IEEE Communications Society
TECHNICAL COMMITTEE
ON
Communications Quality & Reliability

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

Committee Meeting
CQR Chair: Chi-Ming Chen

December 2
GLOBECOM2008, New Orleans, USA
Agenda

• Welcome
• CQR Background and Activities
• Officers
• Charter
• Chairman’s Awards
• Strategic and Technical Programs
• ICCs and GLOBECOMs
• Planning of CQR2009 and Future Workshops
• Member Services
• A Publication Proposal
• Adjourn
CQR Background and Activities (I)

- CQR: Technical Committee on Communications Quality & Reliability
- Established in 1986 as QAMC (Quality Assurance Management Committee)
- One of the 24 Technical Committees of IEEE Communications Society (ComSoc).
- CQR was recertified by ComSoc in 2006 (every 3 years)

http://www.comsoc.org/socstr/org/operation/techcom/committees.html
## ComSoc Technical Committees

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

- Holds annual international workshops, except 1996 and 2003
- First workshop in 1986, Hotel LaSapinière, Val David, Quebec, Canada
- Hosting the annual workshop is becoming very challenging (how to keep the cost down and still covers everything: Workshop, Hotel, Events, Meals)
- Three Committee Meetings each year:
  - Last one: ICC2008, May 21, Beijing, China
  - Today: GC’08, Dec. 2, New Orleans, USA
  - Next one: CQR2009 Workshop, May 12-14, 2009, Naples, FL
- Meeting presentations and minutes are posted on the CQR web http://www.comsoc.org/~cqr/TC-Meetings.html
- Holds elections every two years (next election: 2009)
Officer Team (2008 – 2009)

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

**Advisory Board**

Kenichi Mase (Advisory Board Chair), Niigata Univ., Japan  
Karl Rauscher (Advisory Board Chair Emeritus), Alcatel-Lucent  
Koichi Asatani, Kogakuin Univ., Japan  
Kelly Krick, Nortel Networks  
Raymond Bonelli
CQR Charter

• Revised August 2006
• Focuses on and advocates worldwide communications 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
CQR Chairman’s Award

- 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
- Number of recipients 2004-2008: 5, 5, 3, 4, 2
Strategic and Technical Programs

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

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

- **Combined**
  - Technical track in the annual workshop
  - Publications

From
- Technical Programs
- Strategic Programs

To
- Strategic Programs
- Technical Programs
- Publications
Strategic Program - CQR2008

- CQR annual workshop is now categorized as a ComSoc “Major” conference
- CQR2008 was held on April 29 – May 1, Carefree, Arizona
- 3 Themes in the Strategic Track: Global Operations, Next Generation Networks, Network Disaster Recovery and Business Continuity
- 4 Sessions in the Technical Track; 3 Best Paper Awards
- Keynote Speakers: Adam Drobot (Telcordia), Kevin Peters (AT&T), and Robert Nowill (BT)
- Executive Panel and Distinguished Experts Panel
- 2008 Chairman’s Awards presented by ComSoc President Doug Zuckerman and CQR Chair Chi-Ming Chen to Karl Rauscher and Hossein Eslambolchi
- 78 attendees from USA, Japan, UK, China, France, Germany and Israel.
Strategic Program - Hot Topic Workshops

Workshops on Availability and Robustness of Europe's Future Communications Networks

<table>
<thead>
<tr>
<th>Workshop 1</th>
<th>Power &amp; Environment</th>
<th>Rome, Italy</th>
<th>October 3, 2006</th>
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<tr>
<td>Workshop 3</td>
<td>Hardware &amp; Software</td>
<td>Berlin, Germany</td>
<td>October 11, 2006</td>
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<td>Workshop 4</td>
<td>Policy &amp; Human</td>
<td>Brussels, Belgium</td>
<td>November 15, 2006</td>
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Final ARECI Report (Availability and Robustness of Electronic Communications Infrastructure) is posted on the European Commission website http://ec.europa.eu/information_society/newsroom/cf/itemdetail.cfm?item_id=3334

In the report, “Special appreciation” is expressed to CQR for the support (page 127)
Priority Communications Workshop

• Where & When: Bratislava, Slovakia, September 23, 2008

• Purpose: to advance the technical and policy understanding associated with the implementation of a priority communications capability over public communications networks

• Such a capability was presented in 2007 as a recommendation of the European Commission-sponsored Study on the Availability and Robustness of Electronic Communications Infrastructures (ARECI) and has since been well received by government and industry stakeholders in Europe and elsewhere

• The workshop ended with two focus groups examining issues related to: 1) Reliability and Security of Priority Communications and 2) Future Priority Communications

• The Workshop material is available on

http://www.comsoc.org/~cqr/Slovakia.html
Co-Chair QoS, Reliability, Perf Modeling Symposia of ICCs and GCs

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<tr>
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<th>ICC</th>
<th>GLOBECOM</th>
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<tr>
<td>2008</td>
<td>Hiromi Ueda</td>
<td>Toshinori Tsuboi</td>
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<td>2009</td>
<td>Hiromi Ueda</td>
<td>Hajime Nakamura</td>
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<td>2010</td>
<td>Toshinori Tsuboi</td>
<td>Hideaki Yoshino</td>
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<tr>
<td>2011</td>
<td>Toshinori Tsuboi</td>
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- Additionally for GC’09, **Chi-Ming Chen** is served as the Business Forums Chair, and **Hiromi Ueda** is the Asia Pacific Publicity Chair
- Co-chairs of GC2010 and ICC2011 are newly appointed
Technical Program – ICC2008
QoS, Rel, Perf. Modeling Symposium

• ICC2008, May 19-23, Beijing, China
• Hiromi Ueda, Symposium Co-Chair (with CSIM-TC*)
• 221 papers submitted, 74 accepted (33.5%)
• 10 presentation sessions and 3 poster sessions

* Communications Systems Integration & Modeling TC
Technical Program – GC2008
QoS, Rel, Perf. Modeling Symposium

• GC2008, Nov. 30 – Dec. 4, New Orleans, USA
• Toshinori Tsuboi, Symposium Co-Chair (with CSIM-TC*)
• 198 papers submitted, 71 accepted (35.8%)
• 10 presentation sessions and 2 poster sessions

* Communications Systems Integration & Modeling TC
Technical Program – ICC2009
Communications QoS, Reliability, and Modelling (CQRM) Symposium

• ICC2009, June 14-18, Dresden, Germany
• Hiromi Ueda, Symposium Co-Chair (with CSIM-TC*)
• 178 papers submitted and have been reviewed

* Communications Systems Integration & Modeling TC
**Planning of CQR2009 Workshop**

Dates: **Tuesday, May 12 – Thursday, May 14, 2009**
Place: The Naples Beach Hotel & Golf Club
851 Gulf Shore Boulevard North
Naples, Florida 34102

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

Technical Program Chair:
- Professor Masayuki Murata, Osaka Univ. Japan
- Professor Go Hasegawa, Osaka Univ. Japan

CQR2009 International Workshop

• Technical Paper Track
  – Accepted papers will be on IEEE Xplore

• Industry/Strategic Track: 3 Themes, one per day
  – Services: Theme Chair, Mike Ryan, Verizon Wireless
  – Networks: Theme Chair, Scott Poretsky, Allot Communications
  – Global Operations & Outsourced Models: Theme Chair, Fiona Ham, BT

• Executive Panel: Chair, Kelly Krick, Nortel
CQR2009 - Technical Program

Scope

Various aspects of QoS and Reliability for the following networks/services:

– 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
– Current and Next-generation Internet
– Emerging Technologies and Services
The detailed technical areas includes

- Measurements Techniques
- Network Architecture and Design
- Network Security
- Operations, Administration and Maintenance
- QoS Metrics and Measurement
- QoS Policy and Assessment
- Traffic Control
- Traffic Modeling and Characterization
CQR2009 - Technical Program
Important Dates

• December 15, 2008
  – Paper submission deadline

• February 16, 2009
  – Notification of acceptance mailed to authors

• March 16, 2009
  – Camera-ready paper submission deadline

• May 12-14, 2009
  – CQR 2009 Workshop
Submission

• Papers should describe original work, and be four 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/
CQR2009 TPC members (as of May 22, 2008)

- Masayuki Murata (Chair) Osaka University Japan
- Go Hasegawa Osaka University Japan
- Toru Hasegawa KDDI R&D Laboratories Inc. Japan
- Kenji Hikichi Fujitsu Japan
- Hideaki Imaizumi University of Tokyo Japan
- Takumi Miyoshi Shibaura Institute of Technology Japan
- Tutomu Murase NEC Corp. Japan
- Hidenori Nakazato Waseda University Japan
- Kawahara Ryoichi NTT Japan
- Katsunori Yamaoka Tokyo Institute of Technology Japan
- Tetsuya Yokotani Mitsubishi Electric Corporation Japan
- Tokumi Yokohira Okayama University Japan
- Paolo Bellavista Universita di Bologna Italy
- Albert Banchs Universidad Carlos III de Madrid Spain
- Rocky K. C. Chang The Hong Kong Polytechnic University HK
- Chi-Ming Chen AT&T USA
- Nelson Fonseca State University of Campinas Brasil
- Yacine Ghamri Doudane Institut d'Informatique d'Entreprise France
- Stefano Giordano University of Pisa Italy
- Michael Menth University of Wurzburg Germany
- Juergen Quittek NEC Europe Germany
- Dan Keun Sung KAIST Korea
- Weider Yu San Jose State University USA
Workshops beyond 2009

• Vancouver, Canada, after the 2010 Winter Olympics
• China
• Japan (1994, 2002)
• Hawaii
• US West Regions
Member Services / Communications

• 3 TC/Member Meetings per year: CQR workshop, ICC, GLOBECOM

• Promotion of member grade elevation
  – From member to Senior Member (several members became SM recently)
  – From Senior Member to Fellow (Hiromi Ueda, Class of 2008)
  – To set an example, we ask all officers to apply for SM or above
  – For more info, please see CQR Home Page

• Quarterly or semi-annually newsletters to members is being considered

• Recommend Distinguished Lecturers

• Publication opportunities for members

• Joint activities with other TCs
ComMag Feature Topic Issue Proposal

- **Proposed feature topic**: Network Disaster Recovery
- **Scope**: Challenges, Strategies, Field Performance
  Results as seen by major service providers and business customers; Lessons learned from recent disasters
- Formed the Guest Editors team (3 Guest Editors)
- Collected abstracts from interested authors: AT&T, NTT, Alcatel-Lucent, China Mobile (lessons learned from the recent earthquake), …
- Submitted the proposal to the Editor Board of ComMag on Oct. 8, 2008
- If accepted: review, revision and publish
  (estimated publication date: 2H09)
IEEE Distinguished Lecturers

• Nominated one candidate

• In October, CQR’s Koichi Asatani completed his Distinguished Lecture Tour in Chicago, New Jersey, Boston, and Hawaii. The topic is “Trends of Next Generation Networks and Its Issues”

  http://ewh.ieee.org/r1/njcoast/DLT08NJAsataniDistF[1].pdf
Reminders before Adjourn

• Upgrade your IEEE membership to Senior Member or Fellow
  
http://www.comsoc.org/join/index.html

• Mark CQR2009 on your calendar
  
  Tuesday, May 12 – Thursday, May 14, 2009, Naples, Florida

• Next TC meeting, May 12-14, CQR2009, Naples, Florida, USA

• See you in Naples, FL, USA; Dresden, Germany; Honolulu, Hawaii

Thank you!