

Molecular, Biological and Multi-Scale Communications | Andrew Eckford

Multimedia Communications | Jun Wu

Network Operations & Management | Noura Limam

Optical Networking | Luca Valcarenghi

Power Line Communications | Gerd Bumiller

Radio Communications | Jemin Lee

Satellite & Space Communications | Song Guo

Signal Processing for Communications & Computing | Xianbin Wang

Smart Grid Communications | Andrea Tonello

Social Networks | Neeli Prasad

Tactile Internet | Meryem Simsek

Transmission, Access, & Optical Systems | Steve Hranilovic

Wireless Communications | Bechir Hamdaoui

Chair – Emerging Technologies | Wendi Heinzelman

Chair – Technical Committees Recertification | Sherman Shen

Representative – Educational Services Board | Nirwan Ansari

Non-Voting Member

GITC Chair | Matthew Valenti

Staff | Cynthia Sikora

TECHNICAL COMMITTEES

Technical Committees are established to promote and achieve the technical objectives of the Society. Standing and Ad Hoc Committees are established and dissolved through resolutions approved by the BoG.

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

Cognitive Networks (TCCN)

Chair | Lingyang Song

Vice Chair Asia Pacific | Lin Gao

Vice Chair Americas | Shiwen Mao

Vice Chair Europe/Africa | R. Venkatesha Prasad

Secretary | Yuan Ma

Standards Liaison | R. Venkatesha Prasad

Publicity Board | Vijay Rao, Hongliang Zhang

Student Competition Program | Kaoru Ota, Boya Di

Communication Theory (CTTC)

Chair | Jeff Andrews

Vice-Chair | Petar Popovski

Secretary | Y.-W. Peter Hong

Communications & Information Security (CIS)

Chair | Francesco Chiti

Vice Chair - Conferences | Rongxing Lu

Vice Chair - Publications | Bin Xiao

Secretary | Bin Xiao

Standards Liaison | Neeli Prasad

Student Competition Program | Dongming Peng

Communications Quality and Reliability (CQR)

Chair | Tetsuya Yokotani
Chair-Elect | Chris Mayer
Vice Chair - Operations | Kohei Shiimoto
Vice Chair - Program Development | Jason Boswell
Vice Chair - Social Media | Aman Singh
Secretary | Chikara Ohta
Treasurer | Kevin J. Krantz
Chair - Advisory Board | Scott Poretsky
Standards Liaison | Tetsuya Yokotani
Student Competition Program | Kohei Shiimoto

Communications Software (CommSoft)

Chair | Abdelatif Kobbane
Vice Chair | Abdelhamid Taha
Secretary | Hassine Mouncla
Standards Liaison | Taha Abdelhamid
Student Competition Program | Abdellatif Kobbane

Communications Switching & Routing (CSR)

Chair | Jian Tang
Vice-Chair | Lotfi Mhamdi
Secretary | Cheng Li
TC CSR Award and Sponsorship Events Chair | Jun Zheng
HPSR Chair | Abbas Jamalipour
Comsoc Student Competition Officer | Roberto Rojas-Cessa
Standardization Committee Liaison Officer | Nirmala Shenoy
Newsletter Officer | Cheng Li
SIG Officer | Scott Fowler

Communications Systems Integration & Modeling (CSIM)

Chair | Nizar Zorba
Vice Chair | Angelos Antonopoulos
Secretary | Luca Foschini
Standards Liaisons | John Vardakas | Stefano Giordano
Student Competition Program | Jonathan Rodriguez

Computer Communications (TCCC)

Chair | Ying-Dar Lin
Vice Chair | Tilman Wolf
Secretary | Danai Chasaki
Standards Liaison | TBD
Student Competition Program | Bryan Ng

Data Storage (TCDS)

Chair | Xinmiao Zhang
Vice Chair (Academia) | Jeongseok Ha
Vice Chair (Industry) | Hironori Uchikawa
Secretary | Seyhan Karakulak
Treasurer | Suayb Arslan
Standards Liaison | Hironori Uchikawa
Student Competition Program | Suayb S. Arslan

e-Health

Chair | Honggang Wang
Vice Chair | Andrea Sciarrone
Secretary | Christos Verikoukis
Standards Liaison | Zaher Dawy
Student Competition Program | Nada Philip

Green Communications & Computing

Chair | Yan Zhang
Vice Chair - Americas | Feng Ye
Vice Chair - Asia/Pacific | Haijun Zhang
Vice Chair - Europe/Africa | Shahid Mumtaz
Secretary | Kai Yang
Student Competition Program | Kai Yang

Information Infrastructure & Networking (IIN)

Chair | Periklis Chatzimisios
Vice Chair | Nadjib Aitsaadi
Secretary | Selma Boumerdassi
Student Competition Program | TBA

Internet (ITC)

Chair | Michele Nogueira
Vice Chair | Paolo Bellavista
Secretary | Ruidong Li
Standards Liaison | Simone Ferlin
Student Competition Program | Ruidong Li

Internet of Things, Ad Hoc & Sensor Networks

Chair | Soumaya Cherkaoui
Vice Chair | Jiajia Liu
Secretary | Sharief Oteafy
Standards Liaison | Rodolfo W. L. Coutinho
Student Competition Program | Jalel Ben Othman

Molecular, Biological and Multi-Scale Communications

Chair | Andrew Eckford

Vice-Chair | Lin Lin

Secretary | Adam Noel

Multimedia Communications (MMC)

Chair | Jun Wu

Steering Committee Chair | Joel J. P. C. Rodrigues

Vice Chair (America) | Shaoen Wu

Vice Chair (Asia) | Liang Zhou

Vice Chair (Europe) | Abderrahim Benslimane

Vice Chair (Letters & Member Communications) | Qing Yang

Secretary | Han Hu

Standard Liaison | Weiyi Zhang

Student Competition Program | Andrea Sciarrone

Network Operations & Management (CNOM)

Chair | Noura Limam

Vice Chair | Marinos Charalambides

Technical Program Chair | Carol Fung

Secretary | Carlos Raniery Paula dos Santos

Standards Liaison | Marcus Brunner

Student Competition Program | Abdelkader Lahmadi

Optical Networking (ONTC)

Chair | Luca Valcarenghi

Vice Chair | Zuqing Zhu

Secretary | Elaine Wong

Standards Liaison | TBD

Student Competition Program | Paolo Monti

Power Line Communications (PLC)

Chair | Gerd Bumiller

Vice Chair | Bamidele Adebisi

Secretary | José A. Cortés

Standards Liaison | Markus Rindchen

Student Competition Program | José A. Cortés

Radio Communications (RCC)

Chair | Jemin Lee
Vice Chair | Julian Cheng
Secretary | Enrico Paolini
Standards Liaison | George Chrisikos
Student Competition Program | Julian Cheng

Satellite & Space Communications (SSC)

Chair | Song Guo
Vice Chair | Pascal Lorenz
Secretary | Mianxiong Dong
Standards Liaison | Henry Suthon
Student Competition Program | Daniele Tarchi

Signal Processing and Computing for Communications

Chair | Xianbin Wang
Vice Chair | Jingxian Wu
Secretary | Ana Garcia Armada
Newsletter Editor | Xiangwei Zhou
SIG Coordinator | Fang Fang
Standards Liaison | Richie Leo
Student Competition Program | Rui Dinis

Smart Grid Communications

Chair | Andrea Tonello
Vice Chair | Chris Develder
Vice Chair | Marco Levorato
Vice Chair | Christian Wietfeld
Secretary | Fang Yang

Social Networks

Chair | Neeli Prasad
Vice Chair | Damla Turgut
Secretary | De-Nian Yang
Student Competition Program | Damla Turgut

Tactile Internet

Chair | Meryem Simsek
Vice Chair | Falko Dressler
Secretary | Oliver Holland
Student Competition Program | Moayad Aloqaily

Transmission, Access, & Optical Systems (TAOS)

Chair | Steve Hranilovic

Vice Chair | Walter Cerroni

Secretary | Mauro Biagi

Standards Liaison | Frank J. Effenberger

Student Competition Program | Fabrizio Granelli

Wireless Communications (TCWC)

Chair | Bechir Hamdaoui

Vice Chair | Yue Gao

Secretary | Jie Xu

Standards Liaison | Xingjian Zhang

Student Competition Program | Jie Xu

EMERGING TECHNICAL INITIATIVES

Aerial Communications

Chair | Fabrizio Granelli

Vice-Chairs | Toktam Mahmoodi, Kamesh Namuduri

Workshops and Symposia Officers | Rui Zhang, Sahil Garg,

Special Issues and Publications Officers | Yong Zeng, Sophie Pollin

Industry Liaison Officer | Xingqin Lin

Liaison with Vehicular Technology Society Officer | Vuk Marojevic

Research Blog Officer | Qingqing Wu

Backhaul/Fronthaul Networking & Communications

Chair | Muhammad Zeeshan Shakir

Vice Chair - UK & IR | Muhammad Ali Imran

Vice Chair - Canada | Ekram Hossain

Vice Chair - Middle East | Mohamed-Slim Alouini

Vice Chair - North America | Amitava Ghosh

Vice Chair - Europe | Xavier Costa

Vice Chair - Far East | Kei Sakaguchi

Standardization Chair | Ali Sadri

Secretary | Syed Ali Raza Zaidi

Student Competition Program | Muhammad Zeeshan Shakir

Full-Duplex and Self-Interference Cancellation

Chair | Gabor Fodor

Vice Chairs | Chan-Byoung Chae, Risto Wichman, Taneli Riihonen, Melissa Duarte,
Ashutosh Sabharwal

Standardization Chair and Industry Liaison | Raghu M. Rao

Secretary | José Mairton Barros da Silva Júnior

Integrated Sensing and Communication

Academic Chair | Fan Liu

Industrial Chair | Tony Xiao Han

Vice Chair for US Region | Athina Petropulu, Rutgers University, USA

Vice Chair for UK & Ireland Region | Christos Masouros

Vice Chair for Asia-Pacific Region | Jie Xu

Vice Chair for EU Region | Taneli Riihonen

Vice Chairs for Industry | Jianmin Lu, Carlos Cordeiro

Secretary | Yuanhao Cui

TC Liaison | Sumei Sun

ETC Liaison | Marco Di Renzo

Machine Learning for Communications

Chair | Carlo Fischione

Vice Chairs | Tim O'Shea, Elisabeth de Carvalho, Marwa Chafii, Erol-Kantarci Melike

Industry Liaison Officers | Hugo Tullberg, Yan Xin

Datasets & Competitions Officers | Maximilian Arnold, Shahid Adnan

Workshops, Tutorials, & Symposia Officers | Slawomir Stanczak,

Alexandropoulos George, Sudip Misra

Research Blog Officer | Fayçal Ait Aoudia, Carolina Fortuna

Network Intelligence

Chair | Imen Grida Yahia

Vice Chair | Mohamed Faten Zhani

Technical Program Chair | Noura Limam

Standards Liaison | Laurent Ciavaglia

Secretary | Weverton Cordeiro

Quantum Communications & Information Technology

Chair | Lajos Hanzo

Vice Chair | Peter Muller

Secretary | Andrea Conti

Media | Michael Ng

Reconfigurable Intelligent Surfaces

Industrial Chair | Vincenzo Sciancalepore

Academic Chair | Ertugrul Basar

Vice-Chairs | Alessio Zappone, Chau Yuen

Secretary | Alexis Aravanis

Workshops and Symposia Officers | Kezhi Wang, Cunhua Pan, Miaowen Wen,
Qingqing Wu

Special Issues and Publications Officers | Yansha Deng, Octavia Dobre, Huseyin Arslan

Tutorials and Invited Presentations Officers | Rui Zhang, Yuanwei Liu,

Tommaso Melodia

Standardization Officer | Richie Leo

Testbeds, Devices and Proof-of-Concepts Officers | Jin Shi, Linglong Dai,

Dinesh Bharadia

Industry Liaison Officers | Merouane Debbah, Dinh-Thuy Phan-Huy, Yifei Yuan

Electromagnetics and Metamaterials Liaison Officers | Andrea Alu, Sergei Tretyakov,

Geoffroy Lerosey, Vittorio Degli Esposti

Online Content Officers | George Alexandropoulos, Ana Garcia Armada

TC Liaison | Stefano Galli

ETC Liaison | Marco Di Renzo

CONFERENCES

CONFERENCES COUNCIL

Chair/Vice President | Stefano Bregni

Vice Chair/Director - Conference Operations | Lawrence Wong

Voting Members (2020-2021)

Director - Conference Development | Nelson Fonseca

Chair - GLOBECOM/ICC Management & Strategy (GIMS) | Rolland Vida

Chair - GLOBECOM/ICC Technical Content (GITC) | Matt Valenti

Ali Ghrayeb (WCNC)

Larry Guoliang Xue (INFOCOM)

Doug Zuckerman

Hikmet Sari

Luis Correia

Zhisheng Niu

Carlos Lozano

Rose Qingyang Hu

Fambirai Takawira, ComSoc Treasurer

Yue Gao (TEA-C Rep)

Staff - Non-Voting

Kristine Chin, ComSoc Conferences Director

Bruce Worthman, ComSoc Director of Finance and Business Operations

CONFERENCE DEVELOPMENT BOARD

Chair/Director | Nelson Fonseca

Voting Members (2020-2021)

Ali Ghrayeb (WCNC)

Larry Guoliang Xue (INFOCOM)

Doug Zuckerman

Hikmet Sari

Luis Correia

Zhisheng Niu

Carlos Lozano

Rose Qingyang Hu

Yue Gao (TEA-C Rep)

Staff - Non-Voting

Bruce Worthman, ComSoc Director of Finance and Business Operations

CONFERENCE OPERATIONS BOARD

Chair/Director | Lawrence Wong

Voting Members (2020-2021)

Ali Ghrayeb (WCNC)

Larry Guoliang Xue (INFOCOM)

Doug Zuckerman

Hikmet Sari

Luis Correia (PIMRC)

Zhisheng Niu

Carlos Lozano

Rose Qingyang Hu

Fambirai Takawira, ComSoc Treasurer

Non-Voting Members

Bruce Worthman, ComSoc Director of Finance and Business Operations

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): Rolland Vida

GLOBECOM/ICC Technical Content (GITC): Matthew Valenti

COMSOC PORTFOLIO EVENTS: RECENT & UPCOMING CONFERENCES

Embracing 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.

FLAGSHIP CONFERENCES

Large Conferences covering most of ComSoc's technical scope, supported by most of ComSoc's technical Committees.

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/forums, and an exhibition. The program has been developed to fulfill the needs of both academia and industry.

IEEE GLOBECOM 2021 – Madrid, SPAIN // Hybrid: In-Person and Virtual Conference

www.ieee-globecom.org

General Co-Chairs | Ana Garcia Armada, Juan Manuel Corchado

Technical Program Chair | Sennur Ulukus

GIMS/GITC Steering Committee Chairs | Luis M. Correia, Jiang (Linda) Xie

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 2021 – Virtual Conference

www.ieee-icc.org

General Chair | Ibrahim Gedeon

Technical Program Chair | Sonia Aissa

GIMS Advisor/GITC Advisor | Rolland Vida, Abbas Jamalipour

CORE CONFERENCES

Medium/Large Events (attendance range above 200), targeting an internationally based audience covering a subset of ComSoc's technical scope.

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 2021 – Virtual Conference

www.ieee-ccnc.org

General Chair | Joonhyuk Kang

Technical Program Chair | Kaushik Chowdury

Steering Committee Chair | Alex Gelman

IEEE INFOCOM

International Conference on Computer Communications

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

IEEE INFOCOM 2021 – Virtual Conference

www.ieee-infocom.org

General Chair | Ben Liang

Technical Program Chairs | Tarek F. Abdelzaher, Kaushik Chowdhury, Jiangchuan (JC) Liu

Steering Committee Chair | Larry Xue

IEEE WCNC

Wireless Communications & Networking Conference

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

IEEE WCNC 2021 – Nanjing, CHINA // Hybrid: In-Person and Virtual Conference

www.ieee-wcnc.org

General Chair | Hikmet Sari

Technical Program Chairs | Mohamad Assaad, Octavia Dobre

Steering Committee Chair | Halim Yanikomeroglu

IEEE/IFIP 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 – No Conference

IFIP/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 2021 – Virtual Conference

www.ieee-im.org

General Co-Chairs | Toufik Ahmed, Olivier Festor

Technical Program Chairs | Yacine Ghamri-Doudane, Joon-Myung Kang, Alberto E.

Schaeffer-Filho

Steering Committee Chair | Raouf Boutaba

OTHER CONFERENCES AND WORKSHOPS

Events with normally less than 200 attendees focusing on a more narrow technical scope often driven by one technical committee.

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; techniques for the performance evaluation of communications systems; bringing together top-level engineers and researchers from around the globe.

IEEE CAMAD 2021 – Porto, PORTUGAL

www.ieee-camad.org

General Chairs | Shahid Mumtaz, Burak Kantarci

Technical Program Chairs | Jonathan Rodriguez, Leila Musavian, Claudio Fiandrino

IEEE CLOUDNET

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. This especially, when data centers 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 2021 – Virtual Conference

www.ieee-cloudnet.org

General Chair | Susmit Shannigrahi

Technical Program Chairs | Spyridon Mastorakis, Chrysa Papagianni, Venkatesh Tamarapalli

Steering Committee Chair | Deep Medhi

IEEE CNS

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. This to exchange ideas, techniques, 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 2021 – Virtual Conference

www.ieee-cns.org

General Chair | Kun Sun

Technical Program Chairs | Nitesh Saxena, Yan Wang

Steering Committee Chair | Wade Trappe

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 2021 – Virtual Conference

www.ieee-cqr.org

General Co-Chairs | Pasi Hurri, Brett Brock

Technical Program Chair | Tetsuya Yokotani

Steering Committee Chair | Scott Poretsky

IEEE CSCN

IEEE Conference on Standards for Communications & Networking

Standards play a key role in the success of the communications industry, as enablers of global systems interoperability. IEEE CSCN aims for closing the gap between researchers, scientists and standards experts from academia, industry and different standardization bodies. It will serve as a platform for presenting and discussing standards-related topics in the areas of communications, networking and related disciplines, facilitating standards development as well as cooperation among the key players.

IEEE CSCN 2021 – No Conference

www.ieee-cscn.org

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 2021 – Virtual Conference

www.ieee-ctw.org

General Co-Chairs | Julian Cheng, Andrew Eckford

Technical Program Chairs | Behnaam Aazhang, Natasha Devroye

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 2021 – TBA

www.ieee-dyspan.org

IEEE HEALTHCOM

IEEE International Conference on E-Health Networking Applications & Services

Healthcom brings together interested parties from around the world working in the healthcare 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 2021 – No Conference

www.ieee-healthcom.org

IEEE HPSR

International Conference on High Performance Switching and Routing

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

IEEE HPSR 2021 – Paris, FRANCE // Hybrid: In-Person and Virtual Conference

www.ieee-hpsr.org

General Chair | Abdelhamid Mellouk

Technical Program Chairs | Thiago Abreu, Scott Fowler, Hassine Moun gla

IEEE ICBC

IEEE International Conference on Blockchain and Cryptocurrency

The IEEE International Conference on Blockchain and Cryptocurrency is the primary forum for the technical exchange of the latest research and innovation, regulation, policies, standards, and applications in the exciting and emerging area of blockchain and cryptocurrency.

IEEE ICBC 2021 – Virtual Conference

www.ieee-icbc.org

General Chair | Salil Kanhere

Technical Program Chairs | Raja Jurdak, William Knottenbelt, Bhaskar Krishnamachari

Steering Committee Chair | James Won-Ki Hong

IEEE ICSOS

IEEE International Conference on Space Optical Systems and Applications

The International Conference on Space Optical Systems and Applications (ICSOS) covers technologies, procedures and algorithms that relate to free-space laser communications. The domain of the applications includes terrestrial, near-Earth and deep space (planetary). Areas of interest include components, devices, subsystems, systems (flight and ground), applications, laboratory and field demonstrations, algorithms, link models, signaling techniques and concept of operations.

IEEE ICSOS 2021 – No Conference

www.ieee-icsos.org

IEEE ISPLC

International Symposium on Power Line Communications and its Applications

One of the main features of ISPLC is strong industry participation; it brings together researchers, practitioners and users of PLC technology. The conference will further include a series of keynote and expert panel talks, as well as an Industry Exhibit centred on PLC for Smart Grids. Acceptance of submissions will be based on quality, relevance, and originality; with awards for the best submissions.

IEEE ISPLC 2021 – Aachen, GERMANY // Hybrid: In-Person and Virtual Conference

www.ieee-isplc.org

General Chair | Anil Mengi

Technical Program Chairs | Ralf Lehnert, Thokozani Shongwe, Sicong Liu

IEEE LANMAN

Workshop on Local & Metropolitan Area Networks

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

IEEE LANMAN 2021 – Virtual Conference

www.ieee-lanman.org

General Chairs | Koushik Kar, Stratis Ioannidis

Technical Program Chairs | Sonia Fahmy, Yuki Koizumi

Steering Committee Chair | Nicola Blefari Melazzi

IEEE NETSOFT

IEEE Conference on Network Softwarization

IEEE NetSoft addresses the challenges raised by the overall transformation trend, which is deeply impacting and bridging Telecom and IT industries, currently considered by Software-Defined Networks (SDN), Network Function Virtualization (NFV), and Software-Defined Clouds. This trend is also transforming several other Industries, in using "softwarization" to optimize costs and processes and in bringing new values in infrastructures. In particular, SDN, NFV and network programmability will help create the conditions to reinvent network and cloud architectures, accelerate service deployment and facilitate infrastructure management.

IEEE NETSOFT 2021 – Virtual Conference

www.ieee-netsoft.org

General Co-Chairs | Kohei Shiimoto, Young-Tak Kim

Technical Program Chairs | Christian Esteve Rothenberg, Barbara Martini, Eiji Oki

Steering Committee Chair | Prosper Chemouil

IEEE NFV-SDN

IEEE Conference on Network Function Virtualization and Software Defined Networks

Network Functions Virtualization (NFV) and Software Defined Networks (SDN) enable rapid networks and services innovation for all participants in the ecosystem. Decoupling network functions from the underlying physical infrastructure using virtualization technologies enables Service innovation. SDN allows programmability of the NFV infrastructure to support the deployment of new network functions in a variety of environments including campus & enterprise networks, data centers, telecommunications networks providers, ISPs, cloud providers and over-the-top (OTT) applications & services providers. NFV enables network capacity and functionality to be decoupled, allowing network functions to be dynamically deployed whenever they are required and wherever they can be hosted.

IEEE NFV-SDN 2021 – Heraklion, GREECE // Hybrid: In-Person and Virtual Conference

www.ieee-nfvsdn.org

General Co-Chairs | Kurt Tutschku, Larry Horner

Technical Program Chairs | Antonio de la Oliva, Molka Gharbaoui, Evangelos Pallis

IEEE SECON

Sensor, Mesh and Ad Hoc Communications and Networks

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

IEEE SECON 2021 – Virtual Conference

www.ieee-secon.org

General Co-Chairs | Carla Fabiana Chiasserini, Giuseppe Bianchi

Technical Program Chairs | Luca Chiaraviglio, Chenyang Lu, Kay Römer

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 2021 – Aachen, GERMANY // Hybrid: In-Person and Virtual Conference

www.ieee-smartgridcomm.org

General Chair | Antonello Monti

Technical Program Chairs | Geert Deconinck, Anurag Srivastava, Ari Pouttu

REGIONAL CONFERENCES

Conferences that always occur in a specific region of the world drawing involvement of IEEE Sections and Chapters, technical committees, and ComSoc sister societies.

IEEE ANTS

Advanced Networks & Telecommunication Systems

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

IEEE ANTS 2021 - Hyderabad, INDIA

www.ieee-comsoc-ants.org

General Chair | V. Radha

Technical Program Chair | Neminath Hubballi

Steering Committee Chair | Sudhir Dixit

IEEE BlackSeaCom

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 all over the world to the shores of the Black Sea. This to interact with their colleagues from around 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 2021 – Virtual Conference

www.ieee-blackseacom.org

General Co-Chairs | Octavian Fratu, Burak Kantarci

Technical Program Chairs | Luca Foschini, Simona Halunga

Steering Committee Chair | Mehmet Ulema

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 for sharing of R&D results; to meet and to network. The Communications Society offers to reach out to its members in Latin America and propose a venue that meets the specific needs of their region.

IEEE LatinCom 2021 – Santo Domingo, DOMINICAN REPUBLIC

www.ieee-latincom.org

General Co-Chairs | Fabrizio Granelli, Manuel Mendoza

Technical Program Chairs | Mohammed Atiquzzaman, Keije Lu

Steering Committee Chair | Stefano Bregni

IEEE MEDITCOM

IEEE International Mediterranean Conference on Communications and Networking

IEEE MeditCom will bring together visionaries in academia, research labs and industry from all over the world to the shores of the Mediterranean Sea, with programming that will address many of the outstanding challenges that exist in the areas of communications and networking. The conference will solicit research papers on a wide range of research topics, spanning both theoretical and systems research along with vertical technologies. Known as the “cradle of Western civilization”, IEEE MeditCom participants will also have an opportunity to explore this exciting and dynamic region with its rich history and beauty.

IEEE MEDITCOM 2021 – Athens, GREECE // Hybrid: In-Person and Virtual Conference

meditcom2021.ieee-meditcom.org

General Co-Chairs | Khaled B. Letaief, Christos Verikoukis

Technical Program Co-Chairs | George Rouskas, Yacine Ghamri-Doudane

CONFERENCES FINANCIALLY CO-SPONSORED

Events which facilitate collaboration with other IEEE societies or another type of organization (Sister Societies, ACM, AFCEA, OSA, etc.) having fields of interests overlapping with ComSoc.

MILCOM

IEEE/AFCEA Military Communications Conference

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

MILCOM 2021 – San Diego, CA, USA

www.milcom.org

General Chairs | Charles Clancy, Joseph Evans

Technical Program Chairs | Niranjani Suri, Qinqing (Christine) Zhang

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 2021 – San Francisco, CA, USA // Hybrid: In-Person and Virtual Conference

www.ofcconference.org

General Chairs | Po Dong, Jun-ichi Kani, Chongjin Xie

Program Chairs | Ramon Casellas, Chris Cole, Ming-Jun Li

ATC

International Conference on Advanced Technologies for Communications

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 2021 – Ho Chi Minh City, VIETNAM

atc-conf.org

General Co-Chairs | Mohammad Tariqul Islam, Tran Xuan Tu, Hoang Anh Tuan

Technical Program Chairs | Ha Hoang Kha, Vo Nguyen Quoc Bao, Nguyen Thanh Phuong

EuCNC

European Conference on Networks and Communications

EuCNC is an annual conference held in countries across Europe. It focuses on communications systems and networks, reaching applications and services. One of the main goals of this conference is to showcase the results of European R&D projects co-financed by the European Commission. As such, the conference program includes a large expo with demos, and a large part of the participants are from industry. EuCNC also targets to bring together researchers from all over the world to present the latest research results in networks and communications and the new developments in this field.

EuCNC|6G Summit 2021 – Virtual Conference

www.eucnc.eu

General Chair | Pearse O'Donohue, Miguel Almeida

Technical Program Chair | Manuel Ricardo

Steering Committee Chair | Luis M. Correia

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 the greater China region and feature major technical symposia, industry forums, invited sessions, tutorials, panels, and workshops.

IEEE ICC 2021 – Xiamen, CHINA

www.ieee-iccc.org

General Co-Chairs | Weihua Zhuang, Yuliang Tang, Yanchuan Zhang

Technical Program Chairs | Jianwei Huang, Robert Schober, Liqun Fu, Tong Song

Steering Committee Chair | Xuemin (Sherman) Shen

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 2021 – Virtual Conference

2021.ieeeicme.org

General Co-Chairs | Moncef Gabbouj, Houqiang Li, Guo-Jun Qi, Yonghong Tian

Technical Program Chairs | Wanqing Li, Jiaying Liu, Guan-Ming Su, Anastasios Tefas,

Yonggang Wen, Chonggang Wang

IEEE/ACM IWQoS

IEEE/ACM International Symposium 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. This includes related issues, such as, availability, reliability, security, pricing, resource management, and performance guarantees.

IEEE IWQoS 2021 – Virtual Conference

www.ieee-iwqos.org

General Chairs | Hitoshi Asaeda, Jiannong Cao

Technical Program Chairs | Ruidong Li, Wenjing Lou

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 2021 – Virtual Conference

www.ieee-pimrc.org

General Chair | Matti Latva-aho

Technical Program Chair | Markku Juntti

Steering Committee Chair | Hamid Aghvami

IEEE QCE

IEEE International Conference on Quantum Computing and Engineering

IEEE International Conference on Quantum Computing and Engineering (QCE) invites contributions and participation from the international quantum community to form a world-class program. The multi-faceted event will include a series of world-class keynotes, technical paper presentations, technical briefings, informative tutorials throughout the week, community-building workshops throughout the week, posters, networking receptions, and exhibits featuring the latest technologies and accomplishments from the world's leading vendors, research organizations, and universities.

IEEE QCE 2021 - Virtual Conference

qce.quantum.ieee.org

General Chair | Hausi Müller

Technical Program Chair | Greg Byrd

Steering Committee Chair | Hausi Müller

IEEE VNC

IEEE Vehicular Networking Conference

IEEE Vehicular Networking Conference brings together researchers, professionals, and practitioners. This 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 2021 – Ulm, GERMANY

www.ieee-vnc.org

General Co-Chairs | Frank Kargl, Onur Altintas

Technical Program Chairs | Christoph Sommer, Takamasa Higuchi

Steering Committee Chair | Onur Altintas

EVENTS OF IEEE INITIATIVES SPONSORED BY COMSOC

IEEE 5G SUMMIT

IEEE Communication Society has developed a strategic framework based on the principles that embrace Industry's interests and priorities while integrating IEEE and ComSoc's objectives. In order to engage industry members with high value and innovative technologies, IEEE Communication Society plans to hold a series of high impact one day summits in the emerging technology area of 5G. These one day summits will provide a platform for the industry leaders, innovators, and researchers from the industry community to collaborate and exchange ideas in this emerging technology that may help in driving the standards and rapid deployment.

www.5gsummit.org

IEEE SUSTAINABLE ICT

IEEE Sustainability through ICT Summit

sponsored by the IEEE Sustainable ICT Initiative

The IEEE Sustainability through ICT Summit promotes a holistic approach on prospects for technologies, standards and policies for ICT-enabled sustainable development that also takes into consideration the sustainability of ICT resources.

sustainableict.ieee.org

IEEE IoT SUMMIT

To share the latest developments and future trends in the Internet of Things (IoT) marketplace, the IEEE IoT Community is planning high-impact vertical and topical summits. These summits will provide a platform for leaders, innovators, and researchers from both the industrial and academic communities to collaborate and exchange ideas in this emerging technology, which in turn can help drive standards, rapid deployment, and higher adoption rates.

iot.ieee.org/conferences-events

IEEE WF-IoT

IEEE World Forum of Internet of Things

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

IEEE WF-IoT 2021 – New Orleans, Louisiana, USA // Hybrid: In-Person and Virtual Conference

wfiot2021.iot.ieee.org

General Chairs | Magdy Bayoumi, Adam Drobot

Vertical and Topical Program Chairs | Adam Drobot, Stan Moyer

Program Chairs | Ahmed Abdelgawad, Soumya Kanti Datta, RangaRao Venkatesha Prasad

OTHER EVENTS SUPPORTED BY COMSOC

Brooklyn 5G Summit

The Brooklyn 5G Summit brings together mobile industry R&D leaders in business, government, and academia to explore the future of 5G wireless. Discussions are centered around many cutting edge themes, including 5G radio system design, novel concepts and accomplishments in providing enhanced broadband, massive machine mission-critical communications and programmable networks.

Organized by Nokia and the NYU WIRELESS research center at NYU Tandon School of Engineering.

Brooklyn 5G Summit 2021 – TBA

brooklyn5gsummit.com

PUBLICATIONS

PUBLICATIONS COUNCIL

Chair/Vice President | Robert Schober

Voting Members (2020-2021)

Director - Journals | Michele Zorzi

Director - Magazines | Ekram Hossein

Director - On-Line Content | Ana Garcia Armada

Non-Voting Members (2020-2021)

Petar Popovski

Staff | Joe Milizzo

JOURNALS BOARD

Chair/Director | Michele Zorzi

Voting Members (2020-2021)

Members-at-Large | Robert Schober, Tarik Taleb, Petar Popovski
EIC, *IEEE Communications Letters* | Marco Di Renzo
EIC, *IEEE Communications Surveys & Tutorials* | Dusit Tao Niyato
EIC, *IEEE Journal on Selected Areas In Communications (J-SAC)* | Raouf Boutaba
EIC, *IEEE Networking Letters* | George N. Rouskas
EIC, *IEEE Open Journal of the Communications Society* | Octavia A. Dobre
EIC, *IEEE Transactions on Cognitive Communications and Networking* | Ying-Chang Liang
EIC, *IEEE Transactions on Communications* | Tolga M. Duman
EIC, *IEEE Transactions on Green Communications and Networking* | Ender Ayanoglu
EIC, *IEEE Transactions on Molecular, Biological, and Multi-Scale Communications* | Chan-Byoung Chae
EIC, *IEEE Transactions on Network & Service Management (TNSM)* | Filip De Turck
EIC, *IEEE Transactions on Network Science and Engineering* | Jianwei Huang
EIC, *IEEE Transactions on Wireless Communications* | Junshan Zhang
EIC, *IEEE Wireless Communications Letters* | Kai Kit Wong
EIC, *IEEE/ACM Transactions on Networking* | Ness Schroff
EIC, *IEEE/KICS Journal of Communications and Networks* | Anthony Ephremides
EIC, *IEEE/OSA Journal of Optical Communications and Networking* | Jane Simmons
Liaison to IEEE Publications | Robert Schober

Staff | Joe Milizzo

MAGAZINES BOARD

Chair/Director | Ekram Hossain

Voting Members (2020-2021)

Industrial Members-at-Large - Anthony CK Soong, Rath Vannithamby
EIC, *IEEE Communications Magazine* | Tarek S. El-Bawab
EIC, *IEEE Communications Standards Magazine* | Zhongding (Zander) Lei
EIC, *IEEE Network Magazine* | Chonggang Wang
EIC, *IEEE Wireless Communications Magazine* | Yi Qian
EIC, *The Global Communications Newsletter* | Stefano Bregni
Liaison to IEEE Press | Muhammad Ali Imran

Staff | Joe Milizzo

ON-LINE CONTENT BOARD

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Voting Members (2020-2021)

Conference Development | Nelson Fonseca

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Educational Services | Ranga Rao Venkatesha Prasad

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TEA Council | Tarek El-Bawab

MGA Council | Wahab Almuhtadi

CIO | Zhi Ding

MaL | Alan Gatherer, Matthew Valenti, Shashi Raj Pandey

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MEMBER & GLOBAL ACTIVITIES COUNCIL

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Director - Asia/Pacific Region | Sumei Sun

Director - Europe, Middle-East & Africa Region | Christos Verikoukis

Director - Latin America Region | Nury Gabriela Ramirez Cely

Director - North America Region | Fawzi Behmann

Director - Industry Outreach | Andrea Tonello

Chair - Women in Communications Engineering | Maite Brandt Pearce

Chair - Young Professionals | Shashank Gaur

Non-Voting Members

President | Vincent W. S. Chan

Past President | Khaled B. Letaief

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WOMEN IN COMMUNICATIONS ENGINEERING STANDING COMMITTEE

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Voting Members

Vice Chair | Angela Sara Cacciapuoti

Publicity Chair / Secretary | Sinem Coleri Ergen

Student Competition Representative | Mari Carmen Aguayo-Torres

IEEE WICE Committee Society Coordinator | Maite Brandt-Pearce

Awards Sub-Committee Member-at-Large | Octavia Dobre

Members-at-Large | Urbashi Mitra

Members-at-Large | Meixia Tao

Members-at-Large | Shalinee Kishore

Members-at-Large | Sarah Kate Wilson

Members-at-Large | Ana Garcia Armada

Non-Voting Members

Industry Relation Coordinator | Nada Philip

Student Activity Coordinator | Meryem Simsek

Staff | Carol Cronin

YOUNG PROFESSIONALS STANDING COMMITTEE

Chair | Shashank Gaur

Voting Members

YP MAL | Shashi Raj Pandey, Haitham Afifi, Imran Shafique Ansari, John Benedict Boggala, Michele Polese

Non-YP MAL | Ricardo Veiga

Past Chair | Nury Ramirez (2018-2019), Lola Awoniyi-Oteri (2017-2018)

MEMBER SERVICES BOARD

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Regional Representative - NA | Raed Abdullah

Regional Representative - LA | Carlos Andrés Lozano Garzón

Non-Voting Members

Past Director - Member Services | Song Guo

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EMEA - Past Director | Adlen Ksentini

NA - Past Director | Wahab Almuhtadi

LA - Past Director | Lisandro Zambenedetti Granville

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Chair - Young Professionals (YP) | Shashank Gaur

Young Professionals (YP) / Women in Communications Engineering (WICE) | Angela Sara Cacciapuoti

New York Staff | Carol Cronin

ASIA/PACIFIC REGION BOARD

Chair/Director | Sumei Sun

Voting Members

Past Director | Saewoong Bahk
Vice Director (MDC and CCC) | Tomoaki Ohtsuki
Vice Director (TAC) | Wei Zhang
Vice Director (ISC and MCC) | Youngchul Sung
Secretary and Treasurer | Chau Yuen, Linglong Dai
DLT/DSP Coordinator | Rui Zhang

Chapters Coordination Committee (CCC)

CCC Co-Chairs | Rui Zhang, Yao-Win Peter Hong
CCC Vice-Chairs | Sheng Zhou, Koji Yamamoto

Information Services Committee (ISC)

ISC Co-Chairs | De-Nian Yang, Mianxiong Dong
ISC Vice-Chairs | Jemin Lee, Yong Zeng

Meetings and Conference Committee (MCC)

MCC Co-Chairs | Neelesh Mehta, Hiroshi Shigeno
MCC Vice-Chairs | Doohwan Lee, Li Wang

Membership Development Committee (MDC)

MDC Co-Chairs | Byonghyo Shim, Hsuan-Jung Su
MDC Vice-Chairs | Sudhan Majhi, Yuichi Kawamoto

Technical Affairs Committee (TAC)

TAC Co-Chairs | Lingyang Song , Hung-Yun Hsieh
TAC Vice-Chairs | Tony Quek, Chan-Byoung Chae

New York Staff | Carol Cronin

Singapore Staff | Ewell Tan

Beijing Office | Ning Hua

EUROPE, MIDDLE-EAST & AFRICA REGION BOARD

Chair/Director | Christos Verikoukis

Voting Members

DLT/DSP Coordinator | Saud Althunibat

Awards Committee Chair/Young Researcher Award Program | Luca Foschini

Membership Development/Student Activities/Web Visibility Chairs | Marwa K. Qaraqe,
Mustapha Benjillali

Industry/Academia Cooperation | Diomidis Michalopoulos

Non-Voting Member

Past Chair/Director | Adlen Ksentini

Staff | Carol Cronin

LATIN AMERICA REGION BOARD

Chair/Director | Nury Ramirez

Voting Members

Secretary | Esmeralda Asurza

Awards Committee | Jose David Cely

Global Communications Newsletter (GCN) Committee | Andrea Carrión

Technical Activities Committee | Ignacio Castillo

Industry Relations Committee | Fredy Campos

Social Networks Committee and Webpage | Hector Poveda

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DLT and DSP Coordinator | Andres Navarro

Advisor | Carlos Lozano

Staff | Carol Cronin

NORTH AMERICA REGION BOARD

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Voting Members

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Secretary | Sana Abou-Shaabab
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Region 4 Representative | Tao Zhang
Region 5 Representative | Larry J Horner
Region 6 Representative | Zhensheng Zhang
Region 7 Representative | Anader Benyamin
DLT/DSP Coordinator | Tim Weil

Standing Committees

Awards Committee (NAB-AC) | Fawzi Behmann and Regional reps.
Technical Activities Committee (NAB-TAC)
Information Services Committee (NAB-ISC)
Membership Development Committee (NAB-MDC)
Industry Relations Committee (NAB-IRC)
Student Activities Committee (NAB-SAC)

Past Director | Wahab Almuhtadi

Non-Voting Members

Director Member Services | Ricardo Veiga
VP, Member and Global Activities | Nei Kato

Executive Director | Harold Tepper
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Website | Natasha Simonovki
IT | David Alvarez
Membership | Vinny Rodriguez
Technical Activities and Education | Cynthia Sikora
Marketing | Trish Jaraicie

Advisors | Ibrahim Gedeon | Rodney Wilson | Merrily Hartmann | T. Scott Atkinson

INDUSTRY OUTREACH BOARD

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Sumei Sun (Conference Council)
Michele Zorzi (Publications Council)
Neeli Prasad (Technical Committees Board)
Yuanqiu Luo (Educational Services Board)
Nury Gabriela Ramirez Cely (MGA Council)
Prosper Chemouil (Industry Communities Board)
Jim Lansford (Standardization Programs Development Board)

Non-Voting Members

Periklis Chatzimisios
Ashutosh Dutta
George Koutitas
Hans-Peter Schwefel
Reinaldo Valenzuela

Staff

Harold Tepper, Bruce Worthman

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 (CCIS)

CZECH REPUBLIC/SLOVAKIA – Czech & Slovak Radioengineering Society (RS)

FINLAND – Open Innovations Community (FRUCT)

FRANCE – Société de l'Electricité, 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 and 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 (CoE)

RUSSIA – The Russian Popov Society Institute of Radio Engineering and Electronics Russian Academy of Sciences (A.S. Popov Society) (POPOV)

SINGAPORE – Singapore Computer Society (SCS)

SLOVENIA – The Electrotechnical Association of Slovenia (EVS)

SOUTH AFRICA – South African Institute of Electrical Engineers (SAIEE)

SOUTH KOREA – The Korean Institute of Communications and Information Sciences (KICS)

TAIWAN – Chinese Institute of Electrical Engineering (CIEE)

VIETNAM – The Radio-Electronics Association of Vietnam (REV)

RELATED SOCIETIES

Armed Forces Communications and Electronics Association (AFCEA)

Association for Computing Machines (ACM)

Association of Engineers and Architects in Israel, Society of Electrical and Electronics Engineers (AEAI)

EastWest Institute (EWI)

IEEE Societies (CS, SPS, CAS, LEOS, PES, MTT)

International Telecommunication Union (ITU)

Internet Society (ISOC)

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President Elect | Xuemin (Sherman) Shen

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Stan Moyer (2019-2021)

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2020-2022 | Rose Hu

2020-2022 | Ricardo Veiga

2020-2021 | Wei Zhang

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Gerhard Fettweis, Chair of Strategic Planning Committee (ex-officio)
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This committee catalogs and assesses effectiveness of all new actions, policies taken during pandemic and recommend post-pandemic follow-on practices.

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Voting Members

2020-2021 | Ricardo Veiga | Lawrence Wong | Nirwan Ansar | Fambirai Takawira

MISCONDUCTS OTHER THAN PUBLICATIONS

This committee drafts policy on what constitutes misconduct and procedures to handle cases in a timely but accurate fashion. Act as point of contact on possible misconducts within ComSoc. Coordinate with IEEE Ethics Committee and Legal Counsel to arrive at resolutions.

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REORGANIZATION OF COMSOC TECHNICAL COMMUNITIES

This Committee shall investigate and develop a restructuring plan that will ensure that TCs, ICs, ETIs can operate more effectively and efficiently, enabling ComSoc to sustain and enhance technical prominence into the future. Sought solutions will facilitate contributions from both industrial and academic members, better synergies with local chapters, and support for multi-disciplinary fields, while ensuring technical excellence and higher visibility within and outside ComSoc.

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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.

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DISTINGUISHED LECTURER / SPEAKER PROGRAM

Huseyin Arslan

Lecture Topics

- Flexible and cognitive radio access technologies for 5G and beyond
- Beyond 5G Radio Access Technologies
- 5G and Beyond Waveform Design
- Non-orthogonal waveforms, hybrid waveforms, flexible waveforms
- Cognitive Radio and Adaptive Wireless Systems
- Interference awareness, modeling, avoidance, and cancellation for 5G and beyond
- PHY and cross-layer security for secure wireless communication
- NOMA (non-orthogonal multiple access)
- Centralized RAN, Distributed Multi-antenna Systems, and CoMP for 5G and Beyond
- Flexible OFDM for 5G and Beyond
- Spatial Modulation, Index Modulation and other modulation options for OFDM and beyond
- Channel, Interference, and Signal modeling and estimation using sparsity and machine learning
- Channel and Interference control Mechanisms (including LIS)

Virtual Lecture Topics

- Physical layer security and wireless security
- Flexible Radio Access Beyond 5G: A Future Projection
- Flexible and Cognitive Radio Access Technologies for 5G and Beyond

Term effective through 31 December 2021

Mohammed Atiquzzaman

Lecture Topics

- IP-Based Mobility Management of Space Internet of Things
- Connected and Autonomous Vehicular Communications

Virtual Lecture Topics

- Connecting Space Assets to the Internet: Challenges and Solutions
- Connected Autonomous Vehicles
- Network Mobility in Space and Terrestrial Networks

Oklahoma, United States

Term effective through 31 December 2021

Fawzi Behmann

Lecture Topics

- Early deployment use cases for 5G
- Collaborative IoT from Sensing to Analytics
- IoT, 5G, Time Slicing, and AI/ML/DL enable personalization of services
- How Will 5G Impact Smart Ecosystems?
- Cognitive Approach To Building a Safe and Smart Communities/Cities
- Collaborative IoT, 5G, and AI Empowered Solutions for Healthcare
- Developing IoT Solutions for Smart Homes/Buildings, Smart Car and Smart Energy
- Developing IoT Solutions for Mobility and Public Safety
- Cognitive analytics - road to personalized services
- Autonomous Vehicles/Drone and security
- IOT and machine-to-machine learning
- Is there a common vision for IoT, 5G and Virtualization by 2020?
- Sample use cases of wearables, IoT, drone, virtualization/time slicing, blockchain

Virtual Lecture Topics

- 5G/6G enable edge computing and edge AI
- Disruptive Technologies Enable Personalization of services
- Cognitive Approach to Building Smart Cities/Societies

Texas, United States

Term effective through 31 December 2021

Kaigui Bian

Lecture Topics

- AI-enabled edge computing
- Mobile networks
- Internet of Things (IoT)
- Dynamic spectrum access networks

Virtual Lecture Topics

- AI-enabled edge computing
- Internet of Things (IoT)
- Mobile networks

China

Term effective through 31 December 2021

Xiaojun (Matt) Cao

Lecture Topics

- Network Virtualization, SDN, NFV
- Elastic/flex-grid Optical Networks
- Network Survivability
- Intelligent Sensing and Applications in Secure Cyber Systems

Virtual Lecture Topics

- Applications and Challenges in Network Virtualization
- Service Function Deployment for Future Internet
- Intelligent and Secure Cloud Systems

Georgia, United States

Term effective through 31 December 2021

Chan-Byoung Chae

Lecture Topics

- Macro/nano-scale molecular communications
- mmWave/sub-THz: metasurface, RF architecture, and transmission strategies
- Full/flexible duplex radios
- VR/haptic wireless communications
- Deep learning for wireless communications

Virtual Lecture Topics

- Macro/nano-scale molecular communications
- mmWave/sub-THz: metasurface, RF architecture, and transmission strategies
- Full/flexible duplex radios

South Korea

Term effective through 31 December 2021

Hongyang Chen

Lecture Topics

- IoT
- 5G and B5G technologies
- Edge/Fog computing
- URLLC
- D2D communications
- V2X

Virtual Lecture Topics

- Technologies for 5G and B5G
- Vehicular communications
- Wireless Localization
- Vehicular trajectory analysis and mining
- Internet of Things and Machine-to-Machine Communication
- Ultra-Reliable and Low Latency Communications (URLLC)

China

Term effective through 31 December 2022

Hsiao-Hwa Chen

Lecture Topics

- Complementary Coded Code Hopping Multiple Access - A NOMA Scheme;
- Resource Allocation for PHY-Layer Security in Cellular Underlay V2V Communications.

Taiwan

Term effective through 31 December 2021

Soumaya Cherkaoui

Lecture Topics

- AI-enabled edge computing
- Edge/Fog computing
- Network virtualization, SDN, NFV
- Vehicular communications
- Technologies for 5G and beyond wireless networks
- Internet of Things (IoT)

Canada

Term effective through 31 December 2021

Bruno Clerckx

Lecture Topics

- Rate-Splitting Multiple Access for 6G
- Flexible and Robust Interference Management
- Multi-Antenna/MIMO Technologies for 6G
- Multi-Antenna Non-Orthogonal Multiple Access: Misunderstandings and Misconceptions
- Multi-Antenna Processing for Satellite Communications
- Communication and Signal Designs for Wireless Power Transfer
- Prototyping and Experimentation of Wireless Power Transfer
- Wireless Information and Power Transfer
- Signal Processing and Machine Learning Techniques for Wireless Powered Networks
- Integrated Sensing and Communications
- Intelligent Reflecting Surfaces

Virtual Lecture Topics

- Rate-Splitting Multiple Access for 6G
- Flexible and Robust Interference Management
- Multi-Antenna/MIMO Technologies for 6G
- Multi-Antenna Non-Orthogonal Multiple Access: Misunderstandings and Misconceptions
- Multi-Antenna Processing for Satellite Communications
- Communication and Signal Designs for Wireless Power Transfer
- Prototyping and Experimentation of Wireless Power Transfer
- Wireless Information and Power Transfer
- Signal Processing and Machine Learning Techniques for Wireless Powered Networks
- Integrated Sensing and Communications
- Intelligent Reflecting Surfaces

United Kingdom

Term effective through 31 December 2022

Mahmoud Daneshmand

Lecture Topics

- Big Data & Data Science Technologies: Machine Learning (ML), Artificial Intelligences (AI), Deep Learning (DL), with applications:
- (AI) Driven Networks: Challenges and Solutions
- AI Roadmap for 5G: eHealth
- Intelligent Network Operations and Management
- AI/ML for Future Networks
- AI-Driven Networking: Bandwidth Impacts on Cloud Networks
- Internet of Things and Stream Data Analytics
- AI and ML for FinTech
- Big Data, Internet of Things, Cybersecurity, Streams Analytics & Knowledge Discovery

Virtual Lecture Topics

- Big Data & Data Science Technologies: Machine Learning (ML), Artificial Intelligences (AI), Deep Learning (DL), with applications:
- (AI) Driven Networks: Challenges and Solutions
- AI Roadmap for 5G: eHealth
- Intelligent Network Operations and Management
- AI/ML for Future Networks
- AI-Driven Networking: Bandwidth Impacts on Cloud Networks
- Internet of Things and Stream Data Analytics
- AI and ML for FinTech
- Big Data, Internet of Things, Cybersecurity, Streams Analytics & Knowledge Discovery

New Jersey, United States

Term effective through 31 December 2022

Zhiguo Ding

Lecture Topics

- Multiple access techniques for 5G and B5G systems
- Green communications
- MIMO and cooperative networks

Virtual Lecture Topics

- Multiple access techniques for 5G and B5G systems
- Green communications
- MIMO and cooperative networks

United Kingdom

Term effective through 31 December 2022

Sudhir Dixit

Lecture Topics

- 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

United States

Term effective through 31 December 2021

Melike Erol-Kantarci

Lecture Topics

- AI-enabled Wireless Networks
- Deep and Reinforcement Learning in 5G and 6G
- Distributed Machine Learning for Open Radio Access Network (ORAN)
- AI-enabled Closed-loop RAN automation
- Transfer Reinforcement Learning in Multi-RAT Environments
- Distributed Learning in Multi-access Edge Computing (MEC)
- Energy Trading in Transactive Energy Systems and Microgrids
- Recent advances in Smart Grid Communications

Virtual Lecture Topics

- AI-enabled Wireless Networks
- Distributed Machine Learning for Open RAN (ORAN)
- Connected Autonomous Electric Vehicles (CAEV) and Smart City Integration
- Energy Trading in Transactive Energy Systems and Microgrids
- Ultra-reliable and Low-latency Communications for the Smart Grid

Ottawa, Canada

Term effective through 31 December 2022

Feifei Gao

Lecture Topics

- Deep Learning for Physical Layer Communications: An Attempt Towards 6G
- An Angle Domain Perspective for Designing Extremely Large MIMO System

Virtual Lecture Topics

- Deep Learning for Physical Layer Communications: An Attempt Towards 6G
- An Angle Domain Perspective for Designing Extremely Large MIMO System

China

Term effective through 31 December 2022

Giovanni Geraci

Lecture Topics

- What's the Story with UAV Cellular Communications?
- IEEE 802.11be: Wi-Fi Strikes Again

Virtual Lecture Topics

- What's the Story with UAV Cellular Communications?
- IEEE 802.11be: Wi-Fi Strikes Again

Spain

Term effective through 31 December 2022

Giovanni Giambene

Lecture Topics

- Advanced Satellite Networking
- IoT via 5G Satellite Systems
- QoS for the Internet
- UAV-HAP-megaLEO-GEO, the 3D Aerial Component for 5G and Beyond Systems
- Queuing Theory: Models Applied to Telecommunication Problems
- Multipath Transport Protocols
- 5G and Vehicular Communications (V2X)

Virtual Lecture Topics

- Advanced Satellite Networking
- IoT via 5G Satellite Systems
- QoS for the Internet
- UAV-HAP-megaLEO-GEO, the 3D Aerial Component for 5G and Beyond Systems
- Queuing Theory: Models Applied to Telecommunication Problems
- Multipath Transport Protocols
- 5G and Vehicular Communications (V2X)

Italy

Term effective through 31 December 2022

Fabrizio Granelli

Lecture Topics

- Network Function Virtualization in Aerial Communications
- SDN & NFV in future communication networks
- Automating network management in 5G and beyond mobile networks
- Integrating UAVs in 6G mobile networks
- Computing in Communication Networks
- Cognition and Network Automation
- Communications infrastructure at the time of pandemics

Virtual Lecture Topics

- Network Function Virtualization in Aerial Communications
- SDN & NFV in future communication networks
- Automating network management in 5G and beyond mobile networks
- Integrating UAVs in 6G mobile networks
- Computing in Communication Networks
- Cognition and Network Automation
- Communications infrastructure at the time of pandemics

Italy

Term effective through 31 December 2022

Walaa Hamouda

Lecture Topics

- Toward future generations of wireless communications
- IoT and Machine-to-Machine communications

Virtual Lecture Topics

- Toward future generations of wireless communications
- IoT and Machine-to-Machine communications

Montreal, Canada

Term effective through 31 December 2022

M. Shamim Hossain

Lecture Topics

- Explainable AI for digital health
- 5G-based healthcare Vertical
- Advanced deep learning techniques for healthcare

Virtual Lecture Topics

- AI-IoT for healthcare
- Meta learning for connected health
- Edge-learning for healthcare

Saudi Arabia

Term effective through 31 December 2022

Kaibin Huang

Lecture Topics

- Mobile edge computing for 5G-and-beyond
- Edge machine learning in next-generation communication
- Wireless power transfer in next-generation networks
- Wireless networks with energy harvesting
- Effective wireless data aggregation for Internet-of-Things

Virtual Lecture Topics

- Mobile edge computing for 5G-and-beyond
- Edge machine learning in next-generation communication
- Wireless power transfer in next-generation networks

Hong Kong

Term effective through 31 December 2022

Adlen Ksentini

Lecture Topics

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

France

Term effective through 31 December 2021

Cheng Li

Lecture Topics

- Opportunistic and Cooperative Forwarding in Mobile Ad-hoc Networks with Light-Weight Proactive Source Routing
- Energy-Efficient Coordination Schemes for Underwater Acoustic Sensor Networks

Virtual Lecture Topics

- Opportunistic and Cooperative Forwarding in Mobile Ad-hoc Networks with Light-Weight Proactive Source Routing
- Energy-Efficient Coordination Schemes for Underwater Acoustic Sensor Networks

Newfoundland, Canada

Term effective through 31 December 2022

Shiwen Mao

Lecture Topics

- Key technologies for 5G and beyond
- Machine learning for wireless communications and networking
- Spectrum sensing and sharing
- RF Sensing, indoor localization, and eHealth

Virtual Lecture Topics

- Key technologies for 5G and beyond
- Machine learning for wireless communications and networking
- Spectrum sensing and sharing
- RF Sensing, indoor localization, and eHealth

Alabama, United States

Term effective through 31 December 2022

Sudip Misra

Lecture Topics

- Role of IoT in Healthcare 4.0: Opportunities and Challenges
- IoT in e-Health: From Wearables to Diagnostic systems
- Synergizing IoT with 5G and Beyond: Applications, Challenges, and Scope
- How UAVs and UAV Networks are shaping the future of communication.
- UAV Networks: Architectures, Opportunities, Challenges, and Future
- Future Communication and Networking Paradigms over the THz Frequency Spectrum
- Enabling IoT over Massively Constrained Networks

Virtual Lecture Topics

- IoT in e-Health: From Wearables to Diagnostic systems
- UAV Networks: Architectures, Opportunities, Challenges, and Future
- Synergizing IoT with 5G and Beyond: Applications, Challenges, and Scope

Term effective through 31 December 2021

Shahid Mumtaz

Lecture Topics

- Intelligent Reflected Surfaces for Future Wireless System
- 6G: Vision, Requirements, Technical Challenges, Standardization & Implementations
- 5G Standardization, New Radio and Next-Generation Core (NGC)- 3GPP Release 15-16
- Antenna design, Beamforming, Precoding, Massive MIMO, mmWave /THz Communication, and System Level Modelling
- Dynamic Spectrum Management: spectrum sharing, LTE-U/LAA, WiFi-LTE aggregation, Multefire, Satellite, and terrestrial spectrum sharing
- LTE to 5G: Vision, Requirements, Technical Challenges and Technologies for 6G
- Network Sharing, Network Slicing, NVF, SDN, Edge computing, and Caching
- Ultra Reliable and Low latency Communication (URLCC) for 5G, IoT, Time Sensitive networking and V2X communication

Virtual Lecture Topics

- Intelligent Reflected Surfaces for Future Wireless System
- 6G: Vision, Requirements, Technical Challenges, Standardization & Implementations
- 5G Standardization, New Radio and Next-Generation Core (NGC)- 3GPP Release 15-16
- Antenna design, Beamforming, Precoding, Massive MIMO, mmWave /THz Communication, and System Level Modelling
- Dynamic Spectrum Management: spectrum sharing, LTE-U/LAA, WiFi-LTE aggregation, Multefire, Satellite, and terrestrial spectrum sharing
- LTE to 5G: Vision, Requirements, Technical Challenges and Technologies for 6G
- Network Sharing, Network Slicing, NVF, SDN, Edge computing, and Caching
- Ultra Reliable and Low latency Communication (URLCC) for 5G, IoT, Time Sensitive networking and V2X communication

Portugal

Term effective through 31 December 2022

Arumugam Nallanathan

Lecture Topics

- Artificial Intelligence (AI) for Massive Internet of Things (mIoT)
- Intelligent Reflecting Surface (IRS) Enhanced Wireless Networks
- Communication Technologies for Industrial IoT
- Artificial Intelligence (AI) for Unmanned Aerial Vehicles (UAV)
- Technologies for 5G and beyond wireless networks
- Molecular Communications

Virtual Lecture Topics

- Artificial Intelligence (AI) for Massive Internet of Things (mIoT)
- Communication Technologies for Industrial IoT
- Intelligent Reflecting Surface (IRS) Enhanced Wireless Networks

United Kingdom

Term effective through 31 December 2021

Qiang Ni

Lecture Topics

- The list of lecture topics and virtual lecture topics
- List of lecture topics:
- Green Wireless Communications Systems
- Mobile Edge Computing

Virtual Lecture Topics

- Green Wireless Communications Systems
- Mobile Edge Computing
- Intelligent Spectrum Sharing for Cognitive Radio Networks

United Kingdom

Term effective through 31 December 2022

Radia Perlman

Lecture Topics

- Network Protocols: Myths, Missteps, and Mysteries
- How to Build an Insecure System out of Perfectly Good Cryptography
- Distributed Trust: Is “Blockchain” the best approach?

Virtual Lecture Topics

- What is distributed trust, and is blockchain the best solution?
- How to build an insecure system out of perfectly good cryptography
- Network Protocols: Myths, Missteps, and Mysteries

Washington, United States

Term effective through 31 December 2021

Yi Qian

Lecture Topics

- 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

Nebraska, United States

Term effective through 31 December 2021

Tony Q.S. Quek

Lecture Topics

- AI: A Networking and Communication Perspective
- Modelling, Learning, and Control in Future Wireless Networks
- Towards Massive, Ultra-Reliable, and Low-Latency Communications
- Machine Learning for Future Wireless Systems
- Start thinking about 6G

Singapore

Term effective through 31 December 2021

Giorgio Quer

Lecture Topics

- 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

Virtual Lecture Topics

- DETECT: Wearable Sensor Data to Predict COVID-19 and Viral Illnesses
- Machine Learning in Digital Medicine
- Big Health Data with Wearables: Sensing, Processing and Outcomes

United States

Term effective through 31 December 2021

Joel J. P. C. Rodrigues

Lecture Topics

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

Brazil

Term effective through 31 December 2021

Brian Sadler

Lecture Topics

- Autonomy and Multi-Agent Communications
- Physical Layer Fingerprinting By Design: Authentication and Security
- A New Perspective on Lower-VHF
- Driverless Cars: Alice or Bob? (For general audiences)

Virtual Lecture Topics

- Physical Layer Fingerprinting By Design: Authentication and Security
- A New Perspective on Lower-VHF Communications
- Driverless Cars: Alice or Bob?

Maryland, United States

Term effective through 31 December 2021

Biplab Sikdar

Lecture Topics

- Internet of Things: Technologies and Challenges for Beyond-5G Networks
- Cyber Security Challenges and Solutions for the Internet of Things
- Cyber Security and Privacy for Smart Cities
- Securing Smart Grids: Attacks, Countermeasures and Defense Strategies

Virtual Lecture Topics

- Cyber Security Challenges and Solutions for the Internet of Things
- Cyber Security and Privacy for Smart Cities
- Securing Smart Grids: Attacks, Countermeasures and Defense Strategies

Singapore

Term effective through 31 December 2022

Oswaldo Simeone

Lecture Topics

- Meta-learning for communication systems
- Federated learning in communication systems
- Neuromorphic computing and communication systems

Virtual Lecture Topics

- Meta-learning for communication systems
- Federated learning in communication systems
- Neuromorphic computing and communication systems

United Kingdom

Term effective through 31 December 2022

Besma Smida

Lecture Topics

- InBand Full-Duplex (IBFD) communication networks
- MIMO IBFD transceiver design
- Single-antenna IBFD using backscatter modulation
- Advanced self-interference cancellation techniques — Machine Learning
- Delay, reliability, rate tradeoffs in wireless broadcast channels

Virtual Lecture Topics

- InBand Full-Duplex (IBFD) communication networks
- MIMO IBFD transceiver design
- Single-antenna IBFD using backscatter modulation

Illinois, United States

Term effective through 31 December 2022

Suresh Subramaniam

Lecture Topics

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

Virtual Lecture Topics

- The evolution of data center network architectures
- Elastic optical networks
- Straggler mitigation in cloud computing

United States

Term effective through 31 December 2021

Chee Wei Tan

Lecture Topics

- Perspectives on Artificial Intelligence (AI) in Networks: Past, Present and Future
- Automated Reasoning by Convex Optimization in Information Theory
- Smart Cloud Pricing: Theory, Algorithms and Applications
- Optimizing Software-Defined Radio Networks
- Epidemic Source Statistical Inference with Applications to COVID-19 Pandemic and Infodemic
- Distributed Optimization for Cloud-driven Communication-Efficient Machine Learning

Virtual Lecture Topics

- Perspectives on Artificial Intelligence (AI) in Networks: Past, Present and Future
- Epidemic Source Statistical Inference with Applications to COVID-19 Pandemic and Infodemic
- Automated Reasoning by Convex Optimization in Information Theory

Hong Kong

Term effective through 31 December 2022

Christian Timmerer

Lecture Topics

- HTTP Adaptive Streaming (HAS) -- Quo Vadis?
- Quality of Experience (QoE) for Traditional and Immersive Media Services
- Immersive Media Services: from Encoding to Consumption
- 20 Years of Streaming in 20 Minutes
- Multimedia Communication, Networking, Protocols, Delivery
- Multimedia Standards (MPEG, IETF, W3C)

Virtual Lecture Topics

- HTTP Adaptive Streaming (HAS) -- Quo Vadis?
- Quality of Experience (QoE) for Traditional and Immersive Media Services
- Immersive Media Services: from Encoding to Consumption
- 20 Years of Streaming in 20 Minutes
- Multimedia Communication, Networking, Protocols, Delivery
- Multimedia Standards (MPEG, IETF, W3C)

Austria

Term effective through 31 December 2022

Damla Turgut

Lecture Topics

- Physical and computational modeling of smart homes
- Communication, computation, and privacy trade-off in machine learning for smart environments

Virtual Lecture Topics

- Physical and computational modeling of smart homes
- Communication, computation, and privacy trade-off in machine learning for smart environments

Florida, United States

Term effective through 31 December 2022

Shahrokh Valaee

Lecture Topics

- Indoor Localization of Wireless Nodes
- Positioning in 5G and beyond
- Vehicular Communication and Networking
- Machine Learning with Imbalanced Data
- Pruning of Deep Neural Networks
- Scheduling in Cellular and Vehicular Environment
- Network Reoptimization for 6G and UAV-assisted networks

Virtual Lecture Topics

- Indoor Localization of Wireless Nodes
- Positioning in 5G and beyond
- Vehicular Communication and Networking
- Machine Learning with Imbalanced Data
- Pruning of Deep Neural Networks
- Scheduling in Cellular and Vehicular Environment
- Network Reoptimization for 6G and UAV-assisted networks

Toronto, Canada

Term effective through 31 December 2022

César Vargas-Rosales

Lecture Topics

- 5G, A spectral efficiency perspective using MIMO
- Localization for ad-hoc and sensor networks
- Connectivity in wireless networks
- Stochastic modeling for networking
- Error correcting codes for communications and storage

Virtual Lecture Topics

- 5G, A spectral efficiency perspective using MIMO
- Localization for ad-hoc and sensor networks
- Connectivity in wireless networks
- Stochastic modeling for networking
- Error correcting codes for communications and storage

Mexico

Term effective through 31 December 2022

Kun Yang

Lecture Topics

- Mobile edge computing, data and energy integrated networks
- Internet of Things, UAV-enabled communications

Virtual Lecture Topics

- Mobile Edge Computing and Communications from the Sky
- Flexible IoT Gateways Supporting RF Energy Transfer
- UAV-based Wireless Communications, Computing and Charging

Term effective through 31 December 2021

Edmund Yeh

Lecture Topics

- Data-centric network architectures
- Optimal caching
- Edge computing
- Wireless network optimization
- Data-intensive science and engineering

Virtual Lecture Topics

- Data-centric network architectures
- Optimal caching
- Edge computing
- Wireless network optimization
- Data-intensive science and engineering

Massachusetts, United States

Term effective through 31 December 2022

Shui Yu

Lecture Topics

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

Virtual Lecture Topics

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

Australia

Term effective through 31 December 2021

Angela Yingjun Zhang

Lecture Topics

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

Hong Kong

Term effective through 31 December 2021

Yan Zhang

Lecture Topics

- Mobile Edge Computing and Edge Intelligence
- Digital Twin for 6G and Internet of Things
- Blockchain for 6G and Internet of Things
- Deep Reinforcement Learning for 6G and Internet of Things
- Internet of Vehicles

Virtual Lecture Topics

- Edge Intelligence
- Digital Twin for 6G and Internet of Things
- Blockchain for 6G and Internet of Things

Norway

Term effective through 31 December 2022

Zhensheng Zhang

Lecture Topics

- Cloud computing, fog/edge computing, IoT
- Machine learning based Cognitive radio/networks
- 5G and beyond
- Dynamic spectrum allocation
- Artificial intelligence (AI) based on Delay Tolerant Networks (DTN)

Virtual Lecture Topics

- Fog computing overview

Term effective through 31 December 2021

Lian Zhao

Lecture Topics

- Service scheduling and Resource Management for future wireless communication networks
- Dynamic mobile edge caching: applications and theories
- Channel allocation for Vehicular ad-hoc Networks
- Energy efficiency maximization with multi-channel communications

Virtual Lecture Topics

- Collaborative task offloading and scheduling with mobile edge computing
- Service Scheduling and Resource Management for Future Wireless Communication Networks
- Dynamic Mobile Edge Caching: Applications and Theories

Term effective through 31 December 2021

Zuqing Zhu

Lecture Topics

- 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

China

Term effective through 31 December 2021

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 U.S. 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 an 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 honors the successes of our members and individuals in communications technology who make substantial contributions to the advancement of the industry.

CAREER AWARDS

Recognizing distinguished and significant contributions to education, major industry advances, and major contributions to public welfare.

IEEE Communications Society Education Award

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

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

Eligibility – An IEEE 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 the writing of scholarly books and texts, course materials, and papers on education; inspirational and innovative teaching; and creativity in the development of new curricula and methodology.

Presentation – Annually, presented by the IEEE Communications Society Awards Committee Chair and in the name of the IEEE Communications Society during the Global Communications Conference (GLOBECOM).

2020 Recipient - Zhi Ding

IEEE Communications Society Edwin Howard Armstrong Achievement Award

Prize – Certificate, plaque, and honorarium of US\$2,000 (funded by the IEEE Foundation).

Eligibility – Must be a member of the Communications Society at time of nomination.

Basis for Judging – Demonstrates 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 a suitable candidate is not available.

2020 Recipient - Giuseppe Cair

IEEE Communications Society Distinguished Industry Leader Award

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

Description - Recognizes 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 communications industry executive who has played a major leadership role in research or development and the introduction of systems, devices, applications or services that have significantly impacted the communications and information markets on a global basis. The candidate must show that he or she has 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 factors such as the global acceptance of products and services, financial success and growth of the business, ubiquity of the products and services, emulation of the contributions by the competition, and the degree of the candidate's global recognition. Other selection criteria include time of service, impact, and specific innovations

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.

2020 Recipient - Mallik Tatipamula

IEEE Communications Society Industrial Innovation Award

Prize – Plaque, certificate, and honorarium of US\$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 within the industry for major industrial accomplishments, standards, deployment of important processes or products, etc., Also, 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.

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 will be presented at a major Communications Society annual conference or venue appropriate to the business area of the recipient.

2020 Recipient - No Award

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

Prize – Certificate, plaque, and honorarium of US\$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.

2020 Recipient - Dong Ku Kim

IEEE Communications Society Robert M. Walp Industry Humanitarian Award

Prize - Plaque, certificate, and honorarium of US\$1000.

Eligibility - An information or communications industry executive who played a major leadership role in research or development and introduction of systems, devices, applications or services that have significantly impacted humanity through availability and use of such technologies in developing or under-served areas, improving the well-being of people, or enabling their access to emergency and other basic services. The candidate is not required to be an IEEE member.

Basis for Judging - Executive leadership applying advances in information and communications technology so that they have a substantial impact on humanitarian needs and objectives. Evaluation is based on such factors as widespread acceptance of the products and services, meeting humanitarian objectives, ubiquity of the products and services in under-served or underdeveloped regions or communities, emulation of the contributions by others, and degree of global recognition of the candidate by humanitarian and other organizations. Other factors include time of service, impact, specific innovations, etc.

Presentation - The award will be presented at either a major Communications Society annual event or an industry venue appropriate to the recipient, such venue being chosen by mutual agreement of ComSoc and the recipient. The award will not be conferred in any given year if a suitable candidate is not identified. No more than one award will be given in any calendar year (January 1 – December 31).

2020 Recipient - No Award

SERVICE AWARDS

Recognizes members who have demonstrated exemplary service to IEEE ComSoc in the areas of meetings and conferences, publications, globalization, and overall service to the Society.

IEEE Communications Society Donald W. McLellan Meritorious Service Award

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

Eligibility – Must be a member of the IEEE Communications Society.

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

Presentation – Annually, (as soon as possible after recommendation) or award will not be presented if a suitable candidate is not available.

2020 Recipient - Michael Kincaid

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

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

Eligibility

IEEE Communications Society members having demonstrated exemplary services to the meetings and conferences of the Society over a sustained period of time.

Basis for Judging

Evaluation of candidates is based on such factors as long-term service, significant contributions, strategic planning and financial success, etc. No more than one award will be given per year. The award will not be conferred in any given year if a suitable candidate is not identified.

Presentation – Annually (as appropriate).

2020 Recipient - Nelson Fonseca

IEEE Communications Society Joseph LoCicero Award for Exemplary Service to Publications

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

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 – Exemplary service to IEEE Communications Society publications over a sustained period of time.

Presentation - Annually (as appropriate)

2020 Recipient - Michele Zorzi

IEEE ComSoc/KICS Exemplary Global Service Award

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

Eligibility – Member of the Communications Society or the Korean Information & Communications Society at time of nomination.

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

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

2020 Recipient - No Award

IEEE Communications Society Carole Swaim Award for Distinguished Staff Service

Prize - The award will include a plaque, certificate, and honorarium of US\$1,000.

Eligibility - Member of the IEEE Communications Society Staff.

Basis for Judging - For outstanding service over a period of years to the IEEE Communications Society.

Presentation - The award shall be presented during IEEE GLOBECOM. The award title and description, with the recipient's name, shall be included in the ComSoc Community Directory. There is no requirement to confer the award in any given year.

2020 Recipient - Natasha Simonovski

PAPER AWARDS

Recognizes achievements in the publications of papers that are published in IEEE ComSoc magazines and journals.

IEEE Communications Society Best Survey Paper

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

Presentation - Annually, at the ICC Conference.

2021 Award Recipients

Yuyi Mao, Changsheng You, Jun Zhang, Kaibin Huang, and Khaled B. Letaief
"A Survey on Mobile Edge Computing: The Communication Perspective," *IEEE Communications Surveys and Tutorials*, Vol. 19, No. 4, pp. 2322-2358, Fourth Quarter 2017.

The IEEE Communications Society Best Tutorial Paper Award

Prize – Plaque and honorarium up to US\$500 for each author (award total not to exceed US\$1,000).

Eligibility – Given to an outstanding tutorial paper published in any IEEE 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 is submitted to the Communications Society Awards Committee for final selection.

Presentation – Annually, (as soon as possible after recommendation) if in any year no eligible paper is deemed to be of sufficient quality, no award will be given.

2021 Award Recipients

Mansoor Shafi, Andreas F. Molisch, Peter J. Smith, Thomas Haustein, Peiying Zhu, Prasan De Silva, Fredrik Tufvesson, Anass Benjebbour, and Gerhard Wunder
"5G: A Tutorial Overview of Standards, Trials, Challenges, Deployment, and Practice,"
IEEE Journal on Selected Areas in Communications, Vol. 35, No. 6, pp. 1201-1221,
June 2017.

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

Prize - Plaque and honorarium of US\$500 per author (up to a maximum total of US\$2,000). If more than four authors, the maximum of US\$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 composed 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.

Presentation - Annually, at the OFC Conference.

2021 Award Recipients

Cyriel Minkenberg, Nathan Farrington, Aaron Zilkie, David Nelson, Caroline P. Lai, Dan Brunina, Jerry Byrd, Bhaskar Chowdhuri, Nick Kucharewski, Karl Muth, Amit Nagra, German Rodriguez, David Rubi, Thomas Schrans, Pradeep Srinivasan, Yeong Wang, Chiang Yeh, and Andrew Rickman

"Reimagining Datacenter Topologies With Integrated Silicon Photonics," *IEEE/OSA Journal of Optical Communications and Networking*, Vol. 10, No. 7, pp. 126-139, July 2018

The IEEE Communications Society Fred W. Ellersick Prize

Prize – Up to \$500 and Plaque per author (total prize not to exceed \$1,000). Maximum number of awards will be two (up to two papers per year), but only if a suitable number of recipients are identified.

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

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

2021 Award Recipients

Mohamed Alzenad, Muhammad Z. Shakir, Halim Yanikomeroglu, and Mohamed-Slim Alouini

"FSO-Based Vertical Backhaul/Fronthaul Framework for 5G+ Wireless Networks," *IEEE Communications Magazine*, Vol.56, No. 1, pp 218-224, Jan 2018.

Xingqin Lin, Vijaya Yajnanarayana, Siva D. Muruganathan, Shiwei Gao, Henrik Asplund, Helka-Liina Maattanen, Mattias Bergström, Sebastian Euler, and Y-P. Eric Wang
"The Sky Is Not the Limit: LTE for Unmanned Aerial Vehicles," *IEEE Communications Magazine*, Vol.56, No. 4, pp 204-210, April 2018.

The IEEE Communications Society Heinrich Hertz Award for Best Communications Letter

Prize - Plaque and honorarium of US\$500 per author (up to a maximum total of US\$2000). Maximum number of awards will be two (up to two papers per year), but only if a suitable number of recipients are identified.

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 – This award is given to 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 composed 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.

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.

2021 Award Recipients

Guan Gui, Hikmet Sari and Ezio Biglieri

"A New Definition of Fairness for Non-Orthogonal Multiple Access," *IEEE Communications Letters*, Vol. 23, No. 7, pp. 1267-1271, July 2019.

Shuhang Zhang, Hongliang Zhang, Qichen He, Kaigui Bian and Lingyang Song
"Joint Trajectory and Power Optimization for UAV Relay Networks," *IEEE Communications Letters*, Vol. 22, No. 1, pp. 161-164, January 2018.

The IEEE Communications Society Leonard G. Abraham Prize

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

Eligibility – Publication of an original paper published in the IEEE Journal on Selected Areas in Communications in the previous three calendar years. The author(s) 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 submitted.

2021 Award Recipients

Shiqiang Wang, Tiffany Tuor, Theodoros Salonidis, Kin K. Leung, Christian Makaya, Ting He and Kevin Chan

"Adaptive Federated Learning in Resource Constrained Edge Computing Systems," *IEEE Journal on Selected Areas in Communications*, Vol. 37, No. 6, pp. 1205-1221, June 2019.

The IEEE Communications Society Outstanding Paper Award

Prize - \$1,000 to be split equally among co-authors of the awarded paper. Each author and co-author will receive a Plaque. At most one paper may be selected annually.

Description - To honor the author(s) of an outstanding technical paper in the areas of interest and scope of the IEEE Communications Society (ComSoc).

Eligibility - Author(s) of an impactful technical manuscript in the areas of interest of the Society, which has been published (i.e., assigned to an issue) in the previous 3 calendar years in Transactions or Journals solely/primarily owned/managed by ComSoc where no dedicated award exists at the time of publication of the paper. There are no restrictions for the Authors to be IEEE/ComSoc Members. Previous recipients of this award are eligible for a different paper. The list of journals and Transactions is provided before the end of each calendar year on the webpage of the Society.

Basis for Judging - Originality, overall impact, and clarity of presentation.

Presentation - Annually, preferably at ICC or GLOBECOM (as soon as possible after recommendation), or at a ComSoc Conference with very high visibility and attendance.

2021 Award Recipients

Xianfu Chen, Honggang Zhang, Celimuge Wu, Shiwen Mao, Yusheng Ji, and Mehdi Bennis

"Optimized Computation Offloading Performance in Virtual Edge Computing Systems Via Deep Reinforcement Learning," *IEEE Internet of Things Journal*, Vol. 6, No. 3, pp. 4005-4018, June 2019.

The IEEE Communications Society Stephen O. Rice Prize

Prize – Plaque and honorarium up to US\$500 for each author (total not to exceed US\$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, and 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) if in any year no eligible paper is deemed to be of sufficient quality, no award will be given.

2021 Award Recipients

Gang Yang, Ying-Chang Liang, Rui Zhang, and Yiyang Pei

"Modulation in the Air: Backscatter Communication Over Ambient OFDM Carrier," *IEEE Transactions on Communications*, Vol. 66, No. 3, pp. 1219-1233, March 2018.

The IEEE Communications Society William R. Bennett Prize

Prize – Plaque and honorarium up to US\$500 for each author (total not to exceed US\$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. The author(s) need not be an IEEE member.

Basis for Judging – Quality, originality, utility, timeliness, and 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) if in any year no eligible paper is deemed to be of sufficient quality, no award will be given.

2021 Award Recipients

Arjun Anand, Gustavo de Veciana and Sanjay Shakkottai
"Joint Scheduling of URLLC and eMBB Traffic in 5G Wireless Networks," *IEEE/ACM Transactions on Networking*, Vol. 28, No. 2, pp. 477-490, April 2020.

IEEE Communications Society Young Author Best Paper Award

Prize - Plaque and honorarium of US\$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. Maximum number of awards will be two (up to two papers per year), but only if a suitable number of recipients are identified.

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. Whom also, 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.

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

2021 Award Recipients

Qingqing Wu, Yong Zeng and Rui Zhang

"Joint Trajectory and Communication Design for Multi-UAV Enabled Wireless Networks," *IEEE Transactions on Wireless Communications*, Vol. 17, No. 3, pp. 2109-2121, March 2018.

Mingzhe Chen, Walid Saad and Changchuan Yin
"Virtual Reality Over Wireless Networks: Quality-of-Service Model and Learning-Based Resource Management," *IEEE Transactions on Communications*, Vol. 66, No. 11, pp. 5621-5635, Nov. 2018.

The IEEE Communications Society Award for Advances in Communication

Prize – Plaque and honorarium of US\$500 per author (up to a maximum total of US\$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(s) 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 1 March 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.

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

2021 Award Recipients

Fadel F. Digham, Mohamed-Slim Alouini and Marvin K. Simon

"On the Energy Detection of Unknown Signals Over Fading Channels," *IEEE Transactions on Communications*, Vol. 55, No. 1, pp. 21-24, Jan. 2007.

The IEEE Communications Society/Information Theory Society Joint Paper Award

Prize – A plaque and an honorarium up to US\$500 for each author (total not to exceed US\$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 and is 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 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).

2021 Award Recipients

Sung-En Chiu, Nancy Ronquillo and Tara Javidi

"Active Learning and CSI Acquisition for mmWave Initial Alignment," *IEEE Journal on Selected Areas in Communications*, Vol.37, No. 11, pp. 2474 - 2489, November 2019.

IEEE Marconi Prize Paper Award in Wireless Communications

Prize – Plaque, honorarium of up to US\$1,000, and 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 and 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.

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. Presented at the International Conference on Communications.

2021 Award Recipients

Chongwen Huang, Alessio Zappone, George C. Alexandropoulos, Mérouane Debbah, and Chau Yuen

"Reconfigurable Intelligent Surfaces for Energy Efficiency in Wireless Communication," *IEEE Transactions on Wireless Communications*, Vol. 18, No. 8, pp. 4157-4170, August 2019.

IEEE AWARDS

Recognition for an outstanding paper can be given at both Society and Institute levels. Editor(s)-in-Chief may wish to nominate automatically the winning Communications Society papers for appropriate IEEE 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

(IEEE approval: December 2015)
(ComSoc Membership approval: April 2016)

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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

ComSoc Approval: 10 July 2020
IEEE Approval: 10 November 2020
Effective Date: 10 November 2020

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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, Life 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 and Affiliates shall have all the rights and privileges of membership within the Society except for the right to vote on matters presented to the Society membership and the right to hold office. Associate Members shall

have all the rights and privileges of membership within the Society, except 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 (elected and appointed) of the Society shall be members of the Society (Graduate Student level or higher). In addition, all voting members of all Society assemblies (including Technical Committees and Industry Communities) and Society Representatives shall be members of the Society (Graduate Student level or higher). 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), 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 serve only one term.

- 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 four 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, and Vice President-Member and Global 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.
- Past President – The term shall be filled by the VP-Technical and Educational Activities and then by the Vice President-Publications, Vice President-Conferences, and Vice President-Member and Global Activities, in that order.
- 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 highest 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 highest 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.
- o 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 November 1 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.
- Society Parliamentarian – The role of the Society Parliamentarian shall be strictly limited to giving advice to the Chair during BoG and OpCom meetings and, when requested or needed, to any other Society assembly Chairs and members. It is also the duty of the Society Parliamentarian to advise the Chair of potential actions that could affect the substantive rights of any member or may otherwise do harm. The Chair has the duty to make the final ruling and therefore may follow the advice of the Parliamentarian or disregard it. The Society Parliamentarian also has the same duty as the presiding officer to maintain a position of impartiality and, differently from other non-voting officers, shall not be allowed to make/second motions or participate in debate.
 - 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 be appointed for not more than two consecutive terms for the same position. After two consecutive terms as an

appointed Officer, the volunteer shall not be eligible to serve in the same position until the lapse of two terms from the end of their last term. All Society appointed Officers shall serve for the nominal term of the President unless otherwise specified in these Bylaws.

- 3.3.5 For each appointed BoG position, there shall be documentation attesting that an earnest effort was made to identify a diverse set of qualified candidates and that no discrimination was made pursuant to IEEE Policy 9.26. The process for preparing and submitting the Diversity Efforts documentation shall be outlined in the Society P&Ps.
- 3.3.6 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.
- 3.3.7 Vacancies – In the event that an appointed officer position is vacated before the full term is completed, the position shall be filled by action of the BoG upon recommendation by the President. In filling vacancies for unexpired terms, an appointed officer who has served more than half a term in an office is considered to have served a full term.

3.4 Members of ComSoc Assemblies

- 3.4.1 For those appointed as voting members (with the exception of the Chair) of ComSoc Boards or Standing Committees as listed in these Bylaws:
 - the maximum consecutive terms of service in the same position shall be two;
 - the maximum number of consecutive years in any position of that assembly shall be six.
- 3.4.2 Vacancies – In the event that an appointed assembly member position is vacated before the full term is completed, the position shall be filled in the same manner as the original appointment as defined in these Bylaws. In filling vacancies for unexpired terms, an assembly member who has served more than half a term in a position is considered to have served a full term.

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, including standardization activities. The VP-TEA shall also be responsible for promoting technical activities of interest to academia, industry, government, and standards stakeholders, including scientists, industrial researchers, practitioners, managers, executives, young professionals, and other professionals.

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

- Educational Services Board
- Industry Communities Board

- Standardization Programs Development Board
- Standards Development Board
- Technical Committees Board
- Communications History Standing Committee
- Distinguished Lecturers' Selection Standing Committee
- Emerging Technologies Standing Committee
- Technical Committees/Industry Communities 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; iii) relations with other IEEE and professional societies worldwide; and iv) in collaboration with TEA, fostering and implementing technical activities and services that are of interest to academia, industry, government, and standards stakeholders, including scientists, industrial researchers, practitioners, managers, executives, young professionals, and other professionals.

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

- Industry Outreach Board
- Member Services Board
- Asia/Pacific Region Board
- Europe, Middle East & Africa Region Board
- Latin America Region Board
- North America Region Board
- Women in Communications Engineering Standing Committee
- Young Professionals Standing Committee

4.3 Members-at-Large (MaLs) – Responsibilities

- 4.3.1 Members-at-Large represent all Society members in the conduct of Society business, reviewing, discussing, proposing, and acting upon a wide range of items affecting the Society.
- 4.3.2 Members-at-Large are responsible for:
- Attending and actively participating in regular and special meetings of the Board of Governors and OpCom (if appointed).
 - Preparing for all meetings to facilitate discussion and required decisions.
 - Making themselves available to Society members for dialog regarding Society issues.
 - Sharing with other BoG members questions/concerns/suggestions that are conveyed to them by Society members.

ARTICLE 5 – THE BOARD OF GOVERNORS (BoG)

- 5.1 As stated in the ComSoc Constitution, 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 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)
- 5.3 The BoG shall hold at least two regular in-person meetings annually. Normally, these meetings shall be held at ICC and GLOBECOM.
- 5.4 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.

- 5.5 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 (OpCom)

- 6.1 OpCom shall be a standing committee of the BoG and its P&Ps shall be included in the Society P&Ps.
- 6.2 OpCom's role is to oversee the implementation of the Society's strategic plans including establishing priorities and guidelines for execution.
- 6.3 Between BoG meetings, OpCom conducts business on behalf of the BoG and is comprised of a subset of the BoG members. OpCom approved actions shall become effective immediately if within the scope of the delegations assigned by the BoG to OpCom. Actions not within such delegation shall be submitted to the BoG for approval in the consent agenda or for further consideration at its next meeting. If four voting members of the BoG wish to rescind a motion approved at OpCom, they shall notify the BoG within one week from the distribution of the list of motions passed at the OpCom meeting. In such case, execution of the OpCom motion shall be delayed until the matter is discussed and voted upon at a BoG special or regular meeting.
- 6.4 The responsibilities under the entire BoG and those delegated to OpCom shall be specified in the Bylaws. The BoG delegates to OpCom the authority to act on the matters specified below and only those:
- Authorize any action made in the areas already delegated to the various VPs/Councils and also authorize cross-area initiatives, up to the expenditure limit of \$50k.
 - Prepare Operating Plans for achieving tactical objectives in the implementation of the BoG-approved strategic plans.
 - Establish the priorities of Society programs and projects, as needed, in the implementation of the Society Operating Plans.
 - Provide input to the goal setting and performance evaluation processes of the ComSoc Staff Executive Director through the Managing Director – Technical Activities, and propose revisions of those goals, in compliance with IEEE procedures, to achieve the Society tactical and strategic goals.
 - Selects the awardee for the IEEE Communications Society Board of Governors Carole Swaim Distinguished Staff Award.
- 6.5 OpCom voting members shall be:
- President

- President-Elect (odd-numbered years), immediate Past President (even-numbered years)
 - Vice Presidents
 - BoG Members-at-Large (three) appointed as follows: each year, the President shall appoint one BoG MaL for a 3-year term chosen among the first-year MaLs.
 - IEEE Division III Delegate/Director
- 6.6 OpCom non-voting members shall be:
- Chief Information Officer
 - Chief Marketing Officer
 - Treasurer
 - Society Parliamentarian
 - Society Executive Director
- 6.7 OpCom shall normally hold the following meetings and the OpCom P&Ps shall specify the priorities to be addressed:
- March/April (in-person)
 - July/August (teleconference)
 - September/October (in-person)
- 6.8 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.
- 6.9 The President shall report at BoG meetings the main decisions made at previous OpCom meetings and their rationale.
- 6.10 Every three years, the BoG shall either reaffirm the existing delegations or amend them as necessary.

ARTICLE 7 – OPERATIONS IN SOCIETY ASSEMBLIES (BoG/Councils/Boards/Committees)

- 7.1 A majority of the voting members of a Society assembly constitutes a quorum.
- 7.2 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.
- 7.3 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.
- 7.4 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.
- 7.5 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.
- 7.6 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.
- 7.7 Minutes of a BoG and OpCom meeting shall be distributed to the BoG within 45 and 30 days of the meeting, respectively. A list of motions passed at each BoG and OpCom meeting shall be made available to the BoG within one week of the BoG/OpCom meeting.
- 7.8 Executive sessions shall be conducted according to IEEE Bylaws and Robert's Rules of Order. The Chair may appoint a secretary for taking minutes of the executive session. Executive session minutes shall be kept on file in a secure location at Society Headquarters.
- 7.9 Members of BoG and OpCom shall receive notice of their regular meetings at least 21 days prior to the scheduled meeting start date.
- 7.10 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.

- 7.11 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.
- 7.12 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.
- 7.13 Proxy voting is not allowed.
- 7.14 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.
- 7.15 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.
- 7.16 A Management Retreat may be held annually at the discretion of the President.
- 7.17 Assembly members shall adhere to assembly decisions, unless such decisions violate IEEE or Society Constitutions, Bylaws or Policies.
- 7.18 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.
- 7.19 Constitution, Bylaws, and P&Ps of the Society shall be in accordance with the IEEE Governing documents.
- 7.20 Proposed amendments to Society governing documents requiring BoG approval shall be submitted to the Governance Committee for review by the deadline set by the Governance Committee Chair in consultation with the Society President.

The deadline shall be at least 30 days (but no more than 60 days) prior to the BoG meeting. The established deadline shall be announced as early as possible but no later than 30 days prior to the deadline. When appropriate, the motion shall be revised based on feedback from the Governance Committee. The Governance Committee shall submit the final version of the motion to the BoG at least two weeks prior to the BoG meeting. Additional details of this process shall be specified in the BoG P&Ps.

Proposed amendments to Society Policies and Procedures that do not require BoG or OpCom approval shall be approved by the appropriate assembly, then reviewed, and revised, if needed, by the Governance Committee prior to their inclusion in the Society Policies and Procedures.

ARTICLE 8 – PROFESSIONAL STAFF

- 8.1 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.
- 8.2 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.
- 8.3 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.
- 8.4 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, and Member and Global Activities. Directors of Boards and Chairs of Standing Committees reporting to a Council shall be ex-officio voting members of that Council together with the Council Chair. Additional voting members may be specified in the Council description clause 9.4, and their term shall be concurrent with the nominal term of the President. 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. The Vice Chair of the Council shall be the Distinguished Lecturer Selection Committee Chair.
 - 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, and Society regions.

ARTICLE 10 – TECHNICAL COMMITTEES AND INDUSTRY COMMUNITIES

10.1 Technical Committees (TCs)

10.1.1 Technical Committees are established to promote technical activities in the fields of interest of the Society and to position ComSoc as the leading technical organization for communication professionals. Technical Committees shall also support Society technical activities in the areas of conferences, publications, standards, education, and history. TCs report to the Technical Committees Board.

Technical Committees shall have at least a Chair, Vice-Chair, and a Secretary and all shall be elected by the TC membership. TC membership shall be defined in the Technical Committees Board P&Ps.

Technical Committees may have Subcommittees and Special Interest Groups (SIGs). Chairs of Subcommittees and SIGs shall be appointed by the TC Chair. Further details on the role and responsibilities of TCs and SIGs shall be specified in the Technical Committees Board P&Ps.

10.1.2 Technical Committees may be created, merged, modified, recertified, or dissolved by resolution of the TEA-C, as necessary to ensure the continued relevance and effectiveness of the Society TCs. Proposals to create/merge/modify/dissolve TCs shall be sent to the VP-TEA for consideration and approval by the TEA-C. 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.

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 Technical Committees Board P&Ps. P&Ps shall be developed by the Technical Committee and approved by the Technical Committees Board.

10.1.4 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.

10.1.5 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 (ICs)

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 Proposals to create/merge/modify/dissolve ICs shall be sent to the VP-TEA for consideration and approval by the TEA-C.

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)
 - Industry Outreach Board
 - Member Services Board
 - AP Region Board
 - EMEA Region Board
 - LA Region Board
 - NA Region Board
- Publications Council (PUB-C)
 - Journals Board
 - Magazines Board
 - Online Content Board
- Technical and Educational Activities Council (TEA-C)
 - Educational Services Board
 - Industry Communities Board
 - Standardization Programs Development Board
 - Standards Development Board
 - Technical Committees Board

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

Board membership and members' terms shall be defined in the Bylaws, in the Board's description. 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 conferences financially sponsored or co-sponsored by ComSoc (namely, 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 conferences financially sponsored or co-sponsored by ComSoc (namely, Portfolio Conferences).

Member 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 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 shall 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.

11.5.5 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.

11.5.6 Journals – This Board is responsible for the oversight of Society journals. Board members are the Editors-in-Chief of Society journals (ex-officio) for which ComSoc is the Managing Partner and/or has a majority financial stake, and up to two Members-at-Large, in addition to the Director.

11.5.7 Magazines – This Board is responsible for the oversight of Society magazines. Board members consist of the Editors-in-Chief of Society magazines (ex-officio) and up to two Members-at-Large, in addition to the Director.

11.5.8 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.

11.5.9 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, and MGA Councils; the CIO; and up to three additional Members-at-Large.

- 11.5.10 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.

- 11.5.12 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. The Vice President – Technical and Educational Activities shall be an ex-officio voting member of the Standardization Programs Development Board.

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

In addition to the Director, the number of voting members on this board shall be equal to or less than the number of the Standards Committees created by COM/SDB plus up to five Members-at-Large. The Director shall appoint members to serve giving priority first to the Chairs of the Standards Committees created by COM/SDB and then to ComSoc volunteers with current or recent IEEE standards experience.

The Director shall be the official ComSoc liaison to the IEEE Standards Association Standards Board (SASB). The Vice President – Technical and Educational Activities shall be an ex-officio voting member of the Standards Development Board.

- 11.5.14 Technical Committees – This Board is responsible for the oversight and promotion of the technical committees of the Society and their activities including the promotion of technical content and the support of technical activities across the Society.

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.

ARTICLE 12 – STANDING COMMITTEES

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

● Awards	BoG
● Fellow Evaluation	BoG
● Finance	BoG
● Governance	BoG
● Information Technology	BoG
● Marketing Committee	BoG
● Nominations & Elections	BoG
● Operating (OpCom)	BoG
● Operations & Facilities	BoG
● Strategic Planning	BoG
● Technology Evolution & Initiatives	BoG
● GLOBECOM/ICC Management & Strategy	CON-C
● GLOBECOM/ICC Technical Content	CON-C
● Women in Communications Engineering	MGA-C
● Young Professionals	MGA-C
● Communications History	TEA-C
● Distinguished Lecturers' Selection	TEA-C
● Emerging Technologies	TEA-C
● Technical Committees/Industry Communities Recertification	TEA-C

12.2 Standing Committee Chairs shall be responsible for appointing Standing Committee members with the approval of the sitting 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.

Committee membership and members' terms shall be defined in the Bylaws, in the Committee's description. 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 Committee is aligned) or the BoG (for standing committees reporting to the BoG). 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. 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. This Committee shall collaborate with the Technical Committees in promoting technical activities in support of academia and industry in the areas of the Society's Emerging Technology Initiatives.

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 technical evaluation of Fellow nominations being considered by the IEEE Fellow Committee. It consists of a Chair and 18 members and all are voting members. The Chair shall serve a term of two years, concurrent with the

nominal term of the President, and the Committee members shall serve three-year terms with one-third of the members being appointed each year. Non-voting members shall not be appointed to the committee. The Chair and committee members shall be IEEE Fellows and Members of the Society.

- The Chair and the Vice Chair (if any) shall be appointed by the BoG upon recommendation of the President-Elect. The ComSoc FEC Chair should preferentially be selected among current or recent committee members. Eligibility criteria for members of the ComSoc FEC are specified in the Operations Manual of the IEEE Fellow Committee.
- Committee members shall be appointed by the Chair with the concurrence of the President. In appointing voting members, due attention should be given to ensuring broad diversity with respect to factors such as technical field of expertise, geographic location, professional affiliation, gender, and nomination category under which the members were elevated to Fellow grade.
- As specified in the Operations Manual of the IEEE Fellow Committee, the Chair shall not serve for more than two consecutive years and members (including Vice Chairs, if any) shall not serve for more than three consecutive years. Any member shall not serve for more than five consecutive years, regardless of the position held.
- As specified in the Operations Manual of the IEEE Fellow Committee, by January 31st of each year, the President shall inform the IEEE Fellow Committee Chair, Vice Chair, and the Fellow Activities Staff of:
(a) the name of the ComSoc FEC Chair, and (b) the complete roster of the ComSoc FEC.

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 the OpCom representative from each Member-at-Large class. The President, upon recommendation of the Treasurer, may appoint up to four additional voting members, who shall be ComSoc Members and shall not be sitting members of the BoG. The additional members shall serve three-year staggered terms with one reappointment allowed. The Society Executive Director and the Society Staff Finance Director shall be ex-officio non-voting members 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 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 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 (appointed by the BoG upon recommendation of the President for terms beginning in odd-numbered years or upon recommendation of the President-Elect for terms beginning in even-numbered years), 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 Information Technology – The Committee is responsible for the planning and oversight of ComSoc's IT initiatives and special projects to ensure that they follow a well-developed long-term strategy, are consistent with ComSoc's mission, and meet the important needs of ComSoc. The Committee shall develop and maintain an up-to-date BoG-approved IT long-term strategic plan. The committee shall prioritize and oversee the implementation of ComSoc's IT initiatives and special projects in ways that are timely, cost effective, efficient, and compatible with the interest and evolution of ComSoc

and IEEE. Inputs and requests to this committee may originate from within ComSoc or as a result of IEEE or Legal requirements.

The Chief Information Officer shall serve as the IT Committee Chair. Voting Members shall be:

- Chief Marketing Officer
- Treasurer
- 4 Members-At-Large (MAL):
 - One Member from the Conference Operations Board, appointed by the VP-CON
 - One Member from the Online Content Board, appointed by the VP-PUB
 - One Member from the Technical & Educational Activities Council, appointed by the VP-TEA
 - One member of the MGA Council, appointed by the VP-MGA

The four Members-At-Large (MAL) shall serve 3-year staggered terms. Such staggering shall be created by appointing members to terms shorter than three years, as indicated at the time of their appointment.

12.5.11 Marketing – This Committee oversees ComSoc’s marketing programs and is chaired by the Chief Marketing Officer. The Marketing Standing Committee works in collaboration with the Marketing staff for strategizing, planning and implementing the BoG-approved marketing plan. Responsibilities include exploration and adoption of emerging digital media; use of social platforms; the ComSoc website; creation, communication, and implementation of a strategic roadmap for innovative marketing; and related 3rd party efforts.

Committee membership is as follows: Chief Marketing Officer (Chair), one representative from each of the four Councils, and 6 Members-at-Large. The ComSoc Staff Marketing Director is an ex-officio non-voting member of the Committee. At the Chair’s discretion, a Vice Chair may be appointed from amongst the committee members.

12.5.12 Nominations & Elections – This Committee is responsible for recommending to the BoG candidates to fill elected Society office positions, and for the development, implementation, and supervision of election procedures. For each position, there shall be documentation attesting that an earnest effort was made to identify a diverse set of qualified candidates and that no discrimination was made pursuant to IEEE Policy 9.2.6. The process for preparing and submitting the Diversity Efforts documentation shall be outlined in the Society P&Ps. 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 Past 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). In the event of the incapacity or conflict of interest of the Chair, the most recent Past Chair of the Nominations & Elections Committee available shall be the Chair. With

extenuating circumstances, a different individual may be appointed to this position 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 NEC Chair, 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.

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.

The Nominating Committee for the IEEE Division III Director shall be a separate Committee and shall operate as specified in the TAB Operations Manual.

12.5.13 OpCom – Between BoG meetings, OpCom conducts business on behalf of the BoG and is comprised of a subset of the BoG members. OpCom approved actions shall become effective immediately if within the scope of the delegations assigned by the BoG to OpCom. Actions not within such delegation shall be submitted to the BoG for approval in the consent agenda or for further consideration at its next meeting.

Members of the Committee shall be the President, President-Elect (odd-numbered years), immediate Past President (even-numbered years), Vice Presidents, three BoG Members-at-Large (each year, the President shall appoint one BoG MaL for a 3-year term chosen among the first-year MaLs), and the IEEE Division III Delegate/Director. Non-voting members of the Committee shall be the Chief Information Officer, Chief Marketing Officer, Treasurer, Society Parliamentarian, and the Society Executive Director.

12.5.14 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. Committee members shall be:

- CIO
- Treasurer
- Four Vice Presidents (ex-officio)
- Past President (even years)/President-Elect (odd years)
- Division III Director
- Three Members-at-Large (appointed by the President)

The Society Executive Director is an ex-officio non-voting member of this Committee.

12.5.15 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.

12.5.16 Technical Committees/Industry Communities Recertification – This Committee reviews each Technical Committee/Industry Community once every three years to ensure their continued relevance and effectiveness to the Society. Committee recommendations for recertification, modification, merging, or elimination are submitted to the TEA-C for approval.

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/Industry Communities under review shall excuse themselves from deliberations related to their Technical Committee/Industry Community.

12.5.17 Technology Evolution & Initiatives - This Committee is responsible for the oversight and management of ComSoc's involvement in external initiatives, i.e. those originated from IEEE-level or multi-Society initiatives (e.g., Multi-Society Technical Groups, IEEE Technical Communities, IEEE TAB Future Directions Committee, IEEE New Initiatives Committee, and all IEEE OUs). The Committee shall ensure that ComSoc's involvement is timely, relevant, within ComSoc's field of interest, cost effective, and compatible with the evolution of ComSoc and IEEE. The Committee shall recommend to the BoG when to terminate existing initiatives, revise existing initiative MoUs, and join/launch new initiatives.

The Committee shall also monitor ComSoc's internal initiatives, identifying gaps and opportunities, and recommending to Councils and the BoG (a) improvements of existing initiatives and (b) new initiative projects and programs consistent with ComSoc's vision, mission, and Strategic Plan.

Members of the Committee shall consist of three Members-at-Large (MALs) serving three-year staggered terms. MALs may serve a maximum of two terms. Other voting members are the Past Chair of the Committee, the Chair of the Emerging Technologies Committee, the Chair of the Strategic Planning Committee, the VP-TEA, and the Chairs or ComSoc representatives of IEEE-level or multi-Society Initiatives in which ComSoc has more than a 1/6th financial share of the ownership.

12.5.18 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 (WIE) Society Coordinator, Awards sub-committee Member-at-Large, and up to five Members-at-Large.

12.5.19 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 for initial approval by the BoG at its BoG1 meeting, and for final approval at the Special BoG meeting (if needed, as specified in the Finance P&Ps). 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 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.
- 15.4.3 The Treasurer shall periodically review the Society finances and recommend adjustments needed to insure financial stability of the Society.
- 15.4.4 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. These 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. 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.

MEMBERSHIP DEMOGRAPHICS

Where Members Live

Membership growth has been strong in the USA (Regions 1-6), 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

41.31%	USA	168 Sections
3.74%	Canada	21 Sections
18.03%	EMEA	59 Sections
3.90%	Latin/America	35 Sections
33.01%	Asia/Pacific	60 Sections

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, it provides the theoretical foundations for future development.

12.42%	Academia
2.55%	Government
16.25%	Industry
0.87%	Other
67.90%	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 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 Journal on Selected Areas in Communications***
3. ***IEEE Wireless Communications***
4. ***IEEE Communications Magazine***
5. ***IEEE Internet of Things Journal***
6. ***IEEE Network***
8. ***IEEE Transactions on Wireless Communications***
9. ***IEEE Transactions on Multimedia***

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.

MAGAZINES

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.

Data Science and Artificial Intelligence for Communications: The objective of this Series is to provide a forum across industry and academia to advance the development of network and system solutions using data science and artificial intelligence.

Design and Implementation of Devices, Circuits, and Systems: The primary goal of this Series of articles is to provide insights into the latest technological developments in devices, circuits and systems that are used in communication systems/applications of all types, from home/consumer networks to service-provider networks.

Internet of Things and Sensor Networks: This Series aims at bringing together the latest industrial and academic progress, research, and development efforts within the rapidly maturing IoT ecosystem.

Military Communications and Networks: This Series brings together the most recent advances in military communications and networks.

Mobile Communications and Networks: The scope of this Series Topic (ST) covers mobile devices and the networks that provide connectivity to them, and all related applications. This includes communication protocols, algorithms, procedures, systems or network architectures. Performance evaluation and testing of mobile and network nodes are also within this scope. The Series emphasizes novel but practical solutions and seeks to cover emerging topics of interest to industry, academia and governments.

Network Softwarization and Management: This Series Topic (ST) focuses on softwarization, management, and their integration in communication networks and their services. "Network softwarization" advocates for architectures that separate the software implementing network functions, protocols and services from the hardware running them.

Optical Communications and Networks: This Series publishes top-quality, high-impact, original and unpublished Magazine-style articles in all areas of optical communications and networking. The Series covers research, development, application, and all other aspects of this field.

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 Internet of Things Magazine: Publishes high-quality articles on IoT technology and end-to-end IoT solutions.

JOURNALS

IEEE Communications Letters: Publishes letters on the frontiers of research within the field of interest of the IEEE Communications Society.

IEEE Communications Surveys & Tutorials: A free online journal published by the IEEE Communications Society covering all aspects of the communications field.

IEEE Journal on Selected Areas in Communications: Each issue focuses in-depth attention on critical aspects of one specific communications topic. Two or more issues each year are devoted solely to the Optical Communications and Networking Series.

IEEE Networking Letters: Publishes high-quality, original research results derived from theoretical or experimental exploration of the area of communication/computer networking, covering all network layers except the physical layer, including architecture and design, protocols, control mechanisms, operations and management of access, core and edge networks.

IEEE Open Journal of the Communications Society: An Open Access journal which publishes high-quality manuscripts in a short round of review, on advances in the state-of-the-art of telecommunications systems and networks.

IEEE Transactions on Cognitive Communications and Networking: Publishes high-quality manuscripts that advance the state-of-the-art of cognitive communications and networking research.

IEEE Transactions on Communications: Publishes high-quality papers reporting theoretical and experimental advances in the general area of communications. TCOM is committed to providing a timely and rigorous peer-review process for all submitted papers.

IEEE Transactions on Green Communications and Networking: Publishes high-quality, original, and timely papers that cover the subject of energy efficiency and sustainability for communication systems and networks.

IEEE Transactions on Molecular, Biological, and Multi-Scale Communications: This journal is devoted to the principles, design, and analysis of communication systems that use physics beyond conventional electromagnetism, particularly for small-scale and multi-scale applications. This series will also examine the use of communication and information theory in biological systems.

IEEE Transactions on Network Science and Engineering: Is committed to timely publishing of peer-reviewed technical articles that deal with the theory and applications of network science and the interconnections among the elements in a system that form a network.

IEEE Transactions on Network and Service Management: Features timely electronic presentation of archival research on the management of networks, systems, services and applications, as well as on issues in communications software, service engineering, policies and business processes for network and service management.

IEEE Transactions on Wireless Communications: Publishes high-quality, peer-reviewed technical papers that advance theoretical and/or practical aspects of wireless communications.

IEEE Wireless Communications Letters: This journal publishes timely, novel and high-quality recent results on Wireless Communications in letter format. IEEE Wireless Communications Letters have a 4-page limit. The goal is rapid dissemination of original, cutting-edge ideas and timely, significant contributions in the theory and applications of wireless communications.

IEEE/ACM Transactions on Networking: This is a bimonthly archival journal reflecting the multidisciplinary nature of communications networks. IEEE/ACM Transactions on Networking is sponsored by the IEEE Communications Society, the IEEE Computer Society, and the Association for Computing Machinery (ACM).

IEEE/KICS Journal of Communications and Networks: Publishes high-quality papers that advance the state-of-the-art and practical applications of communications and information networks. Theoretical research contributions presenting new techniques, concepts, or analyses, applied contributions reporting on experiences and experiments, and tutorial expositions of permanent reference value are welcome.

IEEE/OSA Journal of Optical Communications and Networking: The scope of this journal includes advances in the state-of-the-art of optical communications and networks. Both theoretical contributions (including new techniques, concepts, and analyses) and practical contributions (including system experiments and prototypes, and new applications) are encouraged.

TECHNICALLY CO-SPONSORED PUBLICATIONS

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

IEEE Internet of Things Journal

IEEE Journal on Biomedical Health Informatics

IEEE Transactions on Cloud Computing

IEEE Transactions on Mobile Computing

IEEE Transactions on Multimedia

IEEE Transactions on Signal and Information Processing over Networks

IEEE Transactions on Smart Grid

IEEE/OSA Journal of Lightwave Technology

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 and 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 ComSoc Educational Activities Newsletter: This free, online newsletter produced by the IEEE ComSoc Educational Services Board shares the latest information on educational offerings throughout IEEE Communications Society.

COMSOC DIGITAL LIBRARY

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, one can select between ComSocDL (access to current content plus the prior 3 years and almost 50K papers!) or ComSoc DL Plus. (All legacy content from 1953 forward and almost 140K papers!)

Who should subscribe to the Communications Society Digital Library?

Researchers, practitioners, consultants, startups, regulatory officials, innovators, analysts, lawyers, and all who need full text access to the highest quality publications and conference proceedings in all fields of telecommunications. This includes: wireless communications, networking, transmission, signal processing, systems integration, fiber optics, the Internet, radio, big data, security, cognitive networks, M2M, sensors, standards, testing, green ITC, 3G, 4G, 5G, enterprise networks, tactical communications, multimedia, powerline communications, software, devices and much more.

OTHER SERVICES AND PRODUCTS

IEEE ComSoc Training - Continuing education for the Communications professional offers online and in-person training. Half-day, one-day, and multi-day training options are available. IEEE maintains an official registry of all CEUs awarded, making accounting to state licensing boards an easier task for engineers. Featured course topics include: 5G, IoT, Wi-Fi, SDN, LTE, Wireless Communications, Optical Communications, Satellites and Wireless Positioning.

IEEE ComSoc Webinars - Sponsored webinars, with audio/slide show downstream and text (for Q&A) upstream, focus on technologies, systems, products and services of current interest to both sponsors and technical/business audiences. Typically webinars run for 1 hour and cover 1 to 4 presentations and are free to the viewing audience.

Libraries - Government, institutional, and corporate libraries can purchase electronic access to ComSoc publications through several IEEE subscription options including the IEEE Communications Library. Individual papers are available for purchase electronically through *IEEE Xplore* or the Communications Society Digital Library.

COMSOC PUBLICATIONS 2021 SUBSCRIPTION RATES AT-A-GLANCE

The IEEE Communications Society embraces science, technology, applications and standard for information organization, collection and transfer using electronic, optical and wireless channels and networks, including: systems and network architecture, control and management; protocols, software and middleware; quality of service, reliability and security; modulation, detection, coding, and signaling; and more.

MEMBERSHIP OPTIONS

MEMBERSHIP OPTIONS	IEEE MEMBER	IEEE STUDENT
PREFERRED MEMBERSHIP PACKAGE Includes: <ul style="list-style-type: none"> • <i>IEEE COMMUNICATIONS MAGAZINE</i> (print, electronic & digital) • <i>IEEE COMMUNICATIONS SURVEYS AND TUTORIALS</i> (electronic) • IEEE Xplore® ELECTRONIC ACCESS TO <i>JOURNAL OF LIGHTWAVE TECHNOLOGY</i>, <i>IEEE/OSA JOURNAL OF OPTICAL COMMUNICATIONS AND NETWORKING</i> 	\$71	\$36
ESSENTIAL MEMBERSHIP PACKAGE Includes: <ul style="list-style-type: none"> • All of the above publications except print <i>IEEE COMMUNICATIONS MAGAZINE</i> 	\$33	\$1

AVAILABLE TO IEEE COMSOC MEMBERS:

PACKAGE	SOCIETY MEMBER	STUDENT MEMBER	IEEE MEMBER	IEEE STUDENT
IEEE COMMUNICATIONS SOCIETY DIGITAL LIBRARY	\$178	\$89	\$490	\$245
IEEE COMMUNICATIONS SOCIETY DIGITAL LIBRARY PLUS	\$277	\$139	\$668	\$334

PUBLICATION	OPTIONS	SOCIETY MEMBER	STUDENT MEMBER	IEEE MEMBER	IEEE STUDENT
<i>CHINA COMMUNICATIONS MAGAZINE</i>	EPC	\$337	\$169	\$337	\$169
<i>IEEE COMMUNICATIONS STANDARDS MAGAZINE</i>	PRT ELE EPC	\$38 \$23 \$48	\$19 \$12 \$24	\$48 \$33 \$58	\$24 \$17 \$29
<i>IEEE NETWORK MAGAZINE</i>	ELE EPC	.\$47 \$98	\$24 \$49	\$107 \$198	\$54 \$99
<i>IEEE WIRELESS COMMUNICATIONS</i>	ELE EPC	.\$47 \$98	\$24 \$49	\$107 \$198	\$54 \$99
<i>IEEE COMMUNICATIONS LETTERS</i>	ELE	\$47	\$24	\$109	\$55
<i>COMMUNICATIONS, IEEE TRANS.</i>	ELE EPC	\$53 \$140	\$27 \$70	\$132 \$269	\$66 \$134
<i>SELECTED AREAS IN COMMUNICATIONS, IEEE JOURNAL ON</i>	ELE EPC	\$53 \$140	\$27 \$70	\$132 \$269	\$66 \$134
<i>BIG DATA, IEEE TRANS. ON</i>	EAA	\$39	\$20	\$79	\$79
<i>BIOMEDICAL AND HEALTH INFORMATICS, IEEE JOURNAL OF</i>	ELE	\$80	\$40	\$125	\$62.50
<i>CLOUD COMPUTING, IEEE TRANS. ON</i>	EAA	\$43	\$22	\$83	\$42
<i>COGNITIVE COMMUNICATIONS AND NETWORKING, IEEE TRANS. ON</i>	ELE	\$27	\$14	\$38	\$19
<i>CONTROL OF NETWORK SYSTEMS, IEEE TRANS. ON</i>	ELE	N/A	N/A	\$42	\$21
<i>GAMES, IEEE TRANS. ON</i>	PRT ELE EPC	\$54 \$34 \$68	\$27 \$17 \$34	\$68 \$44 \$80	\$34 \$22 \$40
<i>GREEN COMMUNICATIONS AND NETWORKING, IEEE TRANS. ON</i>	ELE	\$38	\$19	\$40	\$20
<i>IEEE INTERNET COMPUTING MAGAZINE</i>	PRT ELE	\$74 \$39	\$37 \$20	\$104 \$79	\$52 \$40
<i>IEEE INTERNET OF THINGS JOURNAL</i>	ELE	\$26	\$13	\$36	\$18
<i>IEEE INTERNET OF THINGS MAGAZINE</i>	PRT ELE EPC	\$43 \$28 \$53	\$22 \$14 \$27	\$53 \$38 \$63	\$27 \$19 \$32
<i>LIGHTWAVE TECHNOLOGY, JOURNAL OF</i>	PRT	\$80	\$40	\$90	\$45

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PRT = Print, ELE = Electronic, EPC = Electronic/Print, EAA= Electronic and Abstract

PUBLICATION	OPTIONS	SOCIETY MEMBER	STUDENT MEMBER	IEEE MEMBER	IEEE STUDENT
<i>MOBILE COMPUTING, IEEE TRANS. ON</i>	EAA	.\$49	\$25	\$89	\$45
<i>MOLECULAR, BIOLOGICAL, AND MULTI-SCALE COMMUNICATIONS, IEEE TRANS. ON</i>	ELE	\$26	\$13	\$37	\$14
<i>IEEE MULTIMEDIA MAGAZINE</i>	PRT ELE	\$74 \$39	\$37 \$20	\$104 \$79	\$52 \$40
<i>MULTIMEDIA, IEEE TRANS. ON</i>	ELE	\$45	\$23	\$45	\$23
<i>NETWORK SCIENCE AND ENGINEERING, IEEE TRANS. ON</i>	ELE	\$34	\$17	\$65	\$33
<i>NETWORK AND SERVICE MANAGEMENT, IEEE TRANS. ON</i>	ELE	\$39	\$20	\$121	\$61
<i>NETWORKING, IEEE/ACM TRANS. ON</i>	ELE	\$42	\$21	\$42	\$21
<i>IEEE NETWORKING LETTERS</i>	ELE	\$28	\$14	\$38	\$19
<i>OPTICAL COMMUNICATIONS AND NETWORKING, IEEE/OSA JOURNAL OF</i>	PRT	\$72	\$36	\$107	\$54
<i>IEEE REVIEWS IN BIOMEDICAL ENGINEERING</i>	ELE	N/A	N/A	\$60	\$30
<i>SIGNAL AND INFORMATION PROCESSING OVER NETWORKS, IEEE TRANS. ON</i>	ELE	\$28	\$14	\$38	\$19
<i>SMART GRID, IEEE TRANS. ON</i>	PRT ELE EPC	\$110 \$40 \$132	\$55 \$20 \$66	\$169 \$75 \$194	\$169 \$38 \$194
<i>SUSTAINABLE COMPUTING, IEEE TRANS. ON</i>	EAA	\$43	\$22	\$83	\$42
<i>WIRELESS COMMUNICATIONS, IEEE TRANS. ON</i>	ELE EPC	\$49 \$127	\$25 \$64	\$108 \$219	\$54 \$110
<i>IEEE WIRELESS COMMUNICATIONS LETTERS</i>	ELE	\$20	\$10	\$39	\$20

Electronic products unless specified available at www.ieee.org/ieeexplore
PRT = Print, ELE = Electronic, EPC = Electronic/Print, EAA= Electronic and Abstract

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