Radio Communications Committee (RCC) Meeting

May 24, 2017, Paris, France

IEEE COMMUNICATIONS SOCIETY

Radio Communications Committee (RCC)

IEEE ICC 2017
Paris, France
May 24, 2017 – 12:30 – 14:00

Chair: Andrea Giorgetti
Vice Chair: Yuan Shen
Secretary: Jemin Lee

http://rc.committees.comsoc.org
Radio Communications Committee (RCC) Meeting
May 24 2017, Paris, France

Agenda

1. Welcome/Introductions
2. Approval of Agenda
3. Approval of GC’16 RCC Meeting Minutes (available on the website)
4. Conferment of 2017 IEEE ComSoc RCC Outstanding Service Award
5. Report on Conference/Workshop/Standards Activities
6. Student Competition: Communication Technology May Change the World
7. New Business items
8. Next RCC meeting
9. 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.
Approval of GC’16 RCC Meeting Minutes available at

http://rc.committees.comsoc.org

New website layout
2017 IEEE ComSoc RCC Outstanding Service Award

The Radio Communications Committee (RCC) Outstanding Service Award is established to recognize members of the RCC who have a distinguished record of service to the RCC community, including organization of RCC endorsed symposia and workshops, providing exceptional leadership within the RCC, and promotion of RCC activities and interests in the broader research community.
Conferment of

2017 IEEE ComSoc RCC Outstanding Service Award

Prof. Hanna Bogucka
Radio Communications Committee (RCC) Meeting
May 24 2017, Paris, France

IEEE Communications Society
Radio Communications Committee

2017 Outstanding Service Award

Is Presented To

Hanna Bogucka

For outstanding service to the Radio Communications Committee

Haevey Freeman
President
IEEE Communications Society

Luigi Fratta
Vice President
Technical & Educational Activities
Supported conferences

The following conferences received Technical Sponsorship from IEEE Communications Society based on RCC recommendation
Conference Reports

- **GLOBECOM 2016**: Hyundong Shin (CRN)
- **GLOBECOM 2016**: Dania Marabissi, Yuan Shen (SPC)
- **ICC 2017**: Fulvio Babich (CT)
- **ICC 2017**: Davide Dardari (WC)
- **GLOBECOM 2017**: Andrea Conti (WC)
- **IINTEC2017**: Andrea Giorgetti, Nan Wu, Ruei-Hau Hsu
- **COMCAS2017**: Flavio Zabini, Tingting Zhang, Mohapatra Parthajit
- **ICSPCS 2017**: Hans-Juergen Zepernick, Tadeusz Wysocki, Lajos Hanzo
- **ISWCS 2017**: Tingting Zhang, Andreas Springer, Jue Wang
- **ICT 2017**: Alessandro Bazzi, Flavio Zabini, Yuan Shen
- **ICC 2018**: Andrea Giorgetti (SPC)
- **GLOBECOM 2018**: Yuan Shen (WC)
Globecom 2016 – Cognitive Radio Network Symposium

Where: Washington, DC, USA

Symposium/Track: Cognitive Radio Network Symposium

Co-chairs: Lingyang Song, Hyundong Shin, Kit Wong

RCC representative: Hyundong Shin (hshin@khu.ac.kr)

Total Submissions: 119
Acceptance Rate: 40.3%

#TPC members: 199

Avg number of reviews/paper = 2.51

Rebuttal process N

Keynote speech: Edward Tiedemann, Vahid Tarokh, Martin Hellman, Julius Knapp, Sorabh Saxena, Muriel Médard, Asha R. Keddy
Globecom 2016 – Signal Processing for Communications Symposium

Where: Washington, DC, USA

Symposium/Track: Signal Processing for Communications Symposium
Co-chairs: Dania Marabissi, Trung Q. Duong, Yuan Shen
RCC representative: Dania Marabissi (dania.marabissi@unifi.it)  
Yuan Shen (shenyuan_ee@tsinghua.edu.cn)

Total Submissions: 153
Acceptance Rate: 56/153 = 37%

#TPC members: 174
Avg number of reviews/paper = 4.1

Keynote speech: Edward Tiedemann, Vahid Tarokh, Martin Hellman, Julius Knapp,
Sorabh Saxena, Muriel Médard, Asha R. Keddy

Rebuttal process N
ICC 2017 – Communication Theory Symposium


Symposium/Track: Communication Theory Symposium
Co-chairs: Ender Ayanoglu, Fulvio Babich, Steven Weber
RCC representative: Fulvio Babich (babich@units.it)

Total Submissions: 164

Acceptance Rate (final/expected): 39% final / 30-40% expected

#TPC members: 143
Avg number of reviews/paper = 3.83  Rebuttal process N

Keynote speech: N
ICC 2017 – Wireless Communications Symposium

When: 21.5.2017 – 25.5.2017
Where: Paris, France

Symposium/Track: Wireless Communications Symposium
Co-chairs: Davide Dardari, Mohamad Assaad, Azzedine Boukerche, Hamalainen Jyri
RCC representative: Davide Dardari (davide.dardari@unibo.it)
Total Submissions: 547 (+10%)
Accepted papers: 209
Acceptance Rate: 38%

#TPC members: 324
Average load per TPC member: about 5
Avg number of reviews/paper = 3 - 4
Number of sessions: 29 oral, 10 interactive
GLOBECOM 2017 – Wireless Communications Symposium


Symposium: Wireless Communications
Co-chairs: Kaibin Huang, Mohamed Slim-Alouini, Yi Gong, Andrea Conti, Zhiguo Shi
RCC representative: Andrea Conti (a.conti@ieee.org)

Total Submissions: 424
Acceptance Rate (final/expected): TBD, expected classical 35-40%

#TPC members: 404
Avg number of reviews/paper = 3+ (assigned ~5 per paper) Rebuttal process N

Keynote speech: n.a.
Int. Conf. on Internet of Things, Embedded Systems and Communications (IINTEC 2017)

Where: Gafsa, Tunisia

Track: Communications Systems

General Chairs: Salem Hasnaoui, University of Tunis El Manar, Tunisia
Thierry Val, IRIT, University of Toulouse, France

RCC representative: Andrea Giorgetti (a.giorgetti@ieee.org), Nan Wu, Ruei-Hau Hsu

Total Submissions: 250 (expected)
Acceptance Rate: <36% (expected)
#TPC members: 100
Avg number of reviews/paper = 3 to 4
Rebuttal process Yes

Keynote speech: Prof. Hichem Snoussi (Univ. of Tech. of Troyes, France) and other TBA.

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Where: Tel Aviv, Israel


General Chairs: Shmuel Auster, Amir Boag, Stephen B. Weinstein, Caleb Fulton, Reuven Shavit, Lance M. Kaplan, Aleksey Dyskin, Oren Eliezer, Ofer Barnea

RCC representative: Flavio Zabini (flavio.zabini2@unibo.it)

Total Submissions: 340 (expected)
Acceptance Rate: 50% (expected)
#TPC members: About 200
Avg number of reviews/paper = 3
Rebuttal process Yes

Keynote speech: Prof. Avram Bar Cohen, Prof. Col. Barry L. Shoop, Mr. Israel Lupa

Where: Surfers Paradise, Australia

Symposium/Track: 11th International Conference on Signal Processing and Communication Systems, ICSPCS’2017

Co-chairs: Hamid Sharif (General Chair), Tadeusz A Wysocki (TPC Chair)

RCC representatives: Hans-Juergen Zepernick (hans-jurgen.zepernick@bth.se), Tadeusz Wysocki, Lajos Hanzo

Total Submissions: expected ~300
Acceptance Rate (expected): 36%

#TPC members: 89
Avg number of reviews/paper = 3.2 (expected)

Keynote speech: Dr. Scott Kordella & Dr. Malcolm Davis

Rebuttal process N


General Chairs: Roberto Verdone, Chiara Buratti,
TPC Chair: Marco Chiani
RCC representatives: Tingting Zhang (zhangtt@hit.edu.cn), Andreas Springer, Jue Wang

Total Submissions: 158
Acceptance Rate: <50% (expected)
#TPC members: 145  Avg number of reviews/paper = 3 to 4  Rebuttal process Yes

Keynote speech: David Gesbert (Eurecom, France), Merouane Debbah (Huawei, France)
Moe Win (MIT, US), Giuseppe Caire (TU Berlin, Germany)
International Conference on Telecommunications
"Intelligence in every form" (ICT 2017)

When: 03.05.2017 – 05.05.2017
Where: Limassol, Cyprus

Co-chairs: Hamid Aghvami and Georgios Ellinas
RCC representative: Alessandro Bazzi (alessandro.bazzi@cnr.it), Flavio Zabini, Yuan Shen

Total Submissions: 136
Acceptance Rate (final): 41%

#TPC members: 177
Avg number of reviews/paper = 3.41 (45% of papers had more than 3 reviews)
Rebuttal process: NO

Keynote speech: 1) Mohamed-Slim Alouini; 2) Latif Ladid; 3) Neophytos Papadopoulos
ICC 2018 – Signal Processing for Communications Symposium

When: 20.05.2018 – 24.05.2018  Where: Kansas City, Mo, USA

Symposium: Signal Processing for Communications Symposium
Co-chairs: Xiaohu Ge (Lead Co-Chair), Takahiko Saba, Andrea Giorgetti

RCC representative: Andrea Giorgetti (a.giorgetti@ieee.org)

Total Submissions: 180 (expected)
Acceptance Rate (final/expected): 37% (tentative)
#TPC members: 120 (planned)
Avg number of reviews/paper = N/A

Rebuttal process TBD

Prospective TPC members can contact our representatives!
GLOBECOM 2018 –Wireless Communications Symposium


Symposium/Track: Wireless Communications Symposium
Co-chairs: Sheng Zhou, Hyunbum Kim, Athanasios Iossifides, Yuan Shen
RCC representative: Yuan Shen (shenyuan ee@tsinghua.edu.cn)

Prospective TPC members can contact our representative!
ComSoc Standards Board Technical Committee Liaisons Report

RCC Standard Liaisons Officer: George Chrisikos, Qualcomm (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

  • Oliver Holland, Vice Chair
  • Adrian Kliks, Secretary
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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
IEEE Communications Society (ComSoc) Standards Development Board (SDB)

**Active projects:**

- P269: Standard for Measuring Electroacoustic Performance of Communication Devices
- P1903.1: Standard for Service Composition Protocols of NGSON
- P1903.2: Standard for Service Composition Protocols of NGSON
- P1903.3: Standard for Self-Organizing Management Protocols of NGSON
- P1904.1: Standard for Service Interoperability in Ethernet Passive Optical Networks (SIEPON)
- P1904.2: Standard for Service Interoperability in Ethernet Passive Optical Networks (SIEPON)
- P1908.1: Virtual Keyboard Standard for Indic Languages
- P1910.1: Standard for Meshed Tree Bridging with Loop Free Forwarding
- P1911.1: IEEE Draft Standard — Adoption of HDBaseT Specification Version 1.1.0
- P1911.2: IEEE Draft Standard — Adoption of HDBaseT Specification Version 2.0
- P1911.3: Standard for HDBaseT 5Play
- P1912: Standard for Privacy and Security Architecture for Consumer Wireless Devices
- P1913: Software-Defined Quantum Communication
- P1914.1: Standard for Packet-based Fronthaul Transport Networks
- P1914.3: Standard for Radio Over Ethernet Encapsulations and Mappings
- 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
- P1918.1: Tactile Internet: Application Scenarios, Definitions and Terminology, Architecture, Functions, and Technical Assumptions
- P1920.1: Aerial Communications and Networking Standards
- P1921.1: Software-Defined Networking (SDN) Bootstrapping Procedures
- 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
- P1930.1: Recommended Practice for Software Defined Networking (SDN) based Middleware for Control and Management of Wireless Networks
- P1931.1: An Architectural Framework for Real-time Onsite Operations Facilitation (ROOF) for the Internet of Things
Dynamic Spectrum Access Networks Standards Committee (DySPAN-SC)

**Approved standards:**

- IEEE 1900.2-2008: IEEE Recommended Practice for the Analysis of In-Band and Adjacent Band Interference and Coexistence Between Radio Systems

**Active projects:**

- P1900.5.1: Standard Policy Language for Dynamic Spectrum Access Systems
- P1900.5.2: Method for Modeling Spectrum Consumption
Power Line Communication Standards Committee (PLC-SC)

**Approved standards:**

- IEEE 1901.2-2013: IEEE Standard for Low Frequency (less than 500 kHz) Narrow Band Power Line Communications for Smart Grid Applications
- 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

**Active projects:**

- P1901.1: Medium Frequency (less than 15 MHz) Power Line Communications for Smart Grid Applications
- P1905.1a: Standard for a Convergent Digital Home Network for Heterogeneous Technologies Amendment: Support of new MACPHYs and enhancements
- P1909.1: Recommended Practice for Smart Grid Communication Equipment – Test methods and installation requirements
- P2030.5: Standard for Smart Energy Profile Application Protocol
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**IPIN International Standards Committee**

RCC representative: Andrea Conti *(a.conti@ieee.org)*

**IPIN (Indoor Positioning and Indoor Navigation) [http://ipin-conference.org/]**

- Location information of devices in indoor environments has become a key issue for many emerging applications. However, there is no overall and easy solution.
- IPIN brings together researchers, system developers, and service providers in the area of indoor positioning and navigation.
- IPIN is one of the largest and very active community working in indoor positioning and navigation worldwide with hundreds of participants, both from academia and industry, during the annual IPIN conference.
- First annual IPIN conference hosted by ETH Zurich in 2010.
- IPIN 2017 conference will be at Sapporo, Japan. *(http://www.ipin2017.org/)*

**IPIN International Standards Committee**

- Part of IPIN organization
- Develops standards through the collaboration of academia, industry and government organizations.
- Developed standards
  - Vendor neutral
  - technology-agnostic
  - open architecture standards based on the OSI model.

**Meetings**

- regularly scheduled conference calls
- face-to-face during annual IPIN conference
IPIN International Standards Committee

Vision

- Ubiquitous indoor navigation: Anytime, Anywhere, Anyone

Mission

- Enable seamless indoor navigation around the globe by defining open architecture and technology agnostic standards.

Committee Structure

1. Architecture Subcommittee
2. Industry Liaison Subcommittee
3. IPIN Liaison Subcommittee
4. Mapping Subcommittee
5. Membership Subcommittee
6. Publication Subcommittee
7. Standards Organization Liaison Subcommittee
8. Cyber Security Subcommittee
9. Technology Subcommittee
10. User Interface Subcommittee
IPIN Standards Committee

1. Architecture Subcommittee
   - Develops an open architecture based standard which conform to the OSI model.
   - Reviews and evaluates other published works regarding indoor navigation standards

2. Industry Liaison Subcommittee
   - Maintains liaison with other industry groups to promote the standards developed by the Committee

3. IPIN Liaison Subcommittee
   - Maintains liaison with the IPIN

4. Mapping Subcommittee
   - Evaluates the relevant published standards for indoor maps
   - Recommends appropriate data format for storage and transmission of the indoor maps

5. Membership Subcommittee
   - Promotes membership and reviews new membership requests

6. Publication Subcommittee
   - Reviews and approves publications
   - Maintains the IPIN International Standards Committee webpage

7. Standards Organization Liaison Subcommittee
   - Investigates the best ways to publish the standards
   - Interacts with other standards organizations

8. Cyber Security Subcommittee
   - Researches cyber security issues related to IPIN systems and recommend mitigation methods

9. Technology Subcommittee
   - Researches new and emerging technologies
   - Tracks the advances of the existing technology which will improve the localization systems

10. User Interface Subcommittee
    - Investigates the machine-to-human Interface and machine-to-machine interface methods and procedures
    - Recommends appropriate methods for adoption.
    - Promotes consistent phraseology and user interface, i.e. same look and feel, used by the indoor navigation systems around the globe for better user experience (UX).

http://rc.committees.comsoc.org
Contact: standard.ipin@gmail.com

IPIN Conference: http://ipin-conference.org/
Communication Technology May Change the World
Student Competition

RCC representative: Alberto Rabbachin (a.rabbachin@ieee.org)

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

Number of evaluated project: 36 (after having removed various incomplete entries and several projects, which resulted not eligible because there were no ComSoc Student Members in the submitting team.)

Prizes
• 1st: USD $2000 + plaque
• 2nd: USD $1000 + plaque
• All other projects judged meritorious by the evaluation committee will receive honorary certificates of appreciation by the IEEE Communications Society.
STUDENT COMPETITION 2016 RESULTS

FIRST PRIZE

Cooperative Networks for Ubiquitous Localization and Navigation
• Wenhan Dai, Bryan Teague, Zhenyu Liu
• Massachusetts Institute of Technology, USA

SECOND PRIZE

RIM: Resilient Information Management System in Network-Isolated Environment after Disasters
• Kazuya Anazawa, Yasuyuki Maruyama, Yuto Ouch, Hibiki Osawa, Yusuke Igarashi,
  University of Aizu, Japan

2017 Student competition deadline is in september!

http://rc.committees.comsoc.org
IEEE and IEEE ComSoc Awarded

IEEE Eric E. Sumner Award

William C. Lindsey - *For contributions to synchronization and digital communications technologies.*

IEEE Alexander Graham Bell Medal

H. Vincent Poor - *For fundamental contributions to signal processing and its application to digital communications*

IEEE Edwin Howard Armstrong Achievement Award

Moe Z. Win - *For contributions to the foundation of wireless communication and localization networks*
Selected Distinguished Lecturers

Mohsen Kavehrad, Pennsylvania State University
Luiz DaSilva, Trinity College Dublin (renewed, 2nd term)

*Deadline for applications is sept. 2017*

Best readings

[www.comsoc.org/best-readings](http://www.comsoc.org/best-readings)

List of papers (w/commentary and hyperlinks) online.

One new every quarter: power line communications; cognitive radio; broadband access; green communications; multi-tier cellular networks (Andrea Conti, RCC); localization (Yuan Shen, RCC)
New Business Items

Recertification of TCs
Evaluation of 1/3 of TCs every year: RCC selected in 2017
  • Report submitted (deadline May 1st). Waiting for the evaluation result (GC’17).

New Award: Early achievement award
  • 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.
Radio Communications Committee (RCC)
IEEE Communication Society Technical Committee
Policies and Procedures (P&P)

(Version 8, approved in the RCC meeting held in Paris, France, May 24, 2017)
(in blue the amendments w.r.t. version 7 approved in the RCC meeting held in Sydney, ICC14)

8) Procedures for Internal TC Awards
As a part of the TC activities, the Technical Recognition Award, the Outstanding Service Award, and the Early Achievement Award, are established to recognize those ComSoc members who, respectively, have made their significant contributions to the radio communications technological advancement, have distinguished record of service to the TC, and have achieved early career visibility in the field through research and service. Each award will be announced and given once a year during the IEEE ICC and Globecom conferences.

Nominations will be solicited by e-mails from the TC members. All nominations must be sent to the TC Secretary. The applications can be from individual researchers on a self-nomination basis, or nominations by other people or research groups. The nomination should include a concise description of the candidate’s accomplishments as related to the TC. The nominations cannot be from the members of the TC Awards Committee. No TC Awards Committee members can be nominated while they are in their service.

The TC Awards Committee consists of the TC officers (Chair, Vice-Chair, and Secretary) and two other TC members nominated by the TC Chair, and amongst all received nominated candidates the TC Award Committee will make the final decisions for the RCC Outstanding Service Award, RCC Technical Recognition Award, and RCC Early Achievement Award, each year.
Early achievement award

Guidelines for the RCC Early Achievement Award
(Version 1, approved at the RCC meeting held in Paris, France, May 24, 2017)

The Radio Communications Committee (RCC) Early Achievement 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 achieved early career visibility in the field through research and service to the RCC.

Award Frequency The RCC Early Achievement Award will be given in each calendar year. If no suitable candidate is proposed in a given year, the award will not be presented for that year. The award will be announced and conferred during the IEEE International Conference on Communications (ICC).

Nomination Procedure Nominations will be solicited by e-mail from the RCC members. All nominations must be sent to the RCC Secretary in PDF or text format by March 1 of the year in which the award is to be given. The nominations should include a concise description of the candidate's contributions to the technological advancement of radio communications and any supporting materials showing that the candidate has met the award eligibility criteria. Any person may nominate a candidate for the award, except the members of the RCC Early Achievement Award Selection Committee and ComSoc Board of Governors.
Early achievement award

Guidelines for the RCC Early Achievement Award
(Version 1, approved at the RCC meeting held in Paris, France, May 24, 2017)

Eligibility Criteria Any individual, except members of the RCC Early Achievement Award Selection Committee and ComSoc Board of Governors, may be nominated for the award if the following criteria are met:

• the candidate must be an IEEE ComSoc Member at the time of nomination;
• the candidate must have been involved significantly with research related to the areas of radio communications;
• the candidate have participated in the RCC (e.g., attended RCC meetings, served RCC in a significant capacity, been member of the TPC for ICC/GLOBECOM), and
• the candidate must be within 10 years since completion of Ph.D. at the time of nomination.

Award Selection Committee The recipient of the RCC Early Achievement Award is decided by the RCC Early Achievement Award Selection Committee, which is chaired by a past RCC chair. The committee also consists of the current RCC officers (Chair, Vice-Chair, and Secretary) plus one additional RCC member nominated by the Award Selection Committee Chair.

Support for the Award The RCC Early Achievement Award is supported by the IEEE ComSoc and will be funded under the IEEE ComSoc annual budget for supporting Technical Committee activities.
New Business Items

Communication from Technical & Educational Activities Council (TEAC):

IEEE COMSOC SUMMER SCHOOL
The 3rd Edition will be held on 17-20 July 2017 at the University of New Mexico.

Communication History Committee (Chair: Steve Weinstein)
Upcoming articles
• History of Radio Propagation (Jorgen Andersen, Aalborg Univ.), to be published in IEEE Communications Magazine in 2017
• History of SDN (Aneroussis-Lazar-Weinstein)
• History of Echo Cancellation (Hanna Bogucka, Poznan University)
• History of MIMO (Jack Winters)
• History of Coding (Stephan Brink, University of Stuttgart)
• History of Communication Standards (Mostafa Sherif, AT&T)
New Business Items

Soliciting nominations for the 2017 Technical Recognition Award (Aug. 15)

Past recipients:

2016 - William C. Lindsey
2015 - Larry Greenstein
2014 - Vincent Poor
2013 - Lajos Hanzo
2012 - Desmond Taylor
2011 - Norman Beaulieu
2010 - Marco Chiani
2009 - Jack Winters
2008 - Moe Win
2007 - Robert A. Scholtz
New Business Items

Soliciting nominees for Technical Program Committee activities

Join the RCC discussion group at
http://community.comsoc.org/groups/tc-radio-communications

Join the RCC mailing list: rcc@comsoc.org (currently 1076 members)

AOB?
Next RCC Meeting

The next RCC meeting will be scheduled in Globecom 2017, Singapore

THANK YOU AND SEE YOU THEN!
Officers Contacts

Chair: Andrea Giorgetti
University of Bologna, Italy
https://sites.google.com/site/andrewgiorgetti/
E-mail: andrea.giorgetti@unibo.it

Vice-Chair: Yuan Shen
Tsinghua University, China
http://oa.ee.tsinghua.edu.cn/~shenyuan/
E-mail: shenyuan_ee@tsinghua.edu.cn

Secretary: Jemin Lee
Daegu Gyeongbuk Institute of Science and Technology, Korea
https://sites.google.com/site/jeminleeweb/
E-mail: jmnlee@dgist.ac.kr

RCC Website:
http://rc.committees.comsoc.org