IEEE COMMUNICATIONS SOCIETY
Radio Communications Committee (RCC)

ICC 2009 – Dresden
16 June, 12:30 – 13:30
Room Konferenz 7-8 (Convention Center)
Agenda

1. Welcome/Introductions
2. Approval of Agenda
3. Approval of GC08 RCC Meeting Minutes (circulated via RCC email list)
4. New web address
5. Conferment of 2009 IEEE ComSoc RCC Outstanding Service Award
6. Report on Conference/Workshops activities
7. Education: Tutorials/Short courses
8. Special issues on IEEE journals/Magazines
9. Standards activities
10. New Business items
11. Next RCC meeting will be scheduled in GC’09, Honolulu, Hawaii
12. Adjourn
New web address

The site has been moved to a new server.

Please bookmark the new address

http://rcc.bo.cnit.it/index.php
Conferment of

2009 IEEE ComSoc RCC Outstanding Service Award

Professor Hsiao-Hwa Chen
Recipient of 2009 IEEE ComSoc RCC Outstanding Service Award

**Professor Hsiao-Hwa Chen**

For outstanding service to the Radio Communications Committee and for furthering Radio Communications in the IEEE and the IEEE Communications Society.
Supported conferences

The following conferences received Technical Sponsorship from IEEE Communications Society based on RCC recommendation
IEEE ICC 2009 Wireless Communications Symposium, to be held in June 14-18, 2009, in Dresden Germany. RCC Representative: Yi Qian (yqian@ece.uprm.edu).

IEEE ICC 2009 Information and Network Security Symposium, to be held in June 14-18, 2009, in Dresden Germany. RCC Representative: Peter Mueller (pmu@zurich.ibm.com).

IEEE Globecom 2009 Wireless Communications Symposium, to be held in Hilton Hawaiian Village, USA, during 30 November to 4 December 2009. RCC Representative: Cheng Li (licheng@engr.mun.ca).

IEEE WCNC 2009, April 2009, Budapest; Andrea conti (a.conti@ieee.org)

2009 IEEE Radio and Wireless Symposium (RWS 2009) to be held in San Diego, CA, on 18 - 22 January 2009. RCC Representative: Abbas Jamalipour (a.jamalipour@ieee.org)

2009 IEEE International Conference on Ultra-Wideband (ICUWB09), to be held at Vancouver BC, Canada, during Sep. 9-11 2009. RCC Representative: Andreas Molisch (Andreas.Molisch@ieee.org)
Technical symposia/workshops/conferences sponsored by RCC (2/2)

- 7th international Workshop on Multi-Carrier Systems & Solution 2009 (MC-SS 2009), German Aerospace Center (DLR), May 05-06, 2009 in Herrsching, Germany. RCC Representative: Armin Dammann (armin.dammann@dlr.de)

- IEEE International Symposium on Wireless Communication Systems (ISWCS 2009), to be held on Sep. 7-10, 2009, at Siena, Italy. RCC Representative: Giovanni Giambene (GIAMBENE@UNISI.IT)

- SARNOFF Symposium 2009, to be held on Mar. 30-Apr. 1 2009 at Princeton University, USA. RCC Representative: Andreas Molisch (Andreas.Molisch@ieee.org)

- The Second IEEE International Workshop on Cross Layer Design (IEEE IWCLD 2009) , to be held on June 11-12 2009, Palma De Mallorca, Mallorca, Spain. RCC Representative: Mischa Dohler (mischa.dohler@cttc.es)

- IEEE Globecom 2010 Wireless Communications Symposium, to be held in a location of USA, during 30 November/December 2010. RCC Representative: Andrea Conti (a.conti@ieee.org)

- IEEE ICC 2010 Wireless Communications Symposium, to be held in May 23-27, in Capetown, South Africa. RCC Representative: Yi Qian (yqian@ece.uprm.edu)
ICC’09 Wireless Communications Symposium, Yi Qian

♦ Co-Chairs:
  - Sonia Aïssa, INRS, University of Quebec, Canada (WTC)
  - Nallanathan Arumugam, King's College, UK (WTC)
  - Erik Perrins, University of Kansas, USA (CTTC)
  - Yi Qian, National Inst. of Standards & Technology, USA (RCC)
  - Matthew Valenti, West Virginia University, USA (SPCE)
  - Takaya Yamazato, Noyoya University, Japan (SSC)

♦ Papers:
  - Active: 711 (~24% of ICC’09 submissions)
  - Withdrawn/moved to other symp.: 193
  - Acceptance: 35.86%

♦ TPC Members: 290

♦ Oral / Poster Sessions: 36 / 5 (based on Topic and not review score)
IEEE International Conference on Communications (ICC 2009)
Communications and Information Systems Security (CISS) symposium

Contact: Peter Mueller
Organizers (co-chairs): Raouf Boutaba, Stefanos Grzalis, Jiankun Hu, Peter Mueller

Technical program committee (TPC)
Number of members: 250
Review organization: 3 TPC reviews per manuscript (required by GITC)
### IEEE International Conference on Communications (ICC 2009)

**Communications and Information Systems Security (CISS) symposium**

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<td>Poster presentations:</td>
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ICC 09 Communication and Information Systems Security Symposium

- Technical co-chairs:
  - Raouf BOUTABA
  - Stefanos GRITZALIS
  - Jiankun HU
  - Peter Mueller (RCC representative)

- Number of TPC members: 280

- Number of submissions: 357
### ICC 09 CISS Authors Origin

<table>
<thead>
<tr>
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Acceptance rate is common to all ICC 09 Symposia:
- --% for oral presentations
- --% for posters

Papers accepted within the Communication and Information Systems Security Symposium
- --- in regular sessions
- --- in poster sessions
- Session organization and number:
  - ---
International Workshop on Synergies in Communications and Localization (SyCoLo 2009)

RCC Representatives: Ronald Raulefs (Ronald.Raulefs@dlr.de)

Workshop Co-Chairs:
Ronald Raulefs, German Aerospace Center (DLR)
Marco Luise, University of Pisa
Simon Plass, Xcitec GmbH

Total Submissions: 25, Accepted: 12, Rejected: 13
Acceptance ration: 48%

TPC members: 10
At least three (and up to 8) reviews per paper.
International Workshop on Synergies in Communications and Localization (SyCoLo 2009)

Sessions

The session were titled as follows
- Positioning with GNSS and Communication Systems
- Cooperative Positioning and Cognitive Radio
- Fingerprinting and Positioning Algorithms

Additionally there were two Keynote Speeches held by Moe Win from MIT, US and from David Park, Geospatial Research Centre, NZ.

Furthermore, one expert panel with Hans Schotten (Technical University Kaiserslautern, Germany), Dirk Slock (Eurecom, France), and Henk Wymeersch (Chalmers University (formerly MIT, US), Sweden).
Breakdown of **submitted** papers by country:
The distribution of the origin of the authors of accepted papers was as follows (percentage of submissions in brackets)

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International Workshop on Synergies in Communications and Localization (SyCoLo 2009)

- Breakdown of accepted papers by country:
The distribution of the origin of the authors of accepted papers was as follows (percentage of submissions in brackets)

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Globecom 2009 Wireless Communications Symposium

- **Symposium Co-chairs:**
  - Robert Schober, Univ. of British Columbia, Canada (Leading co-chair)
  - Cheng Li, Memorial Univ. of Newfoundland, Canada
  - Jingxian Wu, University of Arkansas, USA
  - Alberto Zanella, National Research Council (CNR), Italy

- **Total technical paper submission / Accepted:** 712 papers / 252 papers

- **Confirmed over 322 TPC members to serve for WCS**

- **Each paper assigned to three TPC members**

- **Suggested reference acceptance rate:** 35%

**Supporting TCs:** Wireless Communications, Radio Communications, Satellite & Space Communications, Signal Processing & Comm. Electronics, Communication Theory
Globecom 2009 WCS Paper Statistics

Authors by Country/Region

- USA 21%
- P.R. China 17%
- Korea 10%
- Canada 9%
- United Kingdom 6%
- Japan 6%
- Germany 3%
- Australia 3%
- France 2%
- Taiwan 2%
- Italy 2%
- India 2%
- Finland 2%
- Sweden 2%
- Hong Kong 1%
- Iran 1%
- Others 8%
## Globecom 2009 Wireless Communications Symposium

### Important Dates:

<table>
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<tr>
<th>Event</th>
<th>Date</th>
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<td>Camera-Ready Paper:</td>
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<td>Tutorial Proposal:</td>
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<td>Workshop Proposal:</td>
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Globecom 2009 Wireless Communications Symposium

There are 11 Symposia for Globecom 2009

1. Symposia on Selected Areas in Communications
2. Ad-Hoc, Sensor and Mesh Networking Symposium
3. Communication and Information System Security Symposium
4. Communication Theory Symposium
5. Communications QoS, Reliability and Modeling Symposium
6. Communications Software and Services Symposium
7. Next Generation Networking and Internet Symposium
8. Optical Networks and Systems Symposium
9. Signal Processing for Communications Symposium
10. Wireless Communications Symposium
11. Wireless Networking Symposium
New to this conference:

Rebuttal Process!
Radio Communications Committee (RCC) Meeting
Jun 2009, Dresden, Germany

WCNC 2009, April 2009, Budapest

Organization

Lajos Hanzo (General Chair)

General TPC
Chair:
Moe Win (MIT, USA)

Vice Chairs:
Andrea Conti (University of Ferrara, Italy)
Henk Wymeersch (MIT, USA)
Hamid Aghvami (King’s College London, UK)

MAC Track
Gianluca Mazzini (University of Ferrara, Italy)
Gil Zussman (Columbia University, USA)
Andrea Giorgetti (University of Bologna at Cesena, Italy)

Networking Track
Hussein Mouftah (University of Ottawa, Canada)
Ozgur Oyman (Intel, USA)
Kyungsup Kwak (Inha University, Korea)

PHY Track
Hyundong Shin (Kyung Hee University, Korea)
Alberto Zanella (CNR, Italy)
George Chrisikos (Qualcomm, USA)

Services Track
Louis Correia (University of Lisbon, Portugal)
Tony Quek (I2R, Singapore)
Paulo de Sousa (European Commission)

Tutorials
Marco Chiani (University of Bologna, Italy)
Andy Molisch (MERL/Lund University, Sweden)

National Representative
Geza Gordos

Sister Society Representative
Peter Nagy

Local Arrangements
Gyula Sallai
Submission/Acceptance

- MAC track: 299 S (134 A)
- NET track: 353 S (160 A)
- PHY track: 409 S (203 A)
- Services track: 97 S (43 A)
- Tutorials: 27 S (10 A)
- Total: 1185 S (550 A = 46%)
- Notifications sent out Nov 28

- S = submission, A = accept
Comments

- NEWCOM++ session
- TrackChair website
  - too many loopholes & side-effects (e.g., notifications, moving papers)
  - issues with file permissions, deadlines
  - very helpful admins

- Keynote speeches: Gerard Fetteweis, Andrea Goldsmith
6th International Symposium on Wireless Communication Systems 2009 (ISWCS 2009), 7-10 September, 2009, Siena, Italy

Giovanni Giambene, University of Siena, Italy - General Chair
Yuming Jiang, Norwegian University, Norway - General co-Chair
Boon Sain Yeo, SensiMesh Pte Ltd, Singapore - Finance Chair
Rajeev Shorey, GM Research, India - Technical Program Chair
Maria Luisa Merani, University of Modena and R. Emila, Italy - Panel Chair
Andreas Kassler, Karlstad University, Sweden - Tutorial Chair

http://www.iswcs.org/iswcs2009/

Total Submissions: 270
Accepted: 170
Rejected: 100
Acceptance ratio (oral+poster presentations): 62%
TPC members: 77
At least two (and up to four) reviews per paper.
ISWCS 2009 topics

- Cooperative communication systems
- Cognitive radio networks
- Radio resource management
- Wireless access techniques
- Cross-layer air interface design
- Mobile Internet
- Wireless privacy and security
- Wireless IP
- Wireless network architectures and technologies
- Digital signal processing
- Standardization in working groups IEEE 802.11, 802.15, and 802.16
- MANETs
- Vehicular Networks (VANETs)
- End-to-End QoS provision
- Coding modulation and equalization
- DVB and DAB techniques
- Novel wireless routing techniques
- Mobility management
- RFID networking
- MIMO
- Traffic control and engineering
- Wireless mesh networking
- Wireless sensor networks
- Innovative services and applications
ISWCS 2009 details

Plenary speakers:
- Giridhar D. Mandyam, Vice President of Technology, Qualcomm Internet Services
- Krishan Sabnani, Vice President of Networking Research, Bell Labs
- Henry Tirri, Head of Nokia Research Center, Nokia

Tutorials (September 7):
- "Mobility and Multiaccess in Emerging Internet Architectures", by Kostas Pentikousis
- "Robust Multiuser MIMO Transceiver Design Under Channel Uncertainty", by Michael Botros Shenouda, Timothy N. Davidson, Lutz Lampe
- "Cognitive Radios and Wireless Networks", by Petri Mähönen and Marina Petrova
- "Biologically-Inspired and Nano-scale Communication and Networking", by Falko Dressler and Ozgur B. Akan
ISWCS 2009 details

Panel Session (September 9), "Wireless Future: Green and Cooperative Networking?“

- Maria Luisa Merani – Panel Chair (University of Modena and Reggio Emilia, Italy)
- Bernard Barani (INFSOD European Commission, Belgium)
- Vijay Bhargava (University of British Columbia, Canada)
- Ing. Flavio Boano (Head of Technical Innovation Solution & Marketing, Alcatel-Lucent Italia, Italy)
- Giridhar Mandyam (Vice President of Technology, Qualcomm Internet Services, USA)
- Roberto Saracco (Director of the Future Centre of Telecom Italia, Italy)
- Reinaldo Valenzuela (Director of the Wireless Communications Research Dept., Bell Labs, Lucent Technologies, USA)
ISWCS 2009, submissions per area

Breakdown of papers by country: the distribution of the origin of the authors of submitted papers is as follows:

- Europe, Middle East, Africa: 79%
- Asia/Pacific: 16%
- Latin America: 3%
- United States: 2%
Related workshop IWSSC 2009 on Satellite Communications

- A parallel and co-located workshop to ISWCS 2009 is the 5th International Workshop on Satellite and Space Communications 2009 (IWSSC 2009), September 9-10, 2009.
- Web site: [http://iwssc09.dii.unisi.it/](http://iwssc09.dii.unisi.it/)
- 95 received submissions
- 4 tutorials
- 1 panel session
- 2 plenary talks:
  - Sastri Kota, Harris Corporation, "Next Generation Network Technologies for Emerging Services and Applications"
  - Nicolas Chuberre, Thales Alenia Space, "Trends in Mobile Satellite Systems"
Radio & Wireless Week – 2009

Radio & Wireless Symposium
18-22 January 2009
Omni Hotel, San Diego, CA

www.radiowirelessweek.org
www.radiowireless.org

General Chair
Afshin S Daryoush
Radio Communications Committee (RCC) Meeting

Jun 2009, Dresden, Germany

RWS’09 Steering Committee

- General Chair
  - Afshin Daryoush
- General Co-Chair
  - Abbas Jamalipour
- TP co-Chairs
  - Jenshan Lin/Tan F. Wong
- Publications co-Chairs
  - Jeremy Muldavin/Xiangdong Zhang
  - Norman Chiang/George Heiter
- Electronic Submission Co-Chairs
  - Jeremy Muldavin/Faranak Nekoogar
- Webmaster & Publicity co-Chairs
  - Takao Inoue/Luciano Boglione
- Workshop/Short Course Co-Chairs
  - George Ponchak/Helen Pan/Takao Inoue
- Student Paper Award co-chairs
  - Arye Rosen
  - Beatrice Cabon/Silvio Barbin
- Plenary Session Co-Chairs
  - Tibor Berceli/Aly Fathy
- Poster Sessions co-Chairs
  - Mehdi Shadaram/Jianping Yao
- Finance Chair
  - Asher Madjar/Sridhar Kanamaluru
- Registration Chair
  - Abbas Omar/Debabani Choudhury
- Panel/Rump Session Chairs
  - Jan-Erik Mueller/Guosen Yue
- Exhibit/Sponsorship co-chairs
  - Charlie Jackson/Ray Pengelly/Upkar Dhaliwal
- Local Arrangements Chair/Vice-Chair
  - Gabriel Rebeiz/Ahmad Khanifar/Upkar Dhaliwal
- Symposium Planning & Management
  - Jennifer More
- PAS Liaison
  - John Wood
- SiRF Liaison
  - Guofu Niu
- At Large (Advisors)
  - Dick Sparks/Steve Kenney
  - Ke Wu/George Heiter/Fred Schindler
- RWS Executive Committee chair
  - Mohammad Madihian
RWS Overall (Reg. & Late News) Paper Submission History

[Bar chart showing the number of RWS submissions from 2000 to 2009]
2009 Highlights

- High quality technical program standards (<60% acceptance)
- Good balance between Communications & Microwaves papers
  - Systems (COMSOC and VT-S)
  - Hardware (MTT-S and AP-S)
  - Opportunity for Special Issue in Microwaves and Communications Magazine?
- Registration: Passport 88 (128 in RWW08), RWS 248 (302), SiRF 77 (52) and PAS 95 (95)
- Modest registration fee increases for RWS and SiRF to offset more expensive F&B cost in San Diego (CA Tax)
- No fee increases for PAS
- Tabletop Exhibitors in Grand Foyer: 12 paying and 3 barter
- Event sponsors (Breakfast on Wednesday and PAS printing): 3 companies for $12k, and $6k+$4k support for student competition

Budgetary restriction due to low level of sponsorship and exhibitions
## Technical Program

<table>
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<th>Category</th>
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<th># sessions</th>
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<td>3</td>
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<tr>
<td>Transceivers and Front-end Technologies, SoC and SiP</td>
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<td>3</td>
<td>8</td>
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<tr>
<td>Signal Generation and Power Amplification</td>
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<td>MIMO, Signal Processing, and Smart Antennas</td>
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<td>Wireless Sensors and Ad-hoc Networks</td>
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<td>Software Defined Radios and Cognitive Radios</td>
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<td>High-speed and Broadband Wireless Technologies</td>
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<td>Wireless System Architectures and Modeling</td>
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<td>Emerging Wireless Technologies and Applications</td>
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<td>284</td>
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7th International Workshop on Multi-Carrier Systems & Solutions

5-6 May 2009, Herrsching, Germany

Workshop Co-Chairs:
Armin Dammann, German Aerospace Center
Simon Plass, Xcitec GmbH
Stefan Kaiser, DOCOMO Eurolabs
Khaled Fazel, Rohde & Schwarz

Total Submissions: 62
Accepted: 36
Rejected: 26
Acceptance ration: 58%
TPC members: 24
Workshop attendees: 60
Sessions

- MIMO
- General Issues I
- Channel Estimation
- Channel Characterization & Estimation
- Long Term Evolution (LTE)
- PAPR
- Adaptive Transmission
- Modulation & Demodulation
- Performance Evaluation
- Spectrum & Interference
- General Issues II

Additionally there was a Exhibition/Demonstration Track during the whole workshop showing 3 different demonstrators for the topics “positioning” and “software defined radio”.

### 7th International Workshop on Multi-Carrier Systems & Solutions

Papers by Regions/Countries

<table>
<thead>
<tr>
<th>Region</th>
<th>Papers</th>
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<tr>
<td><strong>Europe</strong></td>
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<td>Germany</td>
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<td>Canada</td>
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<td>USA</td>
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ICC’10 Wireless Communications Symposium, Yi Qian

Co-Chairs:
- **Yi Qian**, National Inst. of Standards & Technology, USA (RCC)
- **Ranjan K. Mallik**, Indian Institute of Technology – Delhi, India (WTC)
- **Sennur Ulukus**, University of Maryland at College Park, USA (CTTC)
- **Wei Chen**, Tsinghua University, China (WTC)

No. of Papers expected:
- 800

TPC Members:
- invited 232 people through EDAS
- 160 accepted the invitations already
- We plan to invite more to get 200 TPC members to serve on our WCS
ICC 10 Wireless Communications Symposium

- Technical cochairs:
  - Yi Qian (RCC) – leading co-chair
  - Ranjan Mallik (WTC)
  - Sennur Ulukus (CTTC)
  - Wei Chen (WTC)

- Expect to invite 250 TPC members to serve for WCS

- Expect to receive about 800 paper submittions

- Each paper will assign to three TPC members
ICC 10 Wireless Communications Symposium

There will be 11 Symposia for ICC 2010

1. Symposia on Selected Areas in Communications
2. Communication Theory Symposium
3. Signal Processing for Communications Symposium
4. Wireless Communications Symposium
5. Wireless Networking Symposium
6. Optical Networks and Systems Symposium
7. Next Generation Networking Symposium
8. Communications QoS, Reliability and Modeling Symposium
9. Ad hoc and Sensor Networking Symposium
10. Communications Software and Services Symposium
11. Communication and Information System Security Symposium
ICC 10 Wireless Communications Symposium

Important Dates:

- Paper Submission: 4 Sept. 2009
- Accept. Notification: 10 Jan. 2010
- Camera-Ready Paper: 10 Feb. 2010
- Workshop Proposal: 15 May 2009
IEEE Globecom 2010, Andrea Conti

- The location of GC10 is Miami, USA.

Co-chairs:

- Jalel Ben-Othman, University of Versailles, France, jbo@prism.uvsq.fr
- Jun Cai, University of Manitoba, Canada, jcai@ee.umanitoba.ca
- Andrea Conti, University of Ferrara, Italy, a.conti@ieee.org
- Jianwei Huang, Chinese University of Hong Kong, China, jwhuang@ie.cuhk.edu.hk
- Sana Sfar, InterDigital Communications, USA, Sana.Sfar@ieee.org
- Liuqing Yang, University of Florida, USA, lqyang@ece.ufl.edu
IEEE Globecom 2010, WCS Topics

Wireless Air Interface and Link Control
- Modulation, coding, and diversity techniques for wireless
- Cognitive radio and software defined radio
- Ultra-wideband communications (UWB)
- MIMO and multi-antenna communications
- Space-time coding and processing
- OFDM and multi-carrier systems
- Smart Antennas
- CDMA, TDMA, FDMA air interfaces
- Detection and estimation
- Cross-layer Design and Physical layer based Network Issues
- PHY-Layer Security
- Localization Techniques
- Distributed multipoint, relay assisted, and cooperative communications
- Wireless communications testbed development
IEEE Globecom 2010, expected submissions and TPC

The co-chairs of the symposium expect 700-750 submissions as from the history

WCS (Wireless Communications): GC08(672), ICC09(711), GC09 (711)

There is a first tentative (under construction) list of almost 200 TPC members

CfP uploaded at

Special issues on IEEE Journals/Magazines
Standard Activities

All IEEE standard activities have been listed in RCC website at the link

http://rcc.bo.cnit.it/ieeestardand.htm
New Business Items
Next RCC Meeting

The next RCC meeting will be scheduled in GC 2009, Honolulu, Hawaii

THANK YOU AND
SEE YOU THEN!
Contacts

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University of Southern California, USA
http://wides.usc.edu
E-mail: andreas.molisch@ieee.org

Vice-Chair: Davide Dardari
University of Bologna, Italy
http://www-csite.deis.unibo.it/Staff/dardari.html
E-mail: ddardari@ieee.org

Secretary: Andrea Conti
University of Ferrara, Italy
http://www.andreaconti.info
E-mail: a.conti@ieee.org

RCC Website:
http://www.comsoc.org/socstr/org/operation/techcom/radio.html