COMMUNICATION THEORY
TECHNICAL COMMITTEE

GLOBECOM DECEMBER 2015

Chair: Matthew Valenti
Vice-Chair: Erik Perrins
Secretary: Maite Brandt-Pearce
1. Welcome and Introduction
2. Approval of Minutes from 2015 IEEE ICC meeting (available at http://committees.comsoc.org/comt/)
3. Chair Remarks
4. Communication Theory Symposium Reports:
   - Globecom 2015 (Octavia Dobre)
   - ICC 2016 (Marios Kountouris)
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   - CTW 2016 (Marios Kountouris)
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   - CTW 2018 Proposal (David Love)
6. CTTC Awards
   - Outstanding Service Award
   - Technical Achievement Award
7. New Business
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We hold meetings twice per year:
- At ICC and Globecom.

Become a member by joining the mailing list.
- [http://committees.comsoc.org/comt/mailinglist.html](http://committees.comsoc.org/comt/mailinglist.html)

You are an active member if:
- Attend 2 of the past 5 meetings; or
- Attend last two CTWs; or
- Provide significant service to the committee.

Currently, ~400 members, ~150 of which are active.
OFFICERS

- **Chair**
  - Matthew Valenti
  - West Virginia University

- **Vice-Chair**
  - Erik Perrins
  - University of Kansas

- **Secretary**
  - Maite Brandt-Pearce
  - University of Virginia
OTHER POSITIONS

Standards Liason
- Sana Sfar

Student Competition Program
- Hideki Ochiai
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Computer Vision Technical Committee (CTTC)
ICCS 2015, London, UK
10 June 2015

EXECUTIVE SUMMARY

1. The minutes from the Globecom 2014 meeting were approved.
2. Reports were given for ICC 2015, Globecom 2015, ICC 2016, CTW 2015,
3. CTTC awards were presented.
4. A proposal was discussed for a new Communication Theory Workshop
   Steering Committee.
5. In new business, a new COMSOC-sponsored journal was announced
   (IEEE Transactions on Molecular, Biological and Multi-scale Communications).
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WHAT DOES CTTC DO?

- Oversight of the Communication Theory Workshop
- Sponsorship of GC and ICC symposia
  - Primary symposium: Comm Theory
- Recognize member accomplishment through:
  - IEEE Fellow endorsement
  - IEEE Distinguished Lecturer endorsement
  - CTTC Awards in Technical Achievement and Outstanding Service
CONGRATULATIONS
NEW IEEE FELLOWS

- Erik Larsson
- Hlaing Minn
- Petar Popovski
- Sundeep Rangan
- Osvaldo Simone
- Sennur Ulukus
- Jinhong Yuan
## UPCOMING CONFERENCE VENUES

<table>
<thead>
<tr>
<th>Conference</th>
<th>Location</th>
<th>Date</th>
</tr>
</thead>
<tbody>
<tr>
<td>ICC’16</td>
<td>Kuala Lumpur</td>
<td>23-27 May 2016</td>
</tr>
<tr>
<td>GC’16</td>
<td>Washington, DC</td>
<td>4-8 Dec 2016</td>
</tr>
<tr>
<td>ICC’17</td>
<td>Paris</td>
<td>21-25 May 2017</td>
</tr>
<tr>
<td>GC’17</td>
<td>Singapore</td>
<td>4-8 Dec 2017</td>
</tr>
<tr>
<td>ICC’18</td>
<td>Kansas City</td>
<td>20-24 May 2018</td>
</tr>
<tr>
<td>GC’18</td>
<td>Abu Dhabi</td>
<td>9-13 Dec 2018</td>
</tr>
<tr>
<td>ICC’19</td>
<td>Shanghai</td>
<td>20-24 May 2019</td>
</tr>
<tr>
<td>GC’19</td>
<td>Hawaii (Big Island)</td>
<td>Dec 2019</td>
</tr>
</tbody>
</table>
Best Readings is a curated collection of previously published books, articles, and papers on a featured topic

- Published quarterly at http://www.comsoc.org/best-readings
- Modeled after the old IEEE series of compendiums
- Links to the source reference with short descriptions
- Helpful to those who want to acquire a background on the topic

Examples

- Massive MIMO
- Cognitive Radio
- Multi-Tier Cellular
- Green Communication
- Nanoscale Communication

Matt is EiC

- Give me ideas for topics
- Let me know if you would like to guest edit
WANT TO BECOME MORE INVOLVED?

- Volunteer to be on the TPC for an upcoming Comm Theory Symposium
  - GC’16: Contact Petar, Phillipa, or Jinhong
- Volunteer to be a symposium chair
  - We have made nominations through GC’17
  - We have a (short) waiting list --- could use more volunteers
  - Contact Matt, and include your bio
- Standards liaison or student award rep
- Get involved w/ the organization of a CTW
  - Need proposals for CTW’19 onwards
  - Positions available for CTW’17 and CTW’18
- Organize a Best Readings
MAILING LIST GUIDELINES

- Email list is comm-theory@ieee.org
  - Must be subscribed to send.
  - Moderated: Must be approved by Maite or Matt.
- What is appropriate use of the email list?
  - This point was covered in our meeting at Globecom-2011 (Houston).
- Acceptable uses:
  - CTTC-business: Meeting announcements, minutes, etc.
  - CFP for CTTC sponsored events: CTW and CT Symposia.
  - CT-related job openings posted by CT members: Postdoc, faculty.
- Not-acceptable:
  - CFP’s for conferences and workshops that are widely known.
- Debatable:
  - Openings for graduate students: Ph.D. assistantships.
  - Niche workshops targeted to the CT community.
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GLOBECOM 2015
COMM. THEORY SYMPOSIUM

- **Co-chairs**
  - Octavia Dobre, Memorial University, Canada
  - Xiang Cheng, Peking University, China
  - Kaushik Chakraborty, Qualcomm Inc., USA

- **Submission**
  - Total Submissions: 166
  - Accepted Papers: 59
  - Acceptance Rate: 35.5%

- **TPC Statistics**
  - Number of TPC members = 137
  - Average number of reviews per member = 4

- **10 Oral Sessions**
The Best Paper Award in the Communication Theory Symposium

Xinchen Zhang, Francois Baccelli and Robert W. Heath Jr.
“An Indoor Correlated Shadowing Model”

In Session CT10: Modeling and Capacity of Communication Channels

Wednesday 4:15-6:00
Aqua Salon D
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Co-chairs

- Marco Chiani (University of Bologna, Italy)
- Marios Kountouris (Huawei Technologies, France)
- Xu Zhu (University of Liverpool, UK)

Stats

- # Submissions: 134
- # TPC members: 159
- Average TPC member load = 3.7 papers
- Anticipated acceptance rate: 37-40%

Dates

- Acceptance notification: Jan. 29, 2016
- Camera Ready: Feb. 29, 2016
- Conference: May 23-27, 2016 (Week after CTW!)

A “Small” Note:

- Added in EDAS the topic “Biological and Nanoscale Comm. Theory”
- A SAC Track has been proposed in Molecular, Biological and Multi-scale Communications starting with GC’16
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Co-chairs
- Petar Popovski (Aalborg U., Denmark)
- Philippa Martin (U. Canterbury, New Zealand)
- Jinhong Yuan (U. NSW, Australia)

Dates
- Submission Deadline: April 15, 2016
- Conference: 4-8 December, 2016
- Location: Washington Hilton

To volunteer for serving as a TPC member, please send an email to one of the above co-chairs.
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Communication Theory Workshop 2016
Nafplio, Greece

Marios Kountouris (Huawei Technologies, France)
Constantinos Papadias (AIT, Greece)
Location & Date

- **CTW 2016** will be held on **May 15-18, 2016**
  at the historical and picturesque seaport town of **Naplio, Greece**

(week before ICC)
CTW 2016 Venue

- Nafplia Palace Hotel (5*)
  - Conference Room
    (135 m², max. 150 participants, AC, daylight)
  - Room theatre style
  - Open air space, posters area
Hotel Accommodation

• Standard rooms:
  • Double occupancy
    • 160 euros ($174) / night
  • Single occupancy
    • 150 euros ($163) / night

• Superior rooms:
  • Double occupancy
    • 255 euros ($277) / night
  • Single occupancy
    • 230 euros ($250) / night

• All rooms have **Sea View**

• Luxury villas with private pool are also available
Organizing Committee

- **General Co-Chairs**
  - Marios Kountouris (Huawei Technologies, France)
  - Constantinos Papadias (AIT, Greece)

- **Technical Program Co-Chairs**
  - Giuseppe Caire (TU Berlin, Germany)
  - Angel Lozano (UPF, Spain)

- **Poster Chairs**
  - Mari Kobayashi (CentraleSupelec, France)
  - Aggelos Bletsas (University of Crete, Greece)

- **Publicity Chairs**
  - Wán Choi (KAIST, Korea)
  - Harpreet Dhillon (Virginia Tech, USA)

- **Fundraising Chair**
  - Tony Q.S. Quek (SUTD, Singapore)

- **Local Organization Co-Chairs**
  - Stavros Toumpis (AUEB, Greece)

- **Advisory Board**
  - Behnaam Aazhang, Rice University, USA
  - Jeffrey G. Andrews, UT Austin, USA
  - David Gesbert, EURECOM, France
  - Matthew Valenti, West Virginia Univ., USA
Technical Program

• Sun, May 15
  • Welcome Reception, Registration

• Mon, May 16
  • 1 Plenary, 2 Sessions, 1 Panel, Poster (Cocktails + light dinner)

• Tue, May 17
  • 1 Plenary, 2 Sessions, 1 Panel, Banquet

• Wed, May 18
  • 1 Plenary, 1 Session
Technical Program

Day 1 - Mon, May 16

- PLENARY 1: Merouane Debbah

- SESSION 1: Cloud vs. Decentralized RAN Radio (David Gesbert)

- SESSION 2: Starting-up with Communication Theory

- PANEL 1: “Communication Theory Entrepreneurship: Yes We Can!” (Andrea Goldsmith)

- Poster Session + Cocktails
Day 2 - Tue, May 17

• PLENARY 2: TBD

• SESSION 3: Low-Latency and Short-Packet Communication (Petar Popovski)

• SESSION 4: Multiple Antennas beyond Massive MIMO (Ralf Müller)

• PANEL 2: TBD (Reinaldo Valenzuela)

• Banquet
Technical Program

Day 3 – Wed, May 18

• PLENARY 3: *TBD*

• SESSION 5: *Nano/Molecular/Bio-inspired Communication*” (Urbashi Mitra)
Organization Progress

- Hotel contract signed (deposit should have arrived)

- Sponsors: Huawei and Alcatel-Lucent (thanks to Reinaldo!) – actively searching for more!

- Website is online

- CFP is ready (~ 100 copies placed on GC’15 stands)

- Poster Submission Deadline: March 1, 2016
  Notification acceptance: March 15, 2016
Travel to Nafplio

- Athens
  - New York: 10 hours
  - San Francisco: 14 hours
  - Paris: 3 hours
  - Frankfurt: 3 hours
  - Seoul: 13 hours
  - Tokyo: 13 hours
  - Hong Kong: 20 hours
  - Sydney: 34 hours
  - Austin: 13 hours
  - Barcelona: 3 hours

Additional note: Travel to Nafplio takes 1.5 - 2 hours.
Nafplio: How to get there

- Nafplio is 80 miles from Athens downtown
  100 miles from Athens International Airport

- From Athens International Airport:
  - By CAR: 1.5 - 2h driving // 85% highway // It’s SAFE!
  - By TAXI: ~ 1.5h, cost: 150 euros
  - By BUS: Express bus from Airport to Bus Terminal and then bus to Nafplio
  - By TRAIN: from Athens Airport to Corinth (suburban rail) and then local train or taxi from Corinth (35miles from Nafplio)
  - From Athens International

- We will arrange buses through a travel agency from Athens Airport to Nafplio on Saturday and Sunday (~ 3 buses/ day)
Questions / Suggestions / Comments
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Timing?

• ICC and VTC both scheduled simultaneously,
  – May 21-25, 2017!!
  – ICC is in Paris, VTC is in Sydney
• Best dates for CTW ??
  • Keep in mind that ISIT is 25-30 June
• Options:
  – May 10-12 ? Weather best for beach in May, but still middle of teaching period in Aus/Nz
  – May 31-June 2 ? (Wed-Fri right after ICC)
  – June 5 – 7 ? ICC done and dusted, weather still pretty good in Fiji (abit cooler, drier and less humid, good for hiking, still hot enough for the beach 21-29 °C) last teaching week in Aus. so can escape more easily
  – June 12 – 14? Best for us in Aus., teaching now over (just), otherwise similar to preceding week
Location?

- Under investigation, but somewhere on Nadi, Fiji
- Field trip in February 2016 to check out some possible venues
Location: Nadi island, Fiji
(Nadi International Airport)
Centrally situated in the South Pacific, Fiji is one of the main airline hubs of the Pacific region.

~10 hour direct flights from LA and HK

Fiji is serviced by major carriers in the Pacific region including its national carrier Fiji Airways, Air New Zealand, Jetstar, Korean Airlines, Qantas, Pacific Blue, Air Niugini and Aircalin.
Venue?

- One option was presented at ICC in June – Hotel International Fiji Golf and Spa
- Need to get a new quote from them and check alternatives
- Venue will be decided by February 2016
- Following quote was obtained mid-2015:
Hotel Intercontinental Fiji Golf and Spa Resort (one option)

Based on 70 delegates (prices in FJD),

Conference Rate / day : $6,720 (x 3)
Includes lunch, morning and afternoon teas

2-hour welcome reception : $5,670

2-hour cocktail reception : $5,670

Dinner by the beachfront : $20,708
Includes 3-hour drink package

Total : FJD $52,208
Equivalent to : USD $25,304

Cost per delegate : USD $361
Based on 70 delegates (prices in FJD),

Single standard room : $380 / weeknight
Twin/King standard room : $430 / weeknight

Accommodation rates are:
• per room per night
• single or twin/double occupancy based on existing bedding
• include full buffet breakfast daily in Sanasana restaurant
• inclusive of 20% tax (VAT of 15% and Service Turnover Tax of 5%)
Organizing Committee:

General Chair:
  - Stephen Hanly (Macquarie University)

Technical Program Co-Chairs
  - Iain Collings (Macquarie University)
  - Phil Whiting (Macquarie University)

Finance
  - Robbie McKilliam (University of South Australia)

Fundraising
  - TBD

Poster Session Chairs
  - Jamie Evans (Monash University)
  - TBD

Publicity Co-Chairs
  - Harpreet Dhillon (Virginia Tech)
  - TBD

Advisory Board
  - Jeff Andrews
  - Robert Heath
  - David Gesbert
  - Angel Lozano
PROGRAM

• Technical
  – 3 Plenary talks
  – 5 Technical sessions
  – 2 Panel discussions
  – Poster session

• Social functions
  – Welcome reception
  – Cocktail (during Poster Session)
  – Banquet + Best poster award
Session/Panel Topics under consideration

- Internet-of-things
- Wireless sensor networks
- Localization
- Mm-wave communications in 5G
- Cloud processing in 5G
- Heterogeneous Networks
- Satellite networks
- Spectrum Sharing
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Communication Theory Workshop 2018
Puerto Rico Proposal

Organizers:
David J. Love, Purdue
Bert Hochwald, Notre Dame
Erik Perrins, Kansas
Puerto Rico Overview

- Puerto Rico, Spanish and English are the official languages; most Puerto Ricans speak English.
- Puerto Rico is a U.S. commonwealth-U.S. citizens don’t need a passport to travel.
- U.S. dollar is official currency.
- Puerto Rico has a population of approx 2M.
- San Juan is the capital.
- CTW last in PR in 2006.
Puerto Rico Tourism Overview

• 270 miles of coastline
• More than 70% of the rum sold in the U.S. comes from Puerto Rico
• Toro Verde features one of the longest Zip Lines on Earth: La Bestia
• Bioluminescence exists around the world, but there are only a few biobays on our planet. Puerto Rico has three of them, a kayak or boat-ride away from our shores, they must be seen to be appreciated.
Puerto Rico Travel

- Luis Munoz Marin International Airport (SJU), conveniently located 9 mi (14km) northeast of San Juan.

- Many flights:
  - New York (nonstop) ~$300
  - Chicago (nonstop) ~$350
  - Atlanta (nonstop) ~$350
  - Miami (nonstop) ~$300
  - Dallas (nonstop) ~$500
  - Philadelphia (nonstop) ~$400
  - Boston (nonstop) ~$400
  - Madrid (nonstop) ~$800
  - San Francisco (1 stop) ~$350
  - Stockholm (1 stop) ~$1300
  - Berlin (1 stop) ~$800
  - Beijing (1 stop) ~$1600
  - Seoul (1 stop) ~$2000
Venue Selection

- Beach venue vs Old city San Juan
- Prefer beach venue
- Varying levels of seclusion
- Possibilities
  - El Conquistador – Waldorf Astoria Resort
  - Dorado Beach Resort
  - Caribe Hilton
  - Hyatt Dorado Beach Resort Dorado (CTW 2006)
El Conquistador - Location

- Approx 45 min drive from airport
- Shuttle service provided by hotel available
El Conquistador – View of Hotel and Beach
El Conquistador – Hotel Water Park
El Conquistador – Meeting Rooms
CTTC gives out 2 distinct awards:
- Technical Achievement Award
- Outstanding Service Award
- (There is also an Early Achievement Award)

May make up to 2 of each award per year.

Nominations for 2016 due on June 30th
- A short sentence on the outstanding contribution and one page of supporting material.
- Send nomination to Erik Perrins, awards chair.

Usually awarded at Globecom
- Next ICC or CTW, by request.
PROPOSED CHANGES TO EARLY ACHIEVEMENT AWARD

- Officially adopted in 2011 (ICC, Kyoto), but has never been given

- The current description of the award is: The CTTC Early Achievement Award will recognize young members of the CTTC who have achieved early career visibility in the field through research or service and who (i) have participated in the CTTC (e.g., attended CTTC meetings, attended CTW, served the CTTC in a significant capacity, been a member of the TPC for ICC/GLOBECOM) and (ii) are within 7 years of their Ph.D. and non-tenured (if at an academic institution).

- The awards committee proposes the following change to the description: The CTTC Early Achievement Award will recognize young members of the CTTC who have achieved early career visibility in the field through research and service and who (i) have participated in the CTTC (e.g., attended CTTC meetings, attended CTW, served the CTTC in a significant capacity, been a member of the TPC for ICC/GLOBECOM) and (ii) are within 10 years of their Ph.D.

- We expect to give this award in 2016. The call for nominations for all awards is typically sent out in June.
OUTSTANDING SERVICE AWARD

- Recognizes members of the CTTC who have a distinguished record of service to the communication theory community, including CTTC-sponsored symposia and workshop organization, leadership roles within the committee, and promoting committee activities and interests in the broader research community.

- Past recipients:
  - 2014: Ender Ayanoglu
  - 2013: Michael Rice
  - 2012: Costas Georghiades
  - 2011: Len Cimini
  - 2010: Richard Gitlin and Larry Milstein
OUTSTANDING SERVICE AWARD

Sergio Benedetto
Professor
Polytechnic University of Turin

For exceptional leadership as chair of CTTC, and in Communication Theory Workshops and Symposia.
Recognizes members of the CTTC who have been involved with the committee, have done outstanding work in communication theory, and have achieved a high degree of visibility in the field.

Past recipients:
- 2014: Reinaldo Valenzuela and Norm Beaulieu
- 2013: Andrea Goldsmith
- 2012: Larry Milstein
- 2011: Sergio Benedetto
- 2010: Gerald Foschini and Dariush Divsalar
John Proakis
Adjunct Professor,
UC San Diego
Professor Emeritus,
Northeastern University

For pioneering contributions to and exceptional textbooks in digital communication theory.
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See you in Kuala Lumpur

Tentatively, our meeting will be:

- Tuesday, May 24, at 6:30 PM.