IEEE Communications Society
TECHNICAL COMMITTEE
ON
Communications Quality & Reliability

http://www.comsoc.org/~cqr/index.html

Committee Meeting
CQR Chair: Chi-Ming Chen
presented by Advisory Board Chair: Kenichi Mase

June 16, 2009
ICC2009, Dresden, Germany
Agenda

- CQR Background and Activities
- Charter
- 2009 TC Events
  - Election (every 2 years)
  - Chairman’s Awards (every year)
  - TC Recertification (every 3 years)
- Strategic and Technical Programs
  - CQR2009
  - ICCs and GLOBECOMs
  - Planning of CQR2010
- Group Discussions
CQR Background and Activities (I)

• **CQR**: Technical Committee on Communications Quality & Reliability

• Established in 1986 as **QAMC** (Quality Assurance Management Committee)

• One of the **25** Technical Committees of IEEE Communications Society (**ComSoc**)  

• IEEE is celebrating its **125th Anniversary**  
  (May 13, 1884)
# ComSoc Technical Committees

<table>
<thead>
<tr>
<th>TC Cluster</th>
<th>Technical Committee (TC)</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>COMMUNICATION SOFTWARE &amp; SERVICES (CS&amp;S)</strong></td>
<td>Communications &amp; Information Security (CIS-TC) Communications Software (CommSoft) Information Infrastructure (TCII) Multimedia Communications (MMC) Network Operations and Management (CNOM)</td>
</tr>
<tr>
<td><strong>COMMUNICATIONS/SIGNAL PROCESSING (C/SP)</strong></td>
<td>Communication Theory (CTTC) Data Storage (TCDS) Power Line Communications (BOPL) Broadband Over Power Lines Radio Communications (RCC) Satellite and Space Communications (SSC) Signal Processing and Communications Electronics (SPCE) Transmission, Access and Optical Systems (TAOS)</td>
</tr>
<tr>
<td><strong>NETWORKING (NET)</strong></td>
<td>Ad Hoc &amp; Sensor Communications &amp; Networks (AHSNTC) Cognitive Networks (TCCN) Communications Switching &amp; Routing (TC CSR) Computer Communications (TCCC) High-Speed Networking (TCHSN) - formerly Gigabit Networking Internet Optical Networking (ONTC)</td>
</tr>
<tr>
<td><strong>VERTICAL ISSUES IN COMMUNICATION SYSTEMS (VICS)</strong></td>
<td>Communications Quality and Reliability (CQR) Communications Systems Integration &amp; Modeling (CSIM) Enterprise Networking (EntNet) Tactical Communications and Operations Wireless Communications</td>
</tr>
</tbody>
</table>
CQR: Background and Activities (II)

- First workshop in 1986, Hotel LaSapinière, Val David, Quebec, Canada
- Holds annual international workshops, except 1996 and 2003
- Hosting the annual workshop is becoming very challenging to keep the cost down (CQR Workshop registration fee covers everything: Workshop, hotel, events, meals)
- Three Committee Meetings each year:
  - Last one: CQR2009 Workshop, May 13, Naples, Florida, USA
  - Today: ICC2009, Tuesday, June 16, Dresden, Germany
  - Next one: GLOBECOM 2009, Dec. 1-3, Honolulu, Hawaii, USA
CQR Charter

- Revised August 2006
- Focuses on and advocates worldwide communications quality and reliability on behalf of, and within, the Communications Society.
- Serves as the catalyst for global awareness and the exchange of information relative to technical and management-related aspects of communications quality and reliability. This also extends to security of the telecommunications network.
- CQR technical subject matter includes:
  I. **Service** Quality and Reliability
  II. **Network** Quality and Reliability
  III. **Product and System** Quality and Reliability
Officer Team (2008 – 2009)

Chair: Chi-Ming Chen, AT&T
Chair Elect: Hiromi Ueda, Tokyo Univ. of Technology
Vice-Chair-Operations: Hideaki Yoshino, NTT
Vice-Chair-Programs: Peter Hoath, BT
Vice-Chair-Publications: Anil Macwan, Alcatel-Lucent
Secretary: Go Hasegawa, Osaka Univ.
Treasurer: Kevin Krantz, Nortel

Advisory Board

Kenichi Mase (Advisory Board Chair), Niigata Univ.
Karl Rauscher (Advisory Board Chair Emeritus), Alcatel-Lucent
Koichi Asatani, Kogakuin Univ.
Kelly Krick, Nortel
Raymond Bonelli, Consultant
2009 Election

- 6 Positions for election (2010-2011 Term)
  - (Current Chair Elect becomes Chair)
  - Chair Elect
  - Vice-Chair-Operations
  - Vice-Chair-Programs
  - Vice-Chair-Publications
  - Secretary
  - Treasurer

- Chair of the Advisory Board to conduct the election
- Ballots to be sent by email
- List of Members is being updated for correct email addresses
- Election results will be announced in GC’09 TC meeting
CQR Chairman’s Awards

- Established in 2004
- Criteria upon which recipients were selected include:
  - sustained contributions in the field of Quality, Reliability & Security of communications services, networks or systems;
  - a demonstration of the core value of a professional society- adding value to others; and
  - integrity consistent with that of a role model
- Nominated by CQR Officers and Members of the Advisory Board with nomination material
- Number of recipients 2004-2009: 5, 5, 3, 4, 2, 3
TC Recertification

- All Communications Society (ComSoc) TCs are subject to recertification every 3 years
- Last time was in 2006; Will be recertified this year
- Long list of 31 questions to be answered
- Result can be pass (with suggestions to improve) or on probation
- CQR TC is very active in ComSoc. Passing the recertification is expected
Strategic and Technical Programs

- **Strategic (Industry Focused)**
  - Annual International Workshops
  - Special Hot Topic Workshops

- **Technical (Academia Focused)**
  - ICC
  - GLOBECOM

- **Combined**
  - Technical paper track in the annual workshop (Best Paper Award; Accepted papers on IEEE Xplore)
  - Publications (e.g., ComMag)
Strategic Program - CQR2009

- CQR annual workshop is now categorized as a ComSoc “Portfolio Event” (Major Event)
- CQR2009 was held on May 12-14, Naples, Florida
- 3 Themes in the Strategic Track: Service, Network, and Global Operations & Outsourced Models
- Keynote Speakers: Kowsik Guruswamy (Mu Dynamics) and Chris Mayer (Verizon)
- Executive Panel
- 3 Sessions in the Technical Track; 2 Best Paper Awards
- 2009 Chairman’s Awards were presented to Adam Drobot (Telcordia), Judy Harkins (Gallaudet Univ.) and Masayuki Murata (Osaka Univ.)
- 73 attendees from USA, Japan, UK, France, Canada and Norway (Some had to cancel due to the Swine Flu situation).
## QoS, Reliability, Perf Modeling Symposia of ICCs and GCs

<table>
<thead>
<tr>
<th>Year</th>
<th>ICC</th>
<th>GLOBECOM</th>
</tr>
</thead>
<tbody>
<tr>
<td>2008</td>
<td>5/19-23, Beijing, China Hiromi Ueda</td>
<td>11/30 – 12/4, New Orleans Toshinori Tsuboi</td>
</tr>
<tr>
<td>2009</td>
<td>6/14-18, Dresden, Germany Hiromi Ueda</td>
<td>11/30 – 12/4, Honolulu Hajime Nakamura</td>
</tr>
<tr>
<td>2010</td>
<td>5/23-27, Cape Town, South Africa Toshinori Tsuboi</td>
<td>12/6-10, Miami Hideaki Yoshino</td>
</tr>
<tr>
<td>2011</td>
<td>6/5-9, Kyoto, Japan Toshinori Tsuboi</td>
<td>Huston, US Hideaki Yoshino</td>
</tr>
</tbody>
</table>

- With Communications Systems Integration & Modeling (CSIM) TC
- Additionally for GC’09, Chi-Ming Chen is serving as the Business Forums Chair, and Hiromi Ueda is the Asia Pacific Publicity Chair
### Statistics of Papers

<table>
<thead>
<tr>
<th>Conf.</th>
<th>Submitted</th>
<th>Accepted</th>
<th>A/S Ratio</th>
<th>Organization (presentation sessions and poster sessions)</th>
</tr>
</thead>
<tbody>
<tr>
<td>ICC2008</td>
<td>221</td>
<td>74</td>
<td>33.5%</td>
<td>(10, 3)</td>
</tr>
<tr>
<td>GC2008</td>
<td>198</td>
<td>71</td>
<td>35.8%</td>
<td>(10, 2)</td>
</tr>
<tr>
<td>ICC2009</td>
<td>178</td>
<td>63</td>
<td>35.4%</td>
<td>(9, 1)</td>
</tr>
<tr>
<td>GC2009</td>
<td>213</td>
<td>*</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

* Review is underway
* Acceptance to be discussed in ICC2009, Dresden, June 14-18, 2009
* Acceptance notification date: July 1, 2009
Planning of CQR2010 Workshop

Dates: June 8 – 10, 2010
Place: The Westin Bayshore, Vancouver
1601 Bayshore Drive
Vancouver, British Columbia V6G 2V4 · Canada
http://www.westin.com/bayshore

General Program Co-Chairs:
- James Runyon, Alcatel-Lucent
- Martin Guldberg, Verizon Wireless

Technical Program Chair and Secretary:
- Prof. Y. Ishibashi 石橋 豊, Nagoya Institute of Tech.
- Prof. S. Sugawara 菅原真司, Nagoya Institute of Tech.

Workshop URL http://www.ieee-cqr.org/
CQR2010 - Technical Program

Scope

Various aspects of QoS and Reliability for the following topics:

- Grid and Distributed Computing
- Mobile and Ad Hoc Networks
- Overlay Networks
- Multimedia Networks and VoIP Services
- VPN, MPLS and Multicast Services
- Web Services
- Broadband Audio Visual Services
- Multi-sensory Communications
- Current and Next-generation Internet
- Emerging Technologies and Services
CQR2010 - Technical Program

Scope

The detailed technical areas includes

- Measurements Techniques
- Network Architecture and Design
- Network Security
- Network Survivability
- Operations, Administration and Maintenance
- QoS Metrics and Measurement
- QoS Policy and Assessment
- QoE Assessment and Management
- Traffic Control
- Traffic Modeling and Characterization
CQR2010 - Technical Program
Important Dates

• January 12, 2010
  – Paper submission deadline
• March 15, 2010
  – Notification of acceptance mailed to authors
• April 12, 2010
  – Camera-ready paper submission deadline
• June 8-10, 2010
  – CQR 2010 Workshop
Submission

- Papers should describe original work, and be four to six two-column and single-spaced pages in IEEE conference style.
- The cover page should clearly indicate the complete postal and electronic mailing addresses, as well as the phone and fax numbers of the contact author.
- Paper submissions must be made electronically via e-mail attachment in PDF format to cqr-submission@ieee-cqr.org.
- Hardcopy submissions will not be accepted.
- For more information, please visit: http://www.ieee-cqr.org/
CQR2010 TPC members (tentative 1/2)

- Yutaka Ishibashi (Chair) Nagoya Institute of Technology Japan
- Shinji Sugawara Nagoya Institute of Technology Japan
- Go Hasegawa Osaka University Japan
- Toru Hasegawa KDDI R&D Laboratories Inc. Japan
- Kenji Hikichi Fujitsu Japan
- Hideaki Imaizumi University of Tokyo Japan
- Ryoichi Kawahara NTT Japan
- Takumi Miyoshi Shibaura Institute of Technology Japan
- Tutomu Murase NEC Japan
- Hidenori Nakazato Waseda University Japan
- Hitoshi Ohnishi The Open University of Japan Japan
- Katsunori Yamaoka Tokyo Institute of Technology Japan
- Tokumi Yokohira Okayama University Japan
- Tetsuya Yokotani Mitsubishi Electric Corporation Japan
- Paolo Bellavista Universita di Bologna Italy
- Rocky K. C. Chang The Hong Kong Polytechnic University HK
- Chi-Ming Chen AT&T USA
- Kuan-Ta Chen Academia Sinica Taiwan
- Yacine Ghamri Doudane Institut d'Informatique d'Entreprise France
## CQR2010 TPC members (tentative 2/2)

<table>
<thead>
<tr>
<th>Name</th>
<th>Institution</th>
<th>Country</th>
</tr>
</thead>
<tbody>
<tr>
<td>Nelson Fonseca</td>
<td>State University of Campinas</td>
<td>Brasil</td>
</tr>
<tr>
<td>Fabrizio Granelli</td>
<td>University of Trento</td>
<td>Italy</td>
</tr>
<tr>
<td>JongWon Kim</td>
<td>Gwangju Institute of Science and Technology</td>
<td>Korea</td>
</tr>
<tr>
<td>Dan Keun Sung</td>
<td>KAIST</td>
<td>Korea</td>
</tr>
<tr>
<td>Ning Wang</td>
<td>University of Surrey</td>
<td>UK</td>
</tr>
<tr>
<td>Jing Wu</td>
<td>Communication Research Center Canada</td>
<td>Canada</td>
</tr>
<tr>
<td>Weider Yu</td>
<td>San Jose State University</td>
<td>USA</td>
</tr>
<tr>
<td>Homayoun Yousefi'zadeh</td>
<td>University of California, Irvine</td>
<td>USA</td>
</tr>
</tbody>
</table>
Group Discussions