AGENDA

1. Welcome and Introduction
2. Approval of Minutes from 2019 IEEE ICC meeting (available at http://committees.comsoc.org/comt/)
3. Chair Remarks
4. 2019 CTTC Awards
5. Communication Theory Symposium Reports:
   - GLOBECOM 2019 (Wei Yu)
   - ICC 2020 (Harpreet Dhillon)
   - Globecom 2020 (Rui Dinis)
6. Workshop Reports:
   - CTW 2019 (Petar Popovski)
   - CTW 2020 (Andrew Eckford)
   - CTW 2021 (Pablo Ramirez-Espinosa)
   - CTW 2022 proposal (Peter Hong)
7. Student Competition
8. 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, ~600 members, ~150 of which are active.

Be sure to **SIGN IN**, so that we can log your attendance.

Learn more about CTTC activities in the new TC newsletter:
OFFICERS

- **Chair**
  - Urbashi Mitra
  - University of Southern California, USA

- **Vice-Chair**
  - Maite Brandt-Pearce
  - University of Virginia, USA

- **Secretary**
  - Meixia Tao
  - Shanghai Jiaotong University
OTHER POSITIONS

Standards Liaison
- Amitava Ghosh
- Nokia Bell Labs

Student Competition Program
- Rui Dinis
- New University of Lisbon
LOOKING AHEAD

- 2020 last year of service for current officers
- Will elect new chair at Globecom 2020
  - Chair selects Vice Chair and Secretary
  - Consider serving!
- A Nominations and Election committee will be constituted to collect nominations for Chair – a candidate will be put forth
- Self-nominations!
MAILING LIST INFORMATION

- Email list is comm-theory@ieee.org
  - Must be subscribed to send
  - Moderated: Must be approved by an officer
- Is a “quiet” list with few postings per year
- Standard acceptable uses:
  - CTTC-business: Meeting announcements, minutes, etc.
  - CFP for CTTC sponsored events: CTW and CT Symposia
- Special uses:
  - CT-related job openings posted by CT members: Postdoc & faculty
  - Niche workshops targeted to the CT community
  - Connection to CTTC must be clear/CT community involvement
- Not-acceptable:
  - CFP’s for conferences and workshops that are widely known
  - Advertising of graduate programs and announcements of fellowships
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Communication Theory Technical Committee (CTTC)
ICC 2019, Shanghai, China
May 21, 2019
ATTENDANCE = 34

EXECUTIVE SUMMARY

1. The minutes from the Globecom 2018 meeting were approved
2. CTTC structure and goals reviewed
3. An update was given on standards activities
4. CTTC awards again presented
5. ICC 2019, Globecom 2019, ICC 2020 reports were given
6. CTW 2019, CTW 2020, and CTW 2021 reports were given
7. There was no new business
WANT TO BECOME MORE INVOLVED?

- Volunteer to be on the TPC for an upcoming Comm Theory Symposium (typical TPC size is around 150 members)
  - ICC’20: Contact Deniz Gunduz, Imperial College London
d.gunduz@imperial.ac.uk

- Volunteer to be a symposium chair
  - We have made nominations through Globecom’21
  - (ICC’22 – Seoul, Korea)
  - We need more volunteers!
  - Contact Ubli (ubli@usc.edu), and include your bio/CV

- Get involved with the organization of a CTW
  - Next proposal needed: CTW’22

- Organize a Best Readings
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
- Links to the source reference with short descriptions
- Helpful to those who want to acquire a background on the topic

Examples

- Broadband Access
- Cloud Communications and Networking
- Cognitive Radio
- Communications and Information Systems Security
- Device-to-Device Communications
- e-Health
- Green Communications
- Internet of Things
- Massive MIMO
- Multi-Tier Cellular
- Nanoscale Communication Networks
- Optical Wireless Communications
- Physical Layer Security
- Power Line Communications
- Smart Grid Communications

M. Valenti is EiC

- Let him know if you would like to guest edit
A few notes....
CONGRATULATIONS NEW FELLOWS

- Salman Avestimehr
- Wan Choi
- Marco diRenzo
- Octavia Dobre
- Feifei Gao
- Eduard Jorswieck
- Markku Juntti
- Ana Perez Neira
- Joel Rodrigues
- Pengfei Xia
- Rick Wesel
- Angela Zhang
CTTC gives out 3 distinct awards:
- Technical Achievement Award
- Outstanding Service Award
- Early Achievement Award
(can be multiple recipients or no recipients in a given category)

Call for Nominations sent in June/July
Awarded at following GLOBECOM, ICC, or CTW
Nominations due July 30 of every year
- Web forms on CTTC website
2019 CTTC AWARDS COMMITTEE

Maite Brandt-Pearce, Chair
David Gesbert
Costas Georghiades
Erik Perrins
Junshan Zhang
EARLY ACHIEVEMENT AWARD

- Recognizes 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.

- Past recipients:
  - 2018: Ayfer Özgür
  - 2017: Tony Q.S. Quek and Deniz Gündüz
  - 2016: Marios Kountouris
Walid Saad,
Professor,
Virginia Tech

For contributions to distributed optimization and learning for heterogeneous wireless systems
TECHNICAL ACHIEVEMENT AWARD

- 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:
  - 2018: Elza Erkip
  - 2017: Behnaam Aazhang and Michael B. Pursley
  - 2016: Jack Winters
  - 2015: John Proakis
  - 2014: Reinaldo Valenzuela and Norm Beaulieu
Mohamed-Slim Alouini
Professor
KAUST

For the development of performance evaluation techniques for wireless communication systems
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:
  - 2018: None
  - 2016: Behnaam Aazhang
  - 2015: Sergio Benedetto
  - 2014: Ender Ayanoglu
  - 2013: Michael Rice
Andrea Goldsmith
Professor
Stanford University

For her leadership in CTTC, COMSOC, and IEEE, and her continued engagement in CTW
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## UPCOMING CONFERENCE VENUES

<table>
<thead>
<tr>
<th>Conference</th>
<th>Location</th>
<th>Date</th>
</tr>
</thead>
<tbody>
<tr>
<td>GC’19</td>
<td>Hawaii (Waikoloa, Big Island)</td>
<td>9-13 Dec 2019</td>
</tr>
<tr>
<td>ICC’20</td>
<td>Dublin</td>
<td>7-11 June 2020</td>
</tr>
<tr>
<td>GC’20</td>
<td>Taipei</td>
<td>7-11 Dec 2020</td>
</tr>
<tr>
<td>ICC’21</td>
<td>Montreal</td>
<td>14-18 June 2021</td>
</tr>
<tr>
<td>GC’21</td>
<td>Madrid</td>
<td>7-11 Dec 2021</td>
</tr>
<tr>
<td>ICC’22</td>
<td>Seoul</td>
<td>16-20 May 2022</td>
</tr>
<tr>
<td>GC’22</td>
<td>Rio De Janeiro</td>
<td>4-8 Dec 2022</td>
</tr>
<tr>
<td>ICC’23</td>
<td>Rome</td>
<td>2023</td>
</tr>
</tbody>
</table>
ICC’19 Communication Theory Symposium Co-chairs
- Matthew Valenti (West Virginia University, USA)
- Justin Coon (Oxford University, UK)
- Feng Shu (Nanjing University of Science and Technology, China)

Stats
- # Submissions: 126
  - Comparison: GC’18 = 130; ICC’18 = 111; ICC’17 = 164; ICC’08 = 258
- # TPC members: 187; Average TPC member load ≈ 2.7 papers
- # Acceptances: 50 accepted; 39.6% accept rate
  - 1 paper withdrew after acceptance.

Sessions
- 8 oral sessions w/ 5 papers each.
- 1 interactive session w/ 10 papers.

Best paper award
- Symposium chairs nominated 2 papers; award committee picked winner
GLOBECOM’19 Communication Theory Symposium Co-Chairs:
- Wei Yu, University of Toronto, Canada
- Enrico Paolini, University of Bologna, Italy
- Andrea M. Tonello, University of Klagenfurt, Austria

Stats
- # Submissions: 144
  - Comparison: ICC’19: 126; GC’18 = 130; ICC’18 = 111; ICC’17 = 164;
- # TPC members: 139; Average TPC member load ≈ 2.9 papers
- # Acceptances: 60 accepted; 41.7% accept rate

Sessions
- 7 oral sessions (4 sessions with 5 papers, 3 sessions with 6 papers)
- 1 interactive session with 22 papers

Best paper award
- Symposium chairs nominated 2 papers. Winner chosen by award committee:
  "The Penalty in Scaling Exponent for Polar Codes is Analytically Approximated by the Golden Ratio", authored by Ori Shental.
Co-Chairs:
- Harpreet Dhillon, Virginia Tech
- Deniz Gunduz, Imperial College London
- Mark Flanagan, University College Dublin

Final Numbers:
- TPC members recruited: 144
- Papers submitted: 119

Notes about the review process
- Each TPC member was assigned three-four papers for review
- Please submit detailed reviews. It is important for us to know why you liked or disliked the paper (especially for the borderline cases)
- Please submit your reviews on time
GLOBECOM 2020 (TAIPEI CITY, TAIWAN)

- 7-11 December, 2020
- Co-chairs
  - Rui Dinis, Nova Univ. of Lisbon
  - Marco Chiani, Universita di Bologna, Italy
  - Paschalis Sofotasios, Khalifa University of Science and Technology, UAE

As mentioned in opening remarks, please contact co-chairs to volunteer for the TPC if you are interested.

Website will go live immediately after GLOBECOM 2019

- The current dates:
  - Paper Submission: April 15, 2020
  - Acceptance Notification: July 25, 2020
  - Camera-Ready: September 1, 2020
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<tr>
<td>CTW’19</td>
<td>Sefloss, Iceland</td>
<td>May 27-29, 2019</td>
</tr>
<tr>
<td>CTW’20</td>
<td>Banff, Alberta, Canada</td>
<td>May 17-20, 2020</td>
</tr>
<tr>
<td>CTW’21</td>
<td>Marbella, Spain</td>
<td>May 2021</td>
</tr>
</tbody>
</table>
ORGANIZING COMMITTEE

- **General Chair**
  - Petar Popovski (Aalborg University, Denmark)

- **TPC Chairs**
  - Urbashi Mitra (University of Southern California, USA)
  - Erik Larsson (Linkoping University, Sweden)

- **Local organizing chair**
  - Magnus M. Halldorsson (Reykjavik University, Iceland)

- **Poster Chairs**
  - Nuria Gonzalez Prelcic (University of Vigo, Spain)
  - Maite Brandt-Pearce (University of Virginia, USA)

- **Fundraising chair**
  - Marios Kontouris (Huawei, France)
Keynote 1:  
5G for Industry 4.0 – Are we there yet?  
Andreas Mueller (Bosch and 5G-ACIA)

Keynote 2:  
Looking anew at what we thought we knew  
Muriel Médard (MIT)

Keynote 3:  
Foundational Aspects of Blockchain Protocols  
Juan Garay (Texas A&M University)
Session 1: Security in Social Information Systems
Organizer: Anna Scaglione (Arizona State University)

Session 2: Resilience for Network Attacks
Organizer: Bruno Sinopoli (Carnegie Mellon University)

Session 3: Communications in the Real World: Theory & Experiments
Organizer: Howard Huang (Nokia Bell Labs)

Session 4: Core Communication Theory
Organizer: Wei Yu (University of Toronto)

Session 5: Unconventional Communications: Emerging Modalities
Organizer: Maite Brandt-Pearce (University of Virginia)
Panel 1: Emerging IoT Applications That Will Drive 6G and New Communication Theory Problems  
Organizer: Jeff Andrews

Panel 2: Machine Learning: Salvation or Illusion?  
Organizers: Shuguang Cui (University of California, Davis) and Sudharman Jayaweera (University of New Mexico)
STATISTICS AND PATRONS

- 97 registered participants

- Two Golden Patrons
  - Nokia Bell Labs
  - Huawei
ORGANIZING COMMITTEE

- **General Chairs**
  - Andrew Eckford (York University, Canada)
  - Julian Cheng (University of British Columbia – Okanagan, Canada)

- **TPC Chairs**
  - Behnaam Aazhang (Rice University, USA)
  - Natasha Devroye (University of Illinois at Chicago, USA)

- **Finance Chair**
  - Anas Chaaban (University of British Columbia – Okanagan, Canada)

- **Poster Chairs**
  - Yindi Jing (University of Alberta, Canada)
  - Shahram Shahbazpanahi (Ontario Tech, Canada)

- **Data Competition Chairs**
  - Nariman Farsad (Ryerson University, Canada)
  - Jakob Hoydis (Nokia Bell Labs, France)
TECHNICAL PROGRAM

- Keynote 1: Frank Kschischang  
  University of Toronto, Canada

- Keynote 2: Merouane Debbah  
  Huawei, France

- Keynote 3: Sennur Ulukus  
  University of Maryland, USA
Session 1: Neuromorphic sensing, learning, and communications  
Chair: Osvaldo Simeone (King’s College London, UK)

Session 2: Inference for graph-based information  
Chair: Negar Kiyavash (Georgia Tech, USA)

Session 3: Coding for Computing and Learning  
Chair: Daniela Tuninetti (University of Illinois at Chicago, USA)

Session 4: Machine Learning and Signal Processing for Network Data  
Chair: Santiago Segarra (Rice University, USA)

Session 5: Communication Theory Put into Practice  
Chair: Tara Javidi (University of California San Diego, USA)
Industry Panel 1

**5G Use Cases**
Chair: Ivo Maljevic (TELUS, Canada)

Industry Panel 2

**Convergence Bounds and Experimental Rigor: How can we know that machine learning systems will work?**
Chair: Matt Nokelby (Target, USA)
TECHNICAL PROGRAM

- **Poster Session**
  - Deadline: February 24, 2020
  - Award for best poster
  - (Reminder: No published proceedings)

- **Data Competition**
  - Outdoor localization challenge using a real-world dataset
  - Award for best performance
How to get there:

Calgary International Airport (YYC)
Take the direct shuttle bus or rent a car

What to do (other than hear about world-class research):

Hiking, hot springs, gondola rides, whitewater rafting, golf, mountain biking, wildlife spotting, spas, dining ...

Very family friendly!
## EXPECTED COSTS

### Registration

<table>
<thead>
<tr>
<th>Type</th>
<th>Cost</th>
</tr>
</thead>
<tbody>
<tr>
<td>Early ComSoc Member</td>
<td>US$549</td>
</tr>
<tr>
<td>Early ComSoc Student</td>
<td>US$299</td>
</tr>
</tbody>
</table>

**Early Registration Deadline:** March 14, 2020

### Accommodation

<table>
<thead>
<tr>
<th>Hotel</th>
<th>Rate</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fairmont Banff Springs Hotel</td>
<td>US$258/night</td>
</tr>
<tr>
<td>Negotiated Rate</td>
<td>(CA$343/night)</td>
</tr>
</tbody>
</table>
http://ctw2020.ieee-ctw.org/
**ORGANIZING COMMITTEE**

- **General co-chairs**
  - Andrea Goldsmith (Stanford University, USA)
  - Juan M. Romero-Jerez (Univ. Málaga, Spain)

- **TPC co-chairs**
  - Mohamed-Slim Alouini (KAUST, Saudi Arabia)
  - F. Javier Lopez-Martinez (Univ. Málaga, Spain)

- **Poster Chairs**
  - Mahnoosh Alizadeh (UC Santa Barbara, USA)
  - David Morales-Jimenez (Queen’s University Belfast, UK)

- **Finance chair**
  - Mari Carmen Aguayo-Torres (Univ. Málaga, Spain)

- **Publicity co-chairs**
  - Ana García-Armada (Univ. Carlos III, Spain)
  - Víctor Gil-Jiménez (Univ. Carlos III, Spain)
CURRENT STATUS & UPDATES

- **Hotel:**
  - Contracts ready to be signed (Hotel - agency - IEEE)

- **Budget**
  - Approved with minor changes
  - Worst-case estimation based on % from CTW'19
  - Registration fee decreased (450$/475$/575$ ComSoc/IEEE/non-member)

- **Next things to be done**
  - Invite keynote speakers
  - Design technical program sessions (topics/chairs/panels)
  - Contact sponsors
  - Social program
Regular price (in spring) > 200 €/night (double room)

Final room prices for CTW’21: (buffet breakfast included. V.A.T included):
- 180 €/room (double-twin)
- 170 €/room (double room for single use)

Location: 500 m from the sea and Hotel Beach Club (10 minutes walk in urbanized area – the hotel offers transportation)
- 5 km from Marbella downtown
- Number of rooms: 173 - Spa/ Golf/ Beach club
- Salon Real: Big meeting room. Capacity for up to 350 people. Will be divided for CTW to have the perfect size.

Patio rooms: Located around an Andalusian patio. Meetings for 15-50 people

Reviews: 8,5 in booking.com – 4,5/5 TripAdvisor
VENUE: LOS MONTEROS MARBELLA HOTEL & SPA (5*GL)
VENUE: LOS MONTEROS MARBELLA HOTEL & SPA (5*GL)
NEARBY ATTRACTIONS

- Caminito del Rey (Lonely Planet's top experiences 2015)
- Antequera Dolmens & Torcal (UNESCO World Heritage 2017)
- Ronda
NEARBY ATTRACTIONS: MÁLAGA
HOW TO REACH MARBELLA

- Fly to Malaga and then take a taxi (63€), bus (6-8€).
- **Flying to Malaga (Direct)**
  - Madrid/Barcelona (<1h30)
  - Paris/Rome/Zurich (2h30)
  - London/Amsterdam (3h)
  - Frankfurt/Munich/Berlin (3h)
  - Copenhagen (3h45)
  - Stockholm (4h30)
  - Istanbul (4h40)
  - Moscow (5h30)
  - Montreal (7h30)
  - New York (7h30)
- **Flying to Malaga (Connection)**
  - Dallas (13h30)
  - Bay Area (14h)
  - Beijing (14h)
  - Tokyo (16h)
  - Hong Kong (17h)
CTW2022 PROPOSAL

- Peter Hong
- (switch slides)
IEEE Communication Theory Workshop 2022
Fulong, New Taipei City, Taiwan

Tony Quek
(Singapore University of Technology and Design, Singapore)

Yao-Win Peter Hong
(National Tsing Hua University, Taiwan)

Wei Yu
(University of Toronto, Canada)
• CTW 2022 will be held on May 1 - 4, 2022? May 8 - 11, 2022? May 29 - June 1, 2022?

• No conflict with other Conferences

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<td>@ Seoul, South Korea</td>
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<tr>
<td>ICASSP</td>
<td>May 23 - 27</td>
<td>@ Singapore</td>
</tr>
<tr>
<td>ISIT</td>
<td>June 26 - July 1</td>
<td>@ Helsinki, Finland</td>
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<tr>
<td>June 12 - 17</td>
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<tr>
<td>SPAWC</td>
<td>?</td>
<td></td>
</tr>
</tbody>
</table>
Location
Fulong, New Taipei City, Taiwan
Location

Fulong, New Taipei City, Taiwan

Water activities

- Swimming
- Stand Up Paddleboarding (SUP)
- Kayaking

Mountain activities

- Cycling
- Hiking
- Rock climbing

Fulong International Sand Sculpture Art Festival

Old Caoling Tunnel

Long Dong Wan Cape Trail

Caoling Historic Trail

Stand Up Paddleboarding (SUP)
Taiwan Taoyuan International Airport

Airport MRT
39~53 mins
from 06:00 to 00:00
every 6~9 mins

Taipei Main Station

Train
57mins ~ 1hr 30 mins
from 05:28 to 22:40
every 40 mins~1 hr

Fulong
Venue

Fullon Hotel & Resorts****

- Conference room (classroom style)
  $102 \sim 119\ m^2$, max. 60~80 participants
- Poster area with great view
- Welcome reception in open air space
Hotel

Fullon Hotel & Resorts

• Rooms with view at Fullon Hotel & Resorts
• American breakfast
• Prices (standard rooms):
  
  Double occupancy

  USD195 (EUR172) / night

• Luxury villas are also available
Preliminary Organizing Committee

• **General Chairs**
  Tony Q.S. Quek (Singapore University of Technology and Design, Singapore)
  Yao-Win Peter Hong (NTHU, Taiwan)
  Wei Yu (University of Toronto, Canada)

• **Technical Program Chairs**

• **Poster Chairs**

• **Publicity Chairs**

• **Fundraising Chair**

• **Local Organization Chairs**

• **Advisory Board**
Technical Program

• To be determined...
Questions / Suggestions / Comments
Other Potential Locations

Taroko National Park, Hualien *(Eastern Taiwan)*

**Silks Place Taroko**

- Hotel in the National Park
- Room price (standard): *USD266 (EUR235) / night*
- 3 conference rooms
  - 224 ~274 m², max. 70~90 participants
- Airport → Taipei Main Station
  - **MRT**
  - **Train** → Hualien Train Station
  - **Bus** → Venue
Other Potential Locations

Farglory Ocean Park, Hualien (Eastern Taiwan)

Hualien Farglory Hotel ★★★★★

- Room price (standard): 
  USD144 (EUR125) / night
- Conference rooms (classroom style) 
  171 m², max. 80 participants
- Airport ➔ Taipei Main Station ➔ Hualien Train Station ➔ Venue

Meeting Room Details:
- Ocean Park, Hualien (Eastern Taiwan)
- Farglory Ocean Park, Hualien
- Hualien Farglory Hotel ★★★★★
- Room price (standard): USD144 (EUR125) / night
- Conference rooms (classroom style) 171 m², max. 80 participants
- Airport ➔ Taipei Main Station ➔ Hualien Train Station ➔ Venue
Other Potential Locations

Kenting, Pingtung (Southern Taiwan)

- Sunshine & Beach
- Room price (standard): USD157 (EUR139) / night
- Conference room (classroom style): 165 m², max. 96 participants
- Airport \( \text{MRT} \rightarrow \text{Taoyuan HSR Station} \rightarrow \text{HSR} \rightarrow \text{Zuoying HSR Station} \rightarrow \text{Bus} \rightarrow \text{Venue} \)
IEEE COMSOC STUDENTS COMPETITION

- Communications Technology Changing the World

- Annual student competition for future leaders in communications and networking.

- 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.

- The winning student (or student team) can earn up to US$2,000.

- Leader or the individual of the First prize invited to receive the prize at IEEE GLOBECOM 2020 (expenses paid).

- Submission deadline – Mid August 2020

- More details can be found in

  https://www.comsoc.org/education-training/ieee-comsoc-student-competition
WE’RE DONE!

- Motion?
- Thanks!