Radio Communications Committee (RCC) Meeting
November 19, 2021 – Virtual Meeting

IEEE COMMUNICATIONS SOCIETY
Radio Communications Committee (RCC)

IEEE GLOBECOM 2021
Virtual Conference

November 19, 2021
9:00 AM EAST – 2:00 PM GMT – 10 PM CST

Chair: Jemin Lee
Vice Chair: Julian Cheng
Secretary: Enrico Paolini

http://rc.committees.comsoc.org
Radio Communications Committee (RCC) Meeting

November 19, 2021 – Virtual Meeting

Agenda

1. Welcome
2. Approval of Agenda
3. General Information of RCC
4. Approval of ICC’21 RCC Meeting Minutes (available on the website)
5. Conferment of 2021 IEEE ComSoc RCC Technical Recognition Award
6. Report on RCC Special Interest Groups (SIGs)
7. Report on Conference/Workshop/Standardization Activities
8. Report on Communication Technology May Change the World Student Competition
9. Report on RCC Activities
10. Next RCC Meeting
11. Adjourn
RCC Mission

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

- **RCC Meetings**
  - Twice per year at ICC and Globecom
  - Open to all ComSoC members

- **Becoming RCC Member**
  - Just subscribe to RCC mailing list:
    https://rc.committees.comsoc.org/mailing-list/
  - Current members: 1243+

- **Becoming Active RCC Member**
  - Need to attend (physically present or by telephone) at least 2 of 5 prior RCC meetings at ICC/Globecom
  - Need to provide significant service to RCC: past Officer of the TC; TC representative for IEEE ComSoc flagship conferences (ICC and Globecom); and recipients of TC award.
RCC Officers (2021-2022)

- **Chair: Jemin Lee**
  - Sungkyunkwan University (SKKU)
  - Email: jemin.lee@skku.edu

- **Vice-Chair: Julian Cheng**
  - University of British Columbia (UBC)
  - Email: julian.cheng@ubc.ca

- **Secretary: Enrico Paolini**
  - University of Bologna
  - Email: e.paolini@unibo.it
Radio Communications Committee (RCC) Meeting
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Approval of ICC’21 RCC Meeting Minutes
available at http://rc.committees.comsoc.org

Welcome

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

Join the RCC by filling out the below form:
https://www.comsoc.org/form/comsoc-technical-committee-member
2021 IEEE ComSoc RCC Technical Recognition Award

The Radio Communications Committee (RCC) Technical Recognition Award aims to promote radio communications research and development activities in both the academic and industrial community. This award is established as part of the RCC activities in which research and development takes place in areas related to radio communications. The award recognizes members of the IEEE Communications Society (ComSoc) who have made outstanding contributions to the technological advancement of radio communications.

Award Committee (2021-2022):
• Hanna Bogucka (Chair)
• Jack Winters
• Marco Chiani
• Hyundong Shin
• Julian Cheng
Conferment of

2021 IEEE ComSoc RCC Technical Recognition Award

George K. Karagiannidis

for outstanding contribution to wireless communication systems
IEEE COMMUNICATIONS SOCIETY
Radio Communications Technical Committee

2021 TECHNICAL RECOGNITION AWARD

PRESENTED TO

George K. Karagiannidis

FOR OUTSTANDING CONTRIBUTION TO WIRELESS COMMUNICATION SYSTEMS

Vincent Chan, President, IEEE Communications Society

Stefano Galli, VP - Technical and Educational Activities, IEEE Communications Society
Special Interest Groups (SIGs) in RCC

(SIG Websites: https://rc.committees.comsoc.org/sig)

- Wireless Localization (Chair: Stefania Bartoletti)
- Propagation Channels for 5G and Beyond (Chair: Andreas Molisch)
- Integration of Sensing and Communications (Chair: Tingting Zhang)
- Terahertz Communications (Chair: Hina Tabassum)
SIG: Wireless Localization

- Committees:
  - Chair: Stefania Bartoletti (IEIIT-CNR and CNIT, stefania.bartoletti@cnr.it)
  - Vice-chairs: Javier Prieto, Anna Guerra, Santiago Mazuelas

- Technical Scope:
  - The goal of the SIG is to solicit the development of new positioning strategies that leverage the wealth of wireless communication technologies as well as of new location-aware procedures to enhance the efficiency of communication networks.

- Activities:
  - 9th “Workshop on Advances in Network Localization and Navigation (ANLN)” in IEEE Globecom 2021, Madrid
  - Special Session: Special Session on Network Localization and Navigation in Challenging Wireless Environments, MILCOM 2021
  - “Workshop on synergies of communication, localization, and sensing towards 6G” at IEEE ICC 2022, Seoul, South Korea

Please contact Chair and Vice-chair for your participation!
SIG: Wireless Localization

- **Workshop Organized by RCC:** 9th Workshop on Advances in Network Localization and Navigation (ANLN), IEEE Globecom 2021
  - December 7 - 11 2021, Madrid, Spain
- **Co-Chairs:**
  - Stefania Bartoletti (IEIIT-CNR and CNIT, Italy stefania.bartoletti@unife.it)
  - Andrea Giorgetti (Univ. of Bologna, Italy a.giorgetti@ieee.org)
  - Takai Eddine Kennouche, (VIAVI Solutions, France takaieddine.kennouche@viavisolutions.com)
  - Mohammad Javad Khojasteh (MIT, USA khojasteh@ieee.org)
- Organized in collaboration with H2020 project LOCUS [https://www.locus-project.eu/](https://www.locus-project.eu/)
SIG: Wireless Localization

- Workshop Organized by RCC: Special Session on Network Localization and Navigation in Challenging Wireless Environments, MILCOM 2021
  - 29 November–2 December 2021 // San Diego, CA, USA
  - Website: https://milcom2021.milcom.org/authors/call-papers
  - Chairs: Moe Z. Win and Andrea Conti
SIG: Wireless Localization

- **Workshop on Synergies of Communication, Localization, and Sensing towards 6G at IEEE ICC 2022, Seoul, South Korea**
  - December 7 - 11 2021, Madrid, Spain

- **Co-Chairs:**
  - Henk Wymeersch, Chalmers University of Technology, Sweden, henkw@chalmers.se
  - Stefania Bartoletti, CNR and CNIT, Italy, stefania.bartoletti@cnit.it
  - Liesbet Van der Perre, KU Leuven, Belgium, liesbet.vanderperre@kuleuven.be
  - Angeliki Alexiou, University of Piraeus, Greece, alexiou@unipi.gr, aalexiou@ieee.org
  - George C. Alexandropoulos, National and Kapodistrian University of Athens, Greece, alexandg@di.uoa.gr

SIG: Wireless Localization

Best Readings

- Website: [www.comsoc.org/best-readings](http://www.comsoc.org/best-readings)
- List of papers (w/commentary and hyperlinks) online.
- Topics such as power line communications; cognitive radio; broadband access; green communications; multi-tier cellular networks

- New Best Readings on **Network Localization and Navigation** proposed by RCC

- Editorial members:
  - Michael Buehrer (Virginia Tech),
  - Santiago Mazuelas (BCAM),
  - Yuan Shen (Tsinghua University)

SIG: Propagation Channels for 5G and Beyond

• Committees
  ▪ Chair: Andreas Molisch (USC, molisch@usc.edu)
  ▪ Vice-chair: Dajana Cassioli (University of L'Aquila, dajana.cassioli@univaq.it)

• Motivation:
  ▪ Propagation channels are basis on which systems are designed and tested
  ▪ Need to account for new deployment scenarios and frequency ranges
  ▪ 5G and B5G have many scenarios that are insufficiently covered (e.g., mm-wave V2V, UAV channels, THz, Cloud-RAN channels, factory IoT channels, ...)

• Goals for SIG:
  ▪ Establishment of webpage for information exchange, pointing to new papers
  ▪ Organization of tutorials and lectures
  ▪ Organization of workshops/symposia at ComSoc conferences

Please contact Chair and Vice-chair for your participation!
SIG: Propagation Channels for 5G and Beyond

- Upcoming activity: plan for workshop at ICC 2022
  - Call for workshop organizers
    - Chair: Camillo Gentile, NIST
    - Call for papers is out – please submit
    - Steering committee (ex officio): A. Molisch (USC), D. Cassioli (Univ. l’Aquila)
    - Following a successful first workshop at Globecom 2020

- Other activities
  - Liaison with NIST mmWave channel alliance (A. Molisch): ongoing
  - Main activity of alliance: comparison of different high-resolution parameter extraction methods; work on “best practices” for sounder calibration.
  - New ComSoc level group for standardization of channel models for Beyond 5G. Please contact A. Molisch for participation
SIG: Integration of Sensing and Communications (ISC)

• Committees:
  ▪ Chair: Tingting Zhang (Harbin Institute of Technology, zhangtt@hit.edu.cn)
  ▪ Vice-chair: Pan Cao (University of Hertfordshire, UK)

• Motivations:
  ▪ The integrated sensing and communication (ISC) system to realize joint the environment sensing and communication, by sharing the same frequency, time and hardware.
  ▪ Topics: Integration of comm and localization, radar detection and imaging, UWB, mobile network aided sensing, and so on.
  ▪ We are also interested in the industrial collaborations, including the standard contributions, prototype implementations, etc.

Please contact Chair and Vice-chair for your participation!
SIG: Integration of Sensing and Communications (ISC)

• Past activities:
  ▪ Panel Discussion in main stream IEEE conferences (WCNC 2021)
  ▪ Feature Topics on “Location Awareness for 5G and Beyond” in IEEE Communications Magazine

• Coming activities:
  ▪ Special Issue on “Integration of radar sensing, localization and communications (ISLC)” on EURASIP Journal on Wireless Communications and Networking (Under review);
  ▪ Special Issue on IEEE IOT Journal (Under preparation)

• Other activities:
  ▪ Online seminars on ISC (soon)
  ▪ Possible workshop and session organization along with IEEE conferences
SIG: Terahertz Communications

- **Officers:**
  - **Chair:** Hina Tabassum (York University, Canada)
  - **Vice-chairs:**
    - Chong Han (Shanghai Jiao Tong University, China)
    - Josep M. Jornet (Northeastern University, USA)
    - Gianni Pasolini (University of Bologna, Italy)
  - **Media chair:** Arjun Singh (Northeastern University, USA)

- Established in June 2021
- Webpage published in July 2021:
  - [https://sites.google.com/view/ieee-comsoc-rcc-sig-thz/home](https://sites.google.com/view/ieee-comsoc-rcc-sig-thz/home)

Please contact any of the officers or fill the registration form on the website for your participation!
SIG: Terahertz Communications

SIG Goals:

- To become the unifying forum of discussion for all the aspects relating to THz communications, from device technologies to radio propagation and communication systems design.
- To provide a one-stop-shop for the wireless research community, where to find key resources and pointers to relevant THz materials, helping any researcher to join and contribute to this exciting field.
- To organize convened sessions and workshops as well as special issues in IEEE conferences and journals.
- To promote and support standardization activities on THz communications in 6G and beyond worldwide.
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SIG: Terahertz Communications

- Past Activities (July 2021 – November 2021)
  - **Seminars (Hosted):**
    - Inaugural Seminar (August 11, 2021):
    - Second Seminar (November 17, 2021):
      “6G Wireless and THz Communications,” by Dr. Wen Tong, CTO Huawei Wireless.
  - **Seminars (sponsored):**
SIG: Terahertz Communications

- Past Activities (July 2021 – November 2021)
  - **Workshops (lead organizer):**
    - Fifth IEEE International Workshop on Terahertz Communications, IEEE International Conference on Communications (ICC 2022)
  - **Tutorials/short courses:**
    - “Terahertz Communications for 6G and Beyond Era,” Half-day Course, VTC2021-Fall.
  - **Recruiting:**
    - Created Core Members team and mailing list (77 registered members)
    - Created General mailing list
SIG: Terahertz Communications

- Planned Activities (continuing):
  - Organize invited seminars (every three months)
    - Sponsor external related seminars (on a solicitation basis)
  - Organize workshop along with mainstream IEEE conferences
    - Sponsor external related workshops (on a solicitation basis)
  - Organize tutorials and panels along with mainstream IEEE conferences
  - Maintain and update the recommended readings section
    - In progress: Create an official IEEE ComSoc Best Readings for THz Communications
Conference Reports

- **ICC 2021**: Chia-Han Lee (WC), Hesham Elsawy (MWN)
- **GLOBECOM 2021**: Andrea Giorgetti (WC), Chenghao Qi (SPC)
- **ICC 2022**: Giovanni Geraci (WC), Yuan Shen (SPC), Chia-Han Lee (CRAIN)
- **GC 2022**: Theodoros Tsiftsis (WC), Enrico Paolini (CT)
GC 2021 – Wireless Communications Symposium

Where: Madrid, Spain / Hybrid

Symposium: Wireless Communications
Co-chairs: Abla Kammoun, Andrea Giorgetti, Koji Yamamoto, Stefano Tomasin, Cong Shen

RCC representative: Andrea Giorgetti (andrea.giorgetti@unibo.it)

Total Submissions: 262
Avg number of reviews/TPC member = 4

#TPC members: 241
Avg number of reviews/paper >3

Keyonte speakers: A. Goldsmith, A. Kandhadai, A. F. Molisch, S. Parolari, R. Perlman
GC 2021 – Signal Processing for Communications

When: Dec. 07, 2021 – Dec. 11, 2021
Where: Madrid, Spain / Hybrid

Symposium: Signal Processing for Communications
Co-chairs: Chenhao Qi, Zhijin Qin, Cenk Gursoy

RCC representative: Chenhao Qi (qch@seu.edu.cn)

Total Submissions: 127
Total Accepted: 52 Acceptance Rate: 40.9%
#TPC members: 110 Avg number of reviews/paper = 3.34 (at least 3 reviews/paper)

11 oral sessions (8 sessions with 5 papers, 3 sessions with 4 papers)
ICC 2022 – Wireless Communications Symposium

When: May 16, 2022 – May 20, 2022
Where: Seoul, South Korea / Hybrid

Symposium: Wireless Communications
Co-chairs: Wenchi Cheng, Sinem Coleri, Giovanni Geraci, Ismail Guvenc, David Love

RCC representative: Giovanni Geraci (giovanni.geraci@upf.edu)

Total Submissions: 317
Target avg number of reviews/TPC member = 6.1

#TPC members: 331
Target avg number of reviews/paper = 5.9

Keyonte speakers: Yonina Eldar (Weizmann), Sunghyun Choi (Samsung), Mung Chiang (Purdue), Byoung-Hoon Kim (LG), John E. Smee (Qualcomm), Xinhui Wang (ZTE).
ICC 2022 – Signal Processing for Communications

When: May 16, 2022 – May 20, 2022  
Where: Seoul, South Korea / Hybrid

Symposium: Signal Processing for Communications
Co-chairs: Liesbet Van Der Perre, Nan Yang, Yuan Shen

RCC representative: Yuan Shen (shenyuan_e@tsinghua.edu.cn)

Total Submissions: 147  
Target avg number of reviews/TPC member = 5 (expected)

#TPC members: 177  
Target avg number of reviews/paper = 4 (expected)

Keyonte speakers: Yonina Eldar, Sunghyun Choi, Mung Chiang, Byoung-Hoon Kim, John E. Smee, Xinhui Wang
ICC 2022 – Cognitive Radio & AI-enabled Networks

When: May 16, 2022 – May 20, 2022
Where: Seoul, South Korea / Hybrid

Symposium: Cognitive Radio & AI-enabled Networks
Co-chairs: Ning Zhang and Chia-Han Lee

RCC representative: Chia-Han Lee, chiahan@nycu.edu.tw

Total Submissions: 109
#TPC members: 197

Target avg number of reviews/TPC member = 5
Target avg number of reviews/paper = 4

Keyonte speakers: Yonina Eldar, Sunghyun Choi, Mung Chiang, Byoung-Hoon Kim, John E. Smee, Xinhui Wang
GC 2022 – Wireless Communications

When: Dec. 04, 2022 – Dec. 08, 2022
Where: Rio de Janeiro, Brazil

Symposium: Wireless Communications

Co-chairs:
- Melike Erol-Kantarci, University of Ottawa, Canada, melike.erolkantarci@uottawa.ca
- Haixia Zhang, Shandong University, China, haixia.zhang@sdu.edu.cn
- Theodoros Tsiftsis, Jinan University, China, theo_tsiftsis@jnu.edu.cn
- Sami Muhaitat, Khalifa University, UAE, muhaitat@ieee.org
- Haibo Zhou, Nanjing University, China, haibozhou@nju.edu.cn

RCC representative(s): Theodoros Tsiftsis, Jinan University, China, theo_tsiftsis@jnu.edu.cn

Expected number of submissions: 260/270 (based on ICC 2021 and GC 2021)
Number of TPC members that have accepted to serve: 255 (as of Nov. 9, 2021 – target 400)
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GC 2022 – Communication Theory Symposium

When: Dec. 04, 2022 – Dec. 08, 2022
Where: Rio de Janeiro, Brazil

Symposium: Communication Theory
Co-chairs: Mark Flanagan (University College Dublin, Ireland), Ayfer Ozgur (Stanford University, USA), Enrico Paolini (University of Bologna, Italy)

RCC representative(s): Enrico Paolini (e.paolini@unibo.it)

Expected number of submissions: 140/150
Number of TPC members that have accepted to serve: 135 (as of Nov. 15, 2021)
Target number of TPC members: 140/150

http://rc.committees.comsoc.org
ComSoc Standards Board Technical Committee Liaisons Report

RCC Standard Liaisons Officer: George Chrisikos (gchrisikos@ieee.org)

- ComSoc SB Objective:
  - Discussion of IEEE/ComSoc Standards Development Projects
  - New Standardization Initiatives
  - Procedures
  - Operational Issues
  - In partnership with the IEEE-SA Standards Board
Communication Technology May Change the World Student Competition 2021

RCC representative: Tingting Zhang

The competition Communication Technology May Change the World, by the IEEE Communications Society – Member Relations, recognizes students or teams of students who demonstrate the capacity to improve the lives of people, through the application of communication technology and the development of projects that meet the human needs of people. [http://www.comsoc.org/communications-technology-changing-world](http://www.comsoc.org/communications-technology-changing-world)

- **Number of eligible submissions:**

- **First Phase of the review process has been competed.**
  - Top 14 projects ranked in phase 1 are chosen as candidates for the first and second prizes.
TOP FOUR PROJECTS IN FIRST PHASE

WiVi-Pass: A wireless-visual cross-correlated presence system for Covid-Pass entrance management
HUANG Yunfeng, TU Dortmund University Germany

Magdroid: An IoT-Enabled Environment-Aware Electrical Safety Assistant
GUPTA Anshita, Indian Institute of Technology, Kharagpur India

Diagnosis of Specific Phobic Anxiety Disorders using Virtual Reality Environment
MUNIR Alina, University of Engineering and Technology, Lahore, Pakistan

Saving Fuel, Time, and Lives with Collaborative Autonomous Intersection Management
WANG I-Chih, National Yang Ming Chiao Tung University, Taiwan
RCC Activities

○ GC/ICC Symposia Chair Nomination
  ▪ Call for nomination for Globecom 2023 has been sent out via RCC mailing list (by November 25, 2021)
    ▪ Received 14 nominations for ICC 2023 and 9 nominations for GC 2022
  ▪ Self-nomination is allowed

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Dear RCC members,

IEEE Globecom 2023 will be held at Kuala Lumpur, Malaysia. We are now seeking nominations for TPC symposium co-chairs for several symposia of RCC interest, including Wireless Communications (WC), Communication Theory (CT), Signal Processing for Communications (SPC), and Cognitive Radio and Networks (CRN). The list of all symposia and SAC tracks planned for IEEE Globecom 2023 is enclosed below.
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- ICC 2023 (Rome, Italy) Symposia Chair
  - Mobile & Wireless Networks Symposium: Damla Turgut (Univ. Central Florida), Chin-Tser Huang (Univ. South Carolina), Chun-Hung Liu (Mississippi State Univ.), Carla Chiasserini (Polytechnic of Turin)
  - Communication & Information System Security Symposium: Abderrahim Benslimane (Univ. Avignon), Kuan Zhang (Univ. Nebraska–Lincoln), Dajana Cassioli (Univ. L’Aquila)
  - Signal Processing for Communications Symposium: George Alexandropoulos (National and Kapodistrian Univ. Athens), Yik-Chung Wu (Univ. Hong Kong), Junqing Zhang (Univ. Liverpool)
RCC Activities

- ICC 2023 (Rome, Italy) Symposia Chair
  - Communication Theory Symposium: Chia-Han Lee (National Chiao Tung Univ.), Yansha Deng (King's College London), Haesik Kim (VTT Technical Research Center)
  - Cognitive Radio & AI-Enabled Networks Symposium: Sudharman Jayaweera (Univ. New Mexico), Lei Zhang (Univ. Glasgow)
RCC Activities

- **ComSoc Technical Co-sponsorship Conference Endorsement**
  - Conference should be relevant to the scope of RCC
  - RCC endorses a number of conferences every year
  - Please contact RCC officers for the support of RCC

- **IEEE Fellowship Endorsement**
  - Please contact RCC officers for the support of RCC

- **ComSoc Distinguished Lecturer Nomination**
  - Nomination deadline will be around September 2022.
  - Please contact RCC officers for the support of RCC
  - Selected DLs
    - Tony Q. S. Quek, Singapore University of Technology and Design (~ Dec. 2021)
    - Giovanni Geraci, University Pompeu Fabra (~Dec. 2022)
    - Bruno Clerckx, Imperial College London (~Dec. 2022)
RCC Activities - Seminar Series

- The IEEE Radio Communications Committee has launched a series of online seminars starting from July 2021, to give great opportunities to learn the recent outcomes on trending topics from outstanding researchers. The duration of each seminar is 35-40 minutes plus Q&A.

- Website: [https://rc.committees.comsoc.org/rcc-seminar-series/](https://rc.committees.comsoc.org/rcc-seminar-series/)

- **First RCC Seminar**
  - Speaker: Prof. Mark Flanagan (University College Dublin)
  - Date: July 8, 2021
  - Title: Optimization of the Achievable Rate for MIMO Systems Assisted by Reconfigurable Intelligent Surfaces
  - Slides are available in the RCC website

- **Second RCC Seminar**
  - Speaker: Prof. Emil Björnson (Linkoping University, Sweden)
  - Date: October 1, 2021
  - Title: Wireless Communications with Physically Large Antenna Arrays
Call for Nominations for RCC Award

Soliciting nominations for 2022 Outstanding Service Award (March 1, 2022)

Soliciting nominations for 2022 Early Achievement Award (March 1, 2022)

- Recognize members of the RCC who have achieved early career visibility in the field through research and service, and who
  - have participated in the RCC (e.g., attended RCC meetings, served RCC in a significant capacity, been member of the TPC for ICC/GLOBECOM)
  - are within 10 years of their Ph.D.

- Past recipients
  - 2021 Emil Björnson “Wireless Communications with Physically Large Antenna Arrays”
  - 2019 Mehdi Bennis “Ultra-Reliable and Low-latency communication in 5G and Beyond”
  - 2018 Santiago Mazuelas “Probabilistic processing of complex data”
  - 2018 Walid Saad "Unmanned Aerial Vehicles for Wireless Networking: An Overview"
Next RCC Meeting

The next RCC meeting will be scheduled in ICC 2022, Seoul, Korea

THANK YOU AND SEE YOU THEN!
Officers Contacts

Chair: Jemin Lee
Sungkyunkwan University (SKKU), Korea
https://sites.google.com/site/jeminleeweb/
E-mail: jemin.lee@skku.edu

Vice Chair: Julian Cheng
The University of British Columbia, Canada
https://engineering.ok.ubc.ca/about/contact/julian-cheng/
E-mail: julian.cheng@ubc.ca

Secretary: Enrico Paolini
University of Bologna, Italy
https://sites.google.com/view/enrico-paolini/
E-mail: e.paolini@unibo.it

RCC Website:
http://rc.committees.comsoc.org
ComSoc Standards Board Technical Committee Liaisons Report

RCC Standard Liaisons Officer: George Chrisikos (gchrisikos@ieee.org)

• ComSoc SB Objective:
  • Discussion of IEEE/ComSoc Standards Development Projects
  • New Standardization Initiatives
  • Procedures
  • Operational Issues
  • In partnership with the IEEE-SA Standards Board
IEEE Communications Society (ComSoc) Standards Development Board (SDB)

▶ Approved standards:
  - IEEE 1652-2016: IEEE Standard for Translating Head and Torso Simulator Measurements from Eardrum to Other Acoustic Reference Points

▶ Active projects:
Dynamic Spectrum Access Networks Standards Committee (DySPAN-SC)

Approved standards:


Active projects:

- P1900.2: Revision to IEEE Standard 1900.2-2008
- P1900.5: Revision to IEEE Standard 1900.5-2011P1900.5.1: Standard Policy Language for Dynamic Spectrum Access Systems
- P1900.5.2a: Spectrum Consumption Modelling Schema
Power Line Communication Standards Committee (PLC-SC)

افتتاحيات:

- IEEE 1901.2-2013: IEEE Standard for Low Frequency (less than 500 kHz) Narrow Band Power Line Communications for Smart Grid Applications
- IEEE 2030.5-2013: IEEE Adoption of Smart Energy Profile 2.0 Application Protocol Standard
- IEEE 1909.1-2014: IEEE Recommended Practice for Smart Grid Communications Equipment — Test Methods and Installation Requirements
- IEEE 1901.2a-2015: IEEE Standard for Low-Frequency (less than 500 kHz) Narrowband Power Line Communications for Smart Grid Applications – Amendment 1
- P1901.1: Medium Frequency (less than 15 MHz) Power Line Communications for Smart Grid Applications

مشاريع مفتوحة:

- P2030.5: Standard for Smart Energy Profile Application Protocol
- P1901.1.1: Standard Test Procedures for IEEE 1901.1 Standard for Medium Frequency (less than 15 MHz) Power Line Communications for Smart Grid Applications
- P1901: Standard for Broadband over Power Line Networks: Medium Access Control and Physical Layer Specifications (Revision of IEEE 1901-2010)
- P2847: DC Power Transmission and Communication to DC Loads
- P2413.1: Standard for a Reference Architecture for Smart City (RASC)
Virtualized and Software Defined Networks and Services Standards Committee (NetSoft-SC)

- **Approved standards:**

- **Active projects:**
  - P1913: Software-Defined Quantum Communication
  - P1915.1: Standard for Software Defined Networking and Network Function Virtualization Security
  - P1916.1: Standard for Software Defined Networking and Network Function Virtualization Performance
  - P1917.1: Standard for Software Defined Networking and Network Function Virtualization Reliability
  - P1921.1: Software-Defined Networking (SDN) Bootstrapping Procedures
  - P1930.1: Recommended Practice for Software Defined Networking (SDN) based Middleware for Control and Management of Wireless Networks
  - P1938.1: Standard for Software Defined Protocol and Functional Requirements for Improvement of the Signal-to-Noise Ratio (SNR) in Communications Channels
  - P1950.1: Standard for Communications Architectural Functional Framework for Smart Cities
  - P1951.1: Standard for Discovering and Intent Sharing between Smart City Component Systems
  - P2784: Guide for the Technology and Process Framework for Planning a Smart City

Green ICT Standards Committee (GreenICT-SC)

- **Active projects:**
  - P1922.1: A method for calculating anticipated emissions caused by virtual machine migration and placement
  - P1922.2: A method to calculate near real-time emissions of information and communication technology infrastructure
  - P1923.1: Computation of energy efficiency upper bound for apparatus processing communication signal waveforms
  - P1924.1: Recommended practice for developing energy efficient power-proportional digital architectures
  - P1925.1: Energy Efficient Dynamic Line Rate Transmission System
  - P1927.1: Services Provided by the Energy-efficient Orchestration and Management of Virtualized Distributed Data Centers Interconnected by a Virtualized Network
  - P1929.1: An Architectural Framework for Energy Efficient Content Distribution
Mobile Communication Networks Standards Committee (MobiNet-SC)

Approved standards:
- 1914.3-2018: IEEE Standard for Radio over Ethernet Encapsulations and Mappings

Active projects:
- P1918.1: Tactile Internet: Application Scenarios, Definitions and Terminology, Architecture, Functions, and Technical Assumptions
- P1918.1.1: Haptic Codecs for the Tactile Internet
- P1920.1: Aerial Communications and Networking Standards
- P1931.1: An Architectural Framework for Real-time Onsite Operations Facilitation (ROOF) for the Internet of Things
- P1932.1: Licensed/Unlicensed Spectrum Interoperability in Wireless Mobile Networks
- P2061: Architecture for Low Mobility Energy Efficient Network for Affordable Broadband Access
- P2872: Standard for Interoperable and Secure Wireless Local Area Network (WLAN) Infrastructure and Architecture

Edge, Fog, Cloud Communications with IOT, Big Data Standards Committee (EdgeCloud-SC)

Approved standards:

Active projects:
- P1912: Privacy and Security Architecture for Consumer Wireless Devices
- P1906.1.1: Standard Data Model for Nanoscale Communication Systems
- P1934: OpenFog Reference Architecture for Fog Computing

Access and Core Networks Standards Committee (AccessCore-SC)

Approved standards:

Active projects:
- P1904.2: Management Channel for Customer-Premises Equipment Connected to Ethernet-Based Subscriber Access Networks
- P1911.3: HDBaseT 5Play
- P1910.1: Meshed Tree Bridging with Loop Free Forwarding