

**IEEE COMMUNICATIONS SOCIETY**  
**Radio Communications Committee (RCC)**

**IEEE ICC 2015**

**London, UK**

**June 11, 2015 – 13:00 – 14:30**

Chair: Hanna Bogucka

Vice Chair: Andrea Giorgetti

Secretary: Yuan Shen

# Agenda

1. Welcome/Introductions
2. Approval of Agenda
3. Approval of GC'14 RCC Meeting Minutes (available on the website)
4. Conferment of 2015 IEEE ComSoc RCC Outstanding Service Award
5. Report on Conference/Workshop Activities
6. Report on Standards activities
7. Student Competition: Communication Technology May Change the World
8. New Business items
9. Next RCC meeting
10. 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.

## 2015 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

2015 IEEE ComSoc RCC Outstanding Service Award

***Prof. Andrea Conti***



IEEE COMMUNICATIONS SOCIETY  
RADIO COMMUNICATIONS COMMITTEE

**2015 OUTSTANDING SERVICE AWARD**

IS PRESENTED TO

**ANDREA CONTI**

FOR OUTSTANDING SERVICE TO THE RADIO COMMUNICATIONS COMMITTEE



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SERGIO BENEDETTO  
PRESIDENT  
IEEE COMMUNICATIONS SOCIETY



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HANNA BOGUCKA  
CHAIR  
COMSOC RADIO COMMUNICATIONS COMMITTEE

## New Website: [http://committees.comsoc.org/TC\\_RC](http://committees.comsoc.org/TC_RC)

**IEEE COMMUNICATIONS SOCIETY**  
Radio Communications Committee

**IEEE**

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**Officers**  
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**Outstanding Service Award**  
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**RCC IEEE ComSoc Radio Communications Committee**

**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 discussion group:**  
<http://community.comsoc.org/groups/tc-radio-communications>

**Next Meeting**  
The next RCC committee meeting will be at IEEE ICC 2015, London, UK, Thursday June 11 from 1:00 pm to 2:30 pm in South Gallery rooms 27 - 28 on level 2 in ExCel (the conference venue).

IEEE Communications Society © 2014

## Supported conferences

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



## Conference Reports

### Conference Reports

- **ICC 2015:** Santiago Mazuelas (WCS)
- **ICC 2015:** Henk Wymeersch (SP)
- **GLOBECOM 2015:** Watcharapan Suwansantisuk (WCS)
- **GLOBECOM 2015:** Norman Beaulieu (CRN)
- **GLOBECOM 2014:** Santiago Mazuelas (WCS)
- **GLOBECOM 2014:** Alberto Rabbachin (CRN)
- **ISWCS 2015:** Jemin Lee
- **ICSPCS'15:** Hans-Jurgen Zepernick

## ***ICC 2015 – Wireless Communications Symposium***

When: 08.06.2015 – 12.06.2015

Where: London, UK

Symposium/Track: *Wireless Communications Symposium*

Co-chairs: Lin Dai, Xiaoli Chu, Santiago Mazuelas, Dongming Wang, and Atilio Gameiro

RCC representative: **Santiago Mazuelas** ([smazuela@qti.qualcomm.com](mailto:smazuela@qti.qualcomm.com))

Total Submissions: 682

Acceptance Rate (final/expected): 37%

#TPC members: 634

Avg number of reviews/paper = 3.87

Rebuttal process  $N$



## **ICC 2015 – Signal Processing for Communications Symposium**

When: 08.06.2015 – 12.06.2015

Where: London, UK

Symposium/Track: *Signal Processing for Communications*

Co-chairs: *Sumei Sun, Funchun Zheng, Henk Wymeersch*

RCC representative: *Henk Wymeersch* ([henkw@chalmers.se](mailto:henkw@chalmers.se))

Total Submissions: 229

Acceptance Rate (final/expected): 35.4%

#TPC members: 238

Avg number of reviews/paper = 4.3

Rebuttal process  $N$

## ***Globecom 2015 – Wireless Communications Symposium***

When: 6.12.2015 – 10.12.2015

Where: San Diego, CA, USA

Symposium/Track: *Wireless Communications Symposium*

Co-chairs: *Matthew Valenti, Jingxian Wu, Watcharapan Suwansantisuk, Hongyi Wu, Huiling Zhu*

RCC representative: *Watcharapan Suwansantisuk* ([watcharapan.suw@kmutt.ac.th](mailto:watcharapan.suw@kmutt.ac.th))

Total Submissions: 480

Acceptance Rate (final/expected): N/A

#TPC members: 350

Avg number of reviews/paper = 4.0

Rebuttal process N

## ***Globecom 2015 – Cognitive Radio Network Symposium***

When: 6.12.2015 – 10.12.2015

Where: *San Diego, CA, USA*

Symposium/Track: *Cognitive Radio Network Symposium*

Co-chairs: *Norman C. Beaulieu, Sudharman Jayaweera, ChunSheng Xin*

RCC representative: *Norman Beaulieu* ([nborm@bupt.edu.cn](mailto:nborm@bupt.edu.cn))

Total Submissions: *N/A*

Acceptance Rate (final/expected): *N/A*

#TPC members: *N/A*

Avg number of reviews/paper = *N/A*

Rebuttal process *N*

## ***Globecom 2014 – Wireless Communications Symposium***

When: 8.12.2014 – 12.12.2014

Where: *Austin, TX*

Symposium/Track: *Wireless Communications Symposium*

Co-chairs: *Huaiyu Dai, Luc Deniere, Hlaing Minn, Santiago Mazuelas, Daniele Tarchi, and Zhaoyang Zhang.*

RCC representative: *Santiago Mazuelas* ([smazuela@qti.qualcomm.com](mailto:smazuela@qti.qualcomm.com))

Total Submissions: 391

Acceptance Rate (final/expected): 39%

#TPC members: 352

Avg number of reviews/paper = 3.66

Rebuttal process *N*

## ***Globecom 2014 – Cognitive Radio Network Symposium***

When: 8.12.2014 – 12.12.2014

Where: *Austin, TX*

Symposium/Track: *Cognitive Radio Network Symposium*

Co-chairs: Ahmed E. Kamal, Zhu Haojin, Alberto Rabbachin

RCC representative: *Alberto Rabbachin* ([a.rabbachin@ieee.org](mailto:a.rabbachin@ieee.org))

Total Submissions: 150 (19 withdrawn)

Acceptance Rate (final/expected): 37%

#TPC members: 188

Avg number of reviews/paper = 4.7

Rebuttal process *N*



# ***International Symposium on Wireless Communication Systems (ISWCS' 15)***

When: 25.8.2015 – 28.8.2015

Where: *Brussels, Belgium*

Symposium/Track: *3 Tracks and 4 workshops*

General Chair: *Luc Vandendorpe, Jerome Louveaux (UCL Belgium)*

RCC representative for TCS: *Jemin Lee ([jmnlee@ieee.org](mailto:jmnlee@ieee.org))*

Total Submissions: *290 up to now but some special sessions are still open for submission*

Acceptance Rate (expected): *50 %*

#TPC members: *236*

Avg number of reviews/paper = *2.97 (review process still ongoing)*

Rebuttal

process: *N*

Keynote speech: *Erik G. Larsson (Linkoping University, Sweden), Alexandre Proutiere (KTH/EES, Sweden), François Baccelli (UT Austin, USA), Björn Ottersten (University of Luxembourg), David*

*Geshert (EURECOM, France), Michael C. Gastpar (EPFL, Switzerland)*



# **9<sup>th</sup> International Conference on Signal Processing and Communication Systems (ICSPCS'15)**

When: 14.12.2015 – 16.12.2015

Where: Cairns, Australia

Symposium/Track: **9<sup>th</sup> International Conference on Signal Processing and Communication Systems, ICSPCS'2015**

Co-chairs: Rodney Kennedy, *Tadeusz A. Wysocki*

RCC representative: *Hans-Jürgen Zepernick* ([hans-jurgen.zepernick@bth.se](mailto:hans-jurgen.zepernick@bth.se))

Total Submissions: 300 (*expected*)

Acceptance Rate (final/expected): 33% (*expected*)

#TPC members: N/A

Avg number of reviews/paper = 3

Rebuttal process *N*

Keynote speech: *TBA*

## ICC 2016

When: 23.5.2016 – 27.5.2016

Where: *Kuala Lumpur, Malaysia*

Symposium/Track: *Communication Theory Symposium*

Co-chairs: *Marco Chiani, Marios Kountouris, Xu Zhu*

RCC representative: *Marco Chiani* ([marco.chiani@unibo.it](mailto:marco.chiani@unibo.it))

Symposium/Track: *Cognitive Radio Symposium*

Co-chairs: *Norman C. Beaulieu, Lingyang Song*

RCC representative: *Norman C. Beaulieu* ([nborm@bupt.edu.cn](mailto:nborm@bupt.edu.cn))

*Prospective TPC members can contact our representatives!*

## ***ComSoc Standards Board Technical Committee Liaisons Report***

RCC Standard Liaisons Officer: *George Chrisikos* ([gchrisikos@ieee.org](mailto:gchrisikos@ieee.org))

- ComSoc SB Objective:
  - Discussion of IEEE/ComSoc Standards Development Projects
  - New Standardization Initiatives
  - Procedures
  - Operational Issues

## IEEE Communications Society (ComSoc) Standards Development Board (SDB)

### ◆ Approved standards:

- IEEE 269-2010: IEEE Standard Methods for Measuring Transmission Performance of Analog and Digital Telephone Sets, Handsets, and Headsets
- IEEE 269a-2012: IEEE Standard Methods for Measuring Transmission Performance of Analog and Digital Telephone Sets, Handsets, and Headsets - Amendment 1
- IEEE 661-1979: IEEE Standard Method for Determining Objective Loudness Ratings of Telephone Connections
- IEEE 1329-2010: IEEE Standard Method for Measuring Transmission Performance of Speakerphones
- IEEE 1652-2008: IEEE Standard for the Application of Free Field Acoustic Reference to Telephony Measurements
- IEEE 1902.1-2009: IEEE Standard for Long Wavelength Wireless Network Protocol
- IEEE 1903-2011: IEEE Standard for the Functional Architecture of Next Generation Service Overlay Networks (NGSON)
- IEEE 1904.1-2013: IEEE Standard for Service Interoperability in Ethernet Passive Optical Networks (SIEPON)

### ◆ Active projects:

- P269: Standard for Measuring Electroacoustic Performance of Communication Devices
- P1652a: IEEE Standard for the Application of Free Field Acoustic Reference to Telephony Measurements Amendment a: Updated diffuse field graph and tables
- P1858: Standard for Camera Phone Image Quality (CPIQ) - co-sponsored with IEEE-SA Board of Governors (BOG) Corporate Advisory Group (CAG)
- P1903.1: Standard for Content Delivery Protocols of NGSON
- P1903.2: Standard for Service Composition Protocols of NGSON
- P1903.3: Standard for Self-Organizing Management Protocols of NGSON
- P1904.1-Conformance01: Standard for Conformance Test Procedures for SIEPON, IEEE Std 1904.1 Package A
- P1904.1-Conformance02: Standard for Conformance Test Procedures for SIEPON, IEEE Std 1904.1 Package B
- P1904.1-Conformance03: Standard for Conformance Test Procedures for SIEPON, IEEE Std 1904.1 Package C
- P1904.2: Standard for Management Channel for Customer-Premises Equipment Connected to Ethernet-Based Subscriber Access Networks
- P1906.1: Recommended Practice for Nanoscale and Molecular Communication Framework
- P1907.1: Standard for Network-Adaptive Quality of Experience (QoE) Management Scheme for Real-Time Mobile Video Communications
- P1908.1: Virtual Keyboard Standard for Indic Languages
- P1910.1: Standard for Meshed Tree Bridging with Loop Free Forwarding
- P2410: Biometrics Open Protocol Standard



## Dynamic Spectrum Access Networks Standards Committee (DySPAN-SC)

### ◆ Approved standards:

- IEEE 1900.1-2008: IEEE Standard Definitions and Concepts for Dynamic Spectrum Access: Terminology Relating to Emerging Wireless Networks, System Functionality, and Spectrum Management
- IEEE 1900.1a-2012: IEEE Standard for Definitions and Concepts for Dynamic Spectrum Access: Terminology Relating to Emerging Wireless Networks, System Functionality, and Spectrum Management Amendment: Addition of New Terms and Associated Definitions
- IEEE 1900.2-2008: IEEE Recommended Practice for the Analysis of In-Band and Adjacent Band Interference and Coexistence Between Radio Systems
- IEEE 1900.4-2009: IEEE Standard for Architectural Building Blocks Enabling Network-Device Distributed Decision Making for Optimized Radio Resource Usage in Heterogeneous Wireless Access Networks
- IEEE 1900.4a-2011: IEEE Standard for Architectural Building Blocks Enabling Network-Device Distributed Decision Making for Optimized Radio Resource Usage in Heterogeneous Wireless Access Networks Amendment 1: Architecture and Interfaces for Dynamic Spectrum Access Networks in White Space Frequency Bands
- IEEE 1900.4.1-2013: IEEE Standard for Interfaces and Protocols Enabling Distributed Decision Making for Optimized Radio Resource Usage in Heterogeneous Wireless Networks
- IEEE 1900.5-2011: IEEE Standard for Policy Language Requirements and System Architectures for Dynamic Spectrum Access Systems
- IEEE 1900.6-2011: IEEE Standard for Spectrum Sensing Interfaces and Data Structures for Dynamic Spectrum Access and Other Advanced Radio Communication Systems
- IEEE 1900.6a-2014: IEEE Standard for Spectrum Sensing Interfaces and Data Structures for Dynamic Spectrum Access and Other Advanced Radio Communication Systems - Amendment 1: Procedures, Protocols, and Data Archive Enhanced Interfaces

### ◆ Active projects:

- P1900.1: Standard Definitions and Concepts for Dynamic Spectrum Access: Terminology Relating to Emerging Wireless Networks, System Functionality, and Spectrum Management
- P1900.5.1: Standard Policy Language for Dynamic Spectrum Access Systems
- P1900.5.2: Method for Modeling Spectrum Consumption
- P1900.6-2011/Cor 1: IEEE Standard for Spectrum Sensing Interfaces and Data Structures for Dynamic Spectrum Access and Other Advanced Radio Communication Systems - Corrigendum 1
- P1900.7: Radio Interface for White Space Dynamic Spectrum Access Radio Systems Supporting Fixed and Mobile Operation



## Power Line Communication Standards Committee (PLC-SC)

### ◆ Approved standards:

- IEEE 1775-2010: IEEE Standard for Power Line Communication Equipment - Electromagnetic Compatibility (EMC) Requirements - Testing and Measurement Methods - co-sponsored with the IEEE Power and Energy Society (PES) Power System Communications Committee (PSCC)
- IEEE 1901-2010: IEEE Standard for Broadband over Power Line Networks: Medium Access Control and Physical Layer Specifications
- IEEE 1901.2-2013: IEEE Standard for Low Frequency (less than 500 kHz) Narrow Band Power Line Communications for Smart Grid Applications
- IEEE 1905.1-2013: IEEE Standard for a Convergent Digital Home Network for Heterogeneous Technologies
- IEEE 2030.5-2013: IEEE Adoption of Smart Energy Profile 2.0 Application Protocol Standard

### ◆ Active projects:

- P1905.1a: Standard for a Convergent Digital Home Network for Heterogeneous Technologies Amendment: Support of new MAC/PHYs 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

# Communication Technology May Change the World Student Competition

RCC representative: *Alberto Rabbachin* ([a.rabbachin@ieee.org](mailto: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>

Total submission: 42

Number of evaluated project: 42

## 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 2014 RESULTS

### ◆ FIRST PRIZE

#### **AVATARS: A Software Defined Radio based Teleoperating Cyber-Physical System for Disaster Environment Exploration**

Li'an Li, Wenbin Yu, Yong Cao, Ziwen Yang, Youjie Xia - Shanghai Jiao Tong University

### ◆ SECOND PRIZE (ex aequo)

#### **Nature-inspired Molecular Diffusion Communication Test-bed for Harsh Communication Environments**

Siyi Wang, Nariman Farsad, Song Qiu - Institute for Telecomm. Research, University of South Australia

#### **A System for Affordable Internet Access in Rural Developing Nations**

Esther Jang, Jessica Fujimori - MIT



## **Elevated Senior Grade and Selected Distinguished Lecturers**

### **Senior grade**

Congratulations to: Alberto Rabbachin

### **Distinguish Lecturers (2014 – 2015)**

48 candidates: selected 7 new, 13 renewal

Congratulations to: Norman C. Beaulieu (approved); George Chrisikos (renewed!);  
Mischa Dohler (renewed!)

## **IEEE and IEEE ComSoc Awarded**

### **IEEE Kiyo Tomiyasu Award**

Congratulations to: George Chrisikos (our Standard Liaison Officer)



## New Business Items

### 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

### Organization of Special Issues

### Nominations for Awards

**ComSoc Student Competition RCC representative (nominated for 2015):** Dr. Alberto Rabbachin, European Commission, [a.rabbachin@ieee.org](mailto:a.rabbachin@ieee.org)

## New Business Items

### Soliciting nominations for Technical Recognition Award 2015 (Aug. 15)

#### Past awards:

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](mailto:rcc@comsoc.org)**

**AOB?**

## **Next RCC Meeting**

**The next RCC meeting will be scheduled in  
GC2015, San Diego, CA, USA**

**THANK YOU AND  
SEE YOU THEN!**

## Officers Contacts

**Chair: Hanna Bogucka**

Poznan University of Technology, Poland  
<http://wcs.et.put.poznan.pl/kr/index.php>  
E-mail: [hbogucka@onet.eu](mailto:hbogucka@onet.eu)

**Vice-Chair: Andrea Giorgetti**

University of Bologna, Italy  
<https://sites.google.com/site/andrewgiorgetti/>  
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**Secretary: Yuan Shen**

Tsinghua University, China  
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## RCC Website:

[http://committees.comsoc.org/TC\\_RC](http://committees.comsoc.org/TC_RC)