

COMMUNICATION THEORY TECHNICAL COMMITTEE

GLOBECOM 2018
DECEMBER 10, 2018
ABU DHABI

Chair: Erik Perrins
Vice-Chair: Urbashi Mitra
Secretary: Philippa Martin



AGENDA

1. Welcome and Introduction
2. Approval of Minutes from 2018 IEEE ICC meeting
(available at <http://committees.comsoc.org/comt/>)
3. Chair Remarks
4. 2018 CTTC Awards
5. Communication Theory Symposium Reports:
 - GLOBECOM 2018 (Neelesh Mehta)
 - ICC 2019 (Matt Valenti)
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6. Workshop Reports:
 - CTW 2019 (Petar Popovski)
 - CTW 2020 (Andrew Eckford and Julian Cheng)
 - CTW 2021 Proposal (Jeff Andrews)
7. Election of New Chair
8. New Business

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WHAT IS CTTC?

- We hold meetings twice per year:
 - At ICC and GLOBECOM.
- Become a member by joining the mailing list.
 - <http://committees.comsoc.org/comt/maillinglist.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.

OFFICERS

- **Chair**

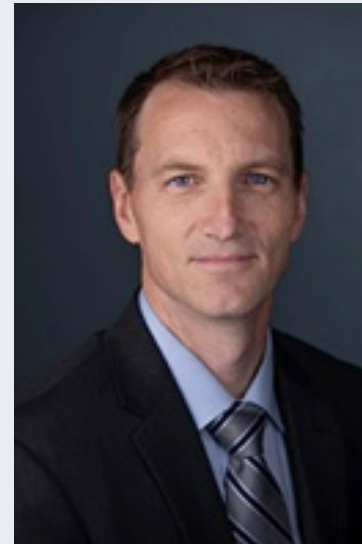
- Erik Perrins
- University of Kansas, USA

- **Vice-Chair**

- Urbashi Mitra
- University of Southern California, USA

- **Secretary**

- Philippa Martin
- University of Canterbury, NZ



OTHER POSITIONS

Standards Liaison

- George Alexandropoulos
- Huawei Technologies Co., Ltd.



Student Competition Program

- Hideki Ochiai
- Yokohama National University

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MINUTES

Communication Theory Technical Committee (CTTC)

ICC 2018, Kansas City, MO, USA

21-May-2018

ATTENDANCE = 58

EXECUTIVE SUMMARY

- 1. The minutes from the Globecom 2017 meeting were approved.**
- 2. An update was given on standards activities**
- 3. The CTW Steering Committee Charter document was presented and approved by vote**
- 4. Conference reports were given for ICC 2018, GC 2018, and ICC 2019.**
- 5. Workshop reports were given for CTW 2018, CTW 2019, and a proposal was given for CTW 2020.**

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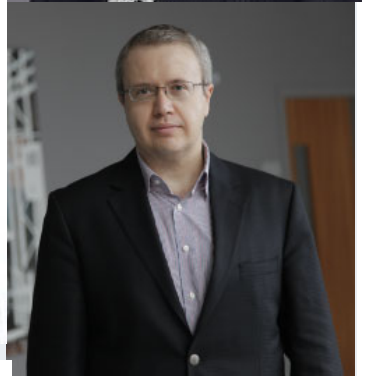
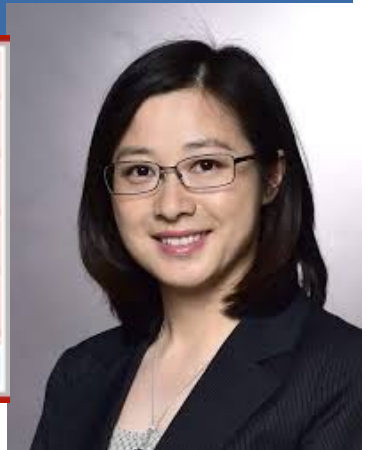
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WHAT DOES CTTC DO?

- The Communication Theory Technical Committee (CTTC) of the IEEE Communications Society is primarily interested in fundamental problems associated with the transmission of information.
- Oversight of the Communication Theory Workshop
- Sponsorship of GLOBECOM and ICC symposia
 - Primary symposium: Comm Theory
 - Secondary: Signal Proc. for Comm; and Wireless Comm.
- Recognize member accomplishment through:
 - IEEE Fellow and Senior Member endorsement
 - IEEE Distinguished Lecturer endorsement
 - Nomination for other IEEE and ComSoc awards
 - CTTC Awards in Technical Achievement, Outstanding Service, and Early Achievement

CONGRATULATIONS NEW IEEE FELLOWS

- Sonia Aissa
- Ali Ghrayeb
- Dong In Kim
- Ioannis Krikidis
- Yonghui Li
- Shiwen Mao
- Neelesh Mehta
- Yi Qian
- Walid Saad
- Meixia Tao
- Murat Uysal



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
- Not-acceptable:
 - CFP’s for conferences and workshops that are widely known
 - Advertising of graduate programs and announcements of fellowships

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 wants 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 (Updated)**
 - **e-Health**
 - **Green Communications (Updated)**
 - **Internet of Things**
 - **Massive MIMO**
 - **Multi-Tier Cellular**
 - **Nanoscale Communication Networks**
 - **Optical Wireless Communications (New)**
 - **Physical Layer Security**
 - **Power Line Communications**
 - **Smart Grid Communications**
- M. Valenti is EiC
 - Let him 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 (typical TPC size is around 150members)
 - GC'19: Contact Wei Yu <weiyu@ece.utoronto.ca>
- Volunteer to be a symposium chair
 - We have made nominations through GC'20
 - **We need more volunteers!**
 - Contact Erik, and include your bio/CV
- Standards liaison or student award rep
- Get involved with the organization of a CTW
 - Next proposal needed: CTW'22
- Organize a Best Readings

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AWARDS

- **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 May/June**
- **Awarded at following GLOBECOM, ICC, or CTW.**

2018 CTTC AWARDS COMMITTEE



Urbashi Mitra, Chair



David Gesbert



Matt Valenti



Sennur Ulukus



Behnaam Aazhang

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:
 - 2017: Tony Q.S. Quek and Deniz Gündüz
 - 2016: Marios Kountouris

EARLY ACHIEVEMENT AWARD

Ayfer Özgür
Assistant Professor
Stanford University



*for contributions in the
fundamental capacity limits of
multihop wireless networks and
energy-harvesting radios*

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:
 - 2017: Robert W. Heath Jr.
 - 2016: Behnaam Aazhang
 - 2015: Sergio Benedetto
 - 2014: Ender Ayanoglu
 - 2013: Michael Rice
 - 2012: Costas Georghiadis
 - 2011: Len Cimini
 - 2010: Richard Gitlin and Larry Milstein

OUTSTANDING SERVICE AWARD

No recipient in 2018. Please consider submitting a nomination in Summer 2019.

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:
 - 2017: Behnaam Aazhang and Michael B. Pursley
 - 2016: Jack Winters
 - 2015: John Proakis
 - 2014: Reinaldo Valenzuela and Norm Beaulieu
 - 2013: Andrea Goldsmith
 - 2012: Larry Milstein
 - 2011: Sergio Benedetto
 - 2010: Gerald Foschini and Dariush Divsalar

TECHNICAL ACHIEVEMENT AWARD

Elza Erkip
Institute Professor
New York University

*for contributions to the theory
and practical design of
cooperative and MIMO
communications*



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UPCOMING CONFERENCE VENUES

Conference	Location	Date
ICC'19	Shanghai	20-24 May 2019
GC'19	Hawaii (Waikoloa, Big Island)	9-13 Dec 2019
ICC'20	Dublin	7-11 June 2020
GC'20	Taipei	7-11 Dec 2020
ICC'21	Montreal	14-18 June 2021
GC'21	Madrid	7-11 Dec 2021
ICC'22	Seoul	16-20 May 2022
GC'22	Rio De Janeiro	4-8 Dec 2022
ICC'23	Rome	2023

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IEEE GLOBECOM 2018 CT SYMPOSIUM

■ Co-Chairs:

- Neelesh B. Mehta (Indian Institute of Science, Bangalore)
- Koichi Adachi (The University of Electro-Communications, Japan)
- Meixia Tao (Shanghai Jiao Tong University, China)

■ Final Numbers:

- TPC members recruited: **127**
- Papers submitted: **131**
- Papers accepted: **50 (38.2%)**
- Sessions:
 - Presentation sessions: **8**
 - Interactive sessions: **2**

ONE CONCERN: REVIEW QUALITY

- Received several good quality, thorough reviews.
 - Thanks to the TPC members and reviewers for this.
- However, several reviews are unacceptably short
 - 1-2 sentences long!
 - Comments do not correlate well with scores given
 - Can't figure out why the reviewer dislikes or likes the paper
- Need to do more than:
 - Send instructions to TPC members requesting for more thorough reviews
- Unless this problem is addressed, quality of CTSs in ICC/
Globecom will go down

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IEEE ICC[®] 2019

**EMPOWERING INTELLIGENT
COMMUNICATIONS**

**IEEE INTERNATIONAL CONFERENCE
ON COMMUNICATIONS**

**20 - 24 May 2019
Shanghai, China**



- **ICC 2019 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: ICC'18 = 111; ICC'17 = 164; ICC'08 = 258),
 - # TPC members: 187
 - Average TPC member load \approx 2.7 papers
 - Anticipated acceptance rate \approx 39%
- **Dates**
 - Review deadline (initial): Jan. 6, 2019
 - Acceptance notification: Feb. 3, 2019
 - Camera Ready: Feb. 24, 2019
- **Notes**
 - Some papers still do not have enough confirmed reviews.
 - We may ask you to review a few more papers. (volunteers appreciated!)

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GLOBECOM 2019 (BIG ISLAND, HAWAII)

- **Co-Chairs:**
 - Wei Yu, University of Toronto
 - Enrico Paolini, University of Bologna
 - Andrea Tonello, University of Klagenfurt (Austria)
- As mentioned in opening remarks, please contact co-chairs to volunteer for the TPC. The TPC currently stands at 130 members, with a desired size of 150.
- The paper submission deadline is April 15, 2019

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CTW STEERING COMMITTEE



- Jeffrey Andrews
University of Texas
2015–2018, Past Chair

- David Gesbert
EURECOM
2016–2019



- Michael Honig
Northwestern University
2017–2020, **Chair**
- Stephen Hanly
Macquarie University
2018–2021

UPCOMING CTW VENUES

Conference	Location	Date
CTW'19	Reykjavik, Iceland	27-29 May 2019
CTW'20	Banff, Alberta, Canada	17-20 May 2020
CTW'21	Proposal for Marbella, Spain	May 2021

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IEEE CTW @ ICELAND

MAY 27-29, 2019



ORGANIZING COMMITTEE

- **General Chair**

- Petar Popovski (Aalborg University, Denmark)

- **TPC Chairs**

- Urbashi Mitra (USC, 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)

TECHNICAL PROGRAM

- **Keynote 1: Muriel Medard, MIT, USA**
Keynote 2: TBD
Keynote 3: TBD
- **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)

TECHNICAL PROGRAM

- **Session 4: Communication Theory Core Topics**
Organizer: Wei Yu (University of Toronto)
- **Session 5: Unconventional Communication: Emerging Modalities**
Organizer: Maite Brandt-Pearce (University of Virginia)
- **Panel 1: Machine Learning: Salvation or Illusion?**
Organizer: TBD
- **Panel 2: TBD**
- **Poster Session:**
Organizers: Nuria González Prelcic (The University of Texas at Austin) and Luca Sanguinetti (University of Pisa)
- **Poster Session: Data Bakeoff**
Organizers: Erik G. Larsson (Linköping University) and Urbashi Mitra (University of Southern California)

GOLDEN PATRONS

- **Nokia Bell Labs**
- **Huawei**

VENUE: SELFOSS HOTEL

- 4-star hotel,
- <http://hotelfselfoss.is>
- Reviews
 - 8.6 on booking.com
 - 4/5 on tripadvisor



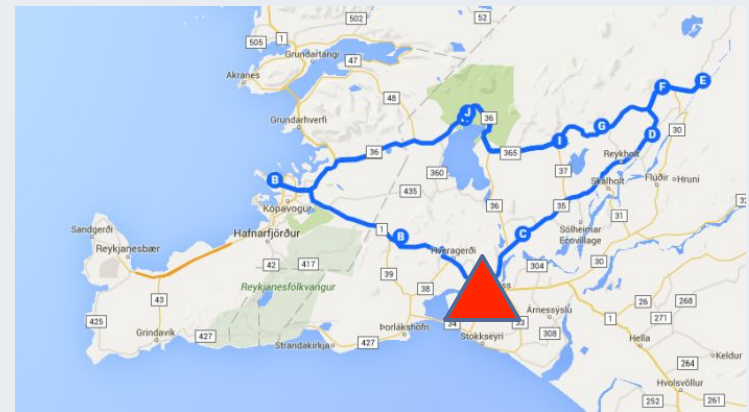
VENUE: SELFOSS HOTEL

■ Location

- Countryside, lies on the Golden Circle, a popular tourist route

■ The Golden Circle route includes:

- Þingvellir National Park
30 minutes from hotel
- Geysir, Gullfoss
50 minutes from the hotel,
- Kerið crater
15 minutes from the hotel
- The whole route includes other places as well and can be done in 6-7 hours.



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IEEE Communications Theory Workshop 2020
May 17-20, 2020 | Banff, Alberta, Canada



About Banff

- Resort town in the Canadian Rockies
- Approx. 120 km / 75 mi west of Calgary
- Population 7800

Other things to do in Banff & area

- Cave & Basin National Historic Site
- Sulphur Mountain gondola
- Columbia Icefields
- Hiking
- Bike tours / rentals
- Whitewater rafting
- Spas
- Fine dining
- **Etc. etc. etc.**



Getting to Banff

- **Calgary Intl. Airport (YYC)**
 - Nonstop flights to most US hubs
 - Nonstop flights to London, Frankfurt, Amsterdam, Beijing, Tokyo
- Shuttle from airport
 - Door-to-door service to venues
 - 90 minute travel time



Current Status

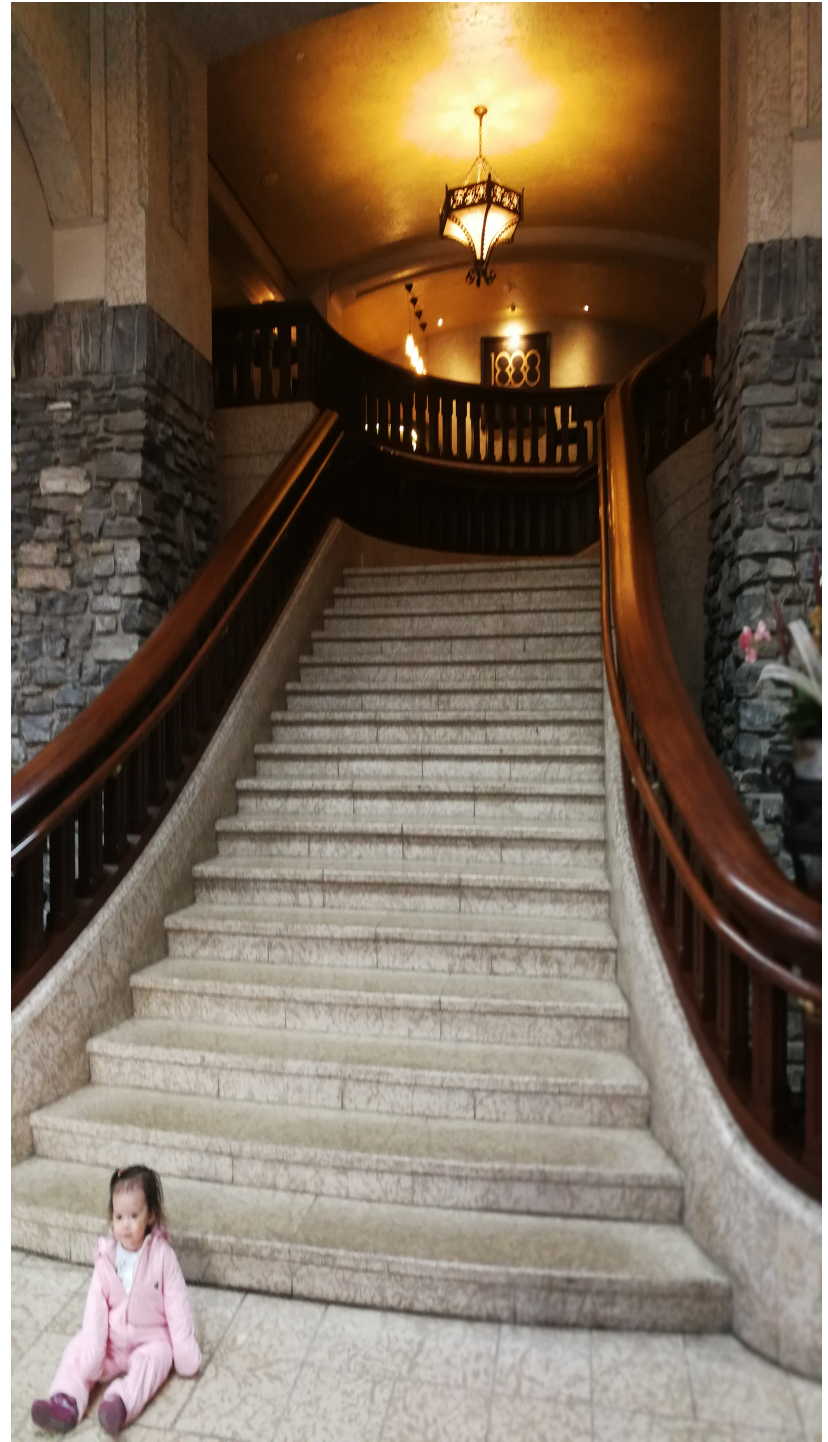
- **Organizing committee nominated**
 - **General chairs:** Andrew Eckford (YorkU), Julian Cheng (UBC)
 - **TPC chairs:** Natasha Devroye (UIC), Behnaam Aazhang (Rice)
 - **Treasurer:** Anas Chaaban (UBC)
 - **Poster Session Chair:** Octavia Dobre (Memorial)

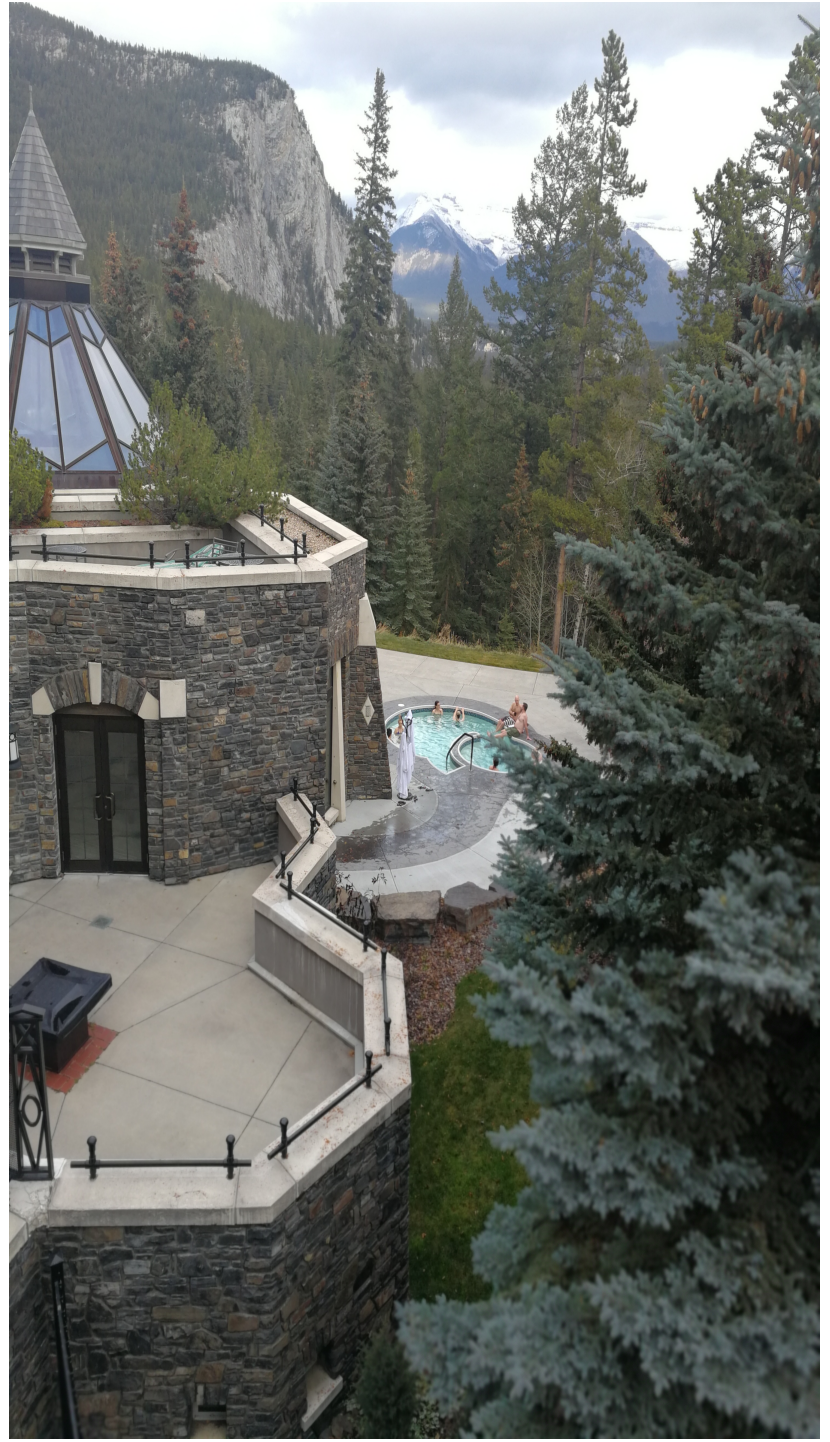
Current Status

- **Venue confirmed:** Banff Springs Hotel



Photos from site visit







Store Hours

Monday	8am-11pm
Tuesday	8am-11pm
Wednesday	8am-11pm
Thursday	8am-11pm
Friday	8am-11pm
Saturday	8am-11pm
Sunday	8am-11pm









Estimated Hotel/Registration Costs

- Hotel

\$263/night*

+ taxes, fees

- Registration (ComSoc member early bird)

\$525*

+ taxes, same fee structure as CTW 2018

*Amounts in USD, based on 1 CAD/1 USD = 0.8

Next Steps

- Secure sponsorships
 - NSERC, PIMS, Fields Institute, CSIT, corporate sponsors
 - Find funding to support travel grants (especially for postdocs/students)
- Develop the technical program
 - Start inviting keynote speakers Q2 2019

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Proposal

IEEE Communication Theory Workshop, 2021

Marbella, Spain

Where?

Marbella, Costa del Sol, Spain

When?

Tentative dates: 23/05/2021 - 26/05/2021 or 30/05/2021 - 02/06/2021

Specific dates will be arranged in coordination with ICC/VTC and subject to approval from the Comm. Theory Technical Committee

Previous CTW in Mediterranean Europe

CTW'04: Capri (Italy)

CTW'11: Sitges (Spain)

CTW'16: Nafplio (Greece)

Organizing Committee

General Co-Chairs

Andrea Goldsmith (Stanford University)

Juan Romero-Jerez (Univ. Malaga)

Technical Program Co-Chairs

Mohamed-Slim Alouini (KAUST)

F. Javier Lopez-Martinez (Univ. Malaga)

Poster Co-Chairs

Mahnoosh Alizadeh (UC Santa Barbara)

David Morales-Jimenez (Queen's University Belfast)

Publicity Co-Chairs

Ana Garcia-Armada (Univ. Carlos III)

TBD

Finance Chair

Maria Aguayo-Torres (Univ. Malaga)

Other positions TBD

Marbella: Overview

- Mediterranean coast, southern Spain: the most exclusive tourist destination on the Costa del Sol
- Marbella → In the chic, sun-drenched Costa del Sol town of Marbella, hints of its rich history mixed with modern-day resort amenities
- 40 min drive from Malaga Pablo Ruiz Picasso Airport (AGP), 3rd largest in continental Spain
- World-class dining (up to five 2-star and 1-star Michelin restaurants)
- Currency: €
- Language: Spanish + English (tourism + UK residents)



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)

Marbella Attractions

- World-class resorts
- 25 km of beaches, including areas of protected dunes
- Marinas, nightlife, designer shops and trendy fish restaurants
- Golden Mile: location of the most sophisticated villas and hotels
- Among the places of interest are the 10 sculptures of Dalí on Avenida del Mar, the alleys of the historic center and the colorful houses of Andalusian style



Marbella Pictures



Marbella resorts: Overview

- Long tradition of being a luxury tourism destination on a global scale
- Hotel supply consists of 79 hotels (16 5★/5★ ✧★) (2015)
- Target room price under 200€/night all included + luxury upgrades available



Marbella resorts: Overview

- Location of the main hotels in Marbella



- Strong candidates
 - Los Monteros
 - Vincci Estrella del Mar

Main candidate: Los Monteros Marbella Hotel & Spa (5*GL)

- Regular price (in spring) ~ 200 €/night (double room)
- **Hotel offer** per night if 60 rooms are booked (buffet breakfast included. V.A.T included):
 - 170 €/room (double-twin) **160 €/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. it can be divided in 3 sections
- Patio rooms: Located around an Andalusian patio. Meetings for 15-50 people
- Reviews: 8,5 in booking.com – 4,5/5 TripAdvisor



Los Monteros Marbella Hotel & Spa (5*GL) (pictures include Hotel Beach Club)



Los Monteros Marbella Hotel & Spa (5*GL)



Second option: Vincci Estrella del Mar (5*)

- **Hotel offer per night** if 23 rooms are booked (buffet breakfast included. V.A.T included):
247,5€/room (double-twin) 231€/room (double room for single use)
Dates: 23/05/2021 - 26/05/2021 (later, prices increase)
- Higher price mostly because the hotel is pretty new (~10 years) and closer to a nice beach
- Location: 100 m from the sea and Hotel Beach Club (2 minutes walk in urbanized area – the hotel offers transportation)
- 8 km from Marbella downtown
- Number of rooms: 137
- Salon: Beach club. Capacity for up to 180 people. Just by the sea.
- Reviews: 8,7 in booking.com – 4,5/5 TripAdvisor



Vincci Estrella del Mar (5*)



Vincci Estrella del Mar (5*)



Other options:

There are actually many options, including grand deluxe. Two other viable possibilities:

Gran Hotel Guadalpin Banus 5*:

- Double room ~ 300 €/night (regular price)
- Location: Just By the sea.
- Conference room for up 100 people.



Iberostar Coral Beach 4*:

- Double room ~ 170 €/night (regular price)
- 170 rooms
- Conference room for up to 220 people



Nearby attractions

- Caminito del Rey (Lonely Planet's top experiences 2015)
- Antequera Dolmens & Torcal (UNESCO World Heritage 2017)
- Ronda



Nearby attractions: Málaga

- 1 hour drive from Marbella
- Botanical garden
- Historical monuments: Roman theater, Arab castle and fortress, cathedral, Andalusian architecture
- World-class museums: Picasso, Thyssen, Pompidou, among others
- Vibrant nightlife



Nearby attractions: Málaga



AGENDA

1. Welcome and Introduction
2. Approval of Minutes from 2018 IEEE ICC meeting
(available at <http://committees.comsoc.org/comt/>)
3. Chair Remarks
4. 2018 CTTC Awards
5. Communication Theory Symposium Reports:
 - GLOBECOM 2018 (Neelesh Mehta)
 - ICC 2019 (Matt Valenti)
 - GLOBECOM 2019 (Erik Perrins)
6. Workshop Reports:
 - CTW 2019 (Petar Popovski)
 - CTW 2020 (Andrew Eckford and Julian Cheng)
 - CTW 2021 Proposal (Jeff Andrews)
7. **Election of New Chair**
8. New Business

OFFICER ELECTION

- **Offices are for two-year terms**
 - **Current terms expire Dec. 2018**
- **Chair is the only elected office**
 - **Vice Chair and Secretary are appointed by the chair**
- **Chair election procedure**
 - **A Nomination and Election (N&E) committee was formed**
 - **Nominations (including self-nominations) were given to N&E committee by Oct. 31**
 - **Committee endorsed one nominee for Chair: Urbashi Mitra**
 - **Election at the GLOBECOM 2018 meeting (today)**
 - **Nominations from the floor taken in addition to N&E candidate**
 - **Candidates excused to allow for discussion**
 - **Vote by show of hands unless secret ballot requested**

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8. **New Business**

ADJOURNMENT

- See you in Shanghai
- Tentatively, our meeting will be:
 - Tuesday, May 21, at 6:30 PM.
 - <http://icc2019.ieee-icc.org>