



IEEE Communications Society

## Data Storage Technical Committee Meeting at GC 2018

Wednesday, December 12 2018, 12:30-14:00 (Gulf Standard Time), Capital Suite 4

Brian M. Kurkoski, DSTC Chair

Download agenda: <http://dstc.committees.comsoc.org/meetings/>

# Agenda

**DSTC**

**Data Storage Technical Committee  
IEEE Communications Society**

- Committee Mission and Officers
- Data Storage Tracks at ICC/Globecom
  - Reports
  - Paper submission data and advertising
- Best Paper Award committee status report
- Membership report
- Comments from TEAC
- New Officers

# IEEE ComSoc DSTC

## DSTC

**Data Storage Technical Committee**  
**IEEE Communications Society**

### ▪ **Goals and activities:**

- Technical committee under IEEE Communications Society to promote data storage related technologies and their applications.
- The Data Storage Technical Committee (DSTC) promotes advances in state-of-the-art communications, signal processing and coding technologies to enhance data storage systems, in order to achieve high storage densities, fast access, and low error rates.
- Activities: sponsoring / co-sponsoring technical sessions at major conferences, organizing workshops and tutorials, and organizing special issues of IEEE journals and magazines.
- Bridge between storage industry and universities to engage research collaboration

### ▪ **Members**

- 33 Active Members
- 229 Members

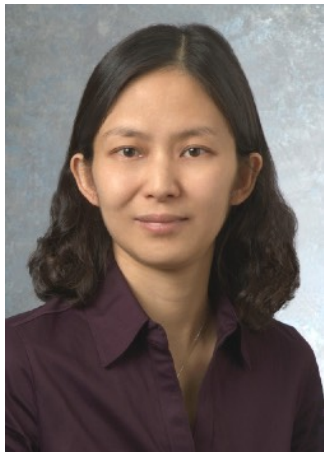
# 2017-2018 Officers



**Chair**

Brian Kurkoski

Japan Advanced  
Institute of Science  
and Technology



**Vice-Chair from  
Industry**

Xinmiao Zhang

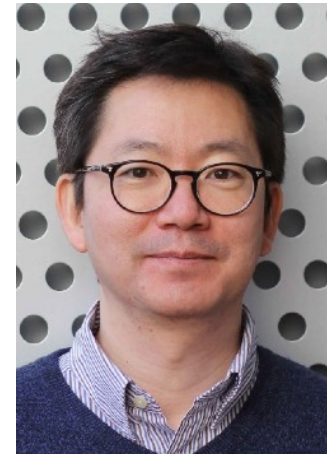
Ohio State University  
(formerly Western  
Digital Corp)



**Vice-Chair from  
Academia**

Shayan Garani  
Srinivasa

Indian Institute of  
Science



**Secretary**

Jeongseok Ha

Korea Advanced  
Institute of Science  
and Technology



**Treasurer**

Qi Qi

Avago Technologies

# Globecom 2018

- 9–13 December 2018 // Abu Dhabi, United Arab Emirates
- There was not be a dedicated data storage track at Globecom 2018
  - This is per Abbas Jamalipour, the general TPC chair
- Instead SAC “Cloud Computing, Networking and Data Storage” track
  - Chair is Khaled Salah, Khalifa University
- Some of the TPC members are from the data storage community

# ICC 2019

- 20-24 MAY 2019 // Shanghai, China
- Deadlines:
  - **Technical Symposia Papers: 14 November 2018**
  - Tutorial Proposals: 11 November 2018
  - Workshop Proposals: 22 July 2018
- Data Storage track is selected as part of the Selected Areas in Communications (SAC) Symposium
- Track Chair: Xinmiao Zhang, The Ohio State University
- Updates:
  - 24 papers have been submitted.
  - The review process has started, and notifications will be sent on 02/03/2019

## TPC members

- Paolo Amato, Micron
- Suayb Arslan, MEF University
- Edward Au, Huawei
- Benjamin Belzer, Washington State Univ.
- Cai Kui, Singapore Univ. of Tech and Design
- Shayan Garani, Indian Institute of Science
- Fakhreddine Ghaffari, ENSEA
- Jeongseok Ha, KAIST
- Anxiao (Andrew) Jaing, Texas A&M University
- B. V. K. Vijaya Kumar, Carnegie Mellon
- Brian Kurkoski, JAIST
- Yue Li, Memverge
- Soheil Mohajer, U. Minnesota
- Milos Stanisavljevic, IBM Zurich Research Laboratory
- Bane Vasic, University of Arizona
- Minghua Xia, Sun Yat-Sen University
- Eitan Yaakobi, Technion

# Globecom 2019

- 9-13 December 2019 // Big Island, Hawaii, USA
- Deadlines:
  - **Paper Submission: 15 April 2019**
  - Tutorial Proposals: 15 March 2019
  - Workshop Proposals: 15 February 2019
  - Industry Panel Proposals: 14 June, 2019
- Track on Cloud & Fog/Edge Computing, Networking and Storage is selected as part of the Selected Areas in Communications Symposium
- Track Chair: Anxiao (Andrew) Jiang, Texas A&M University

# ICC 2020

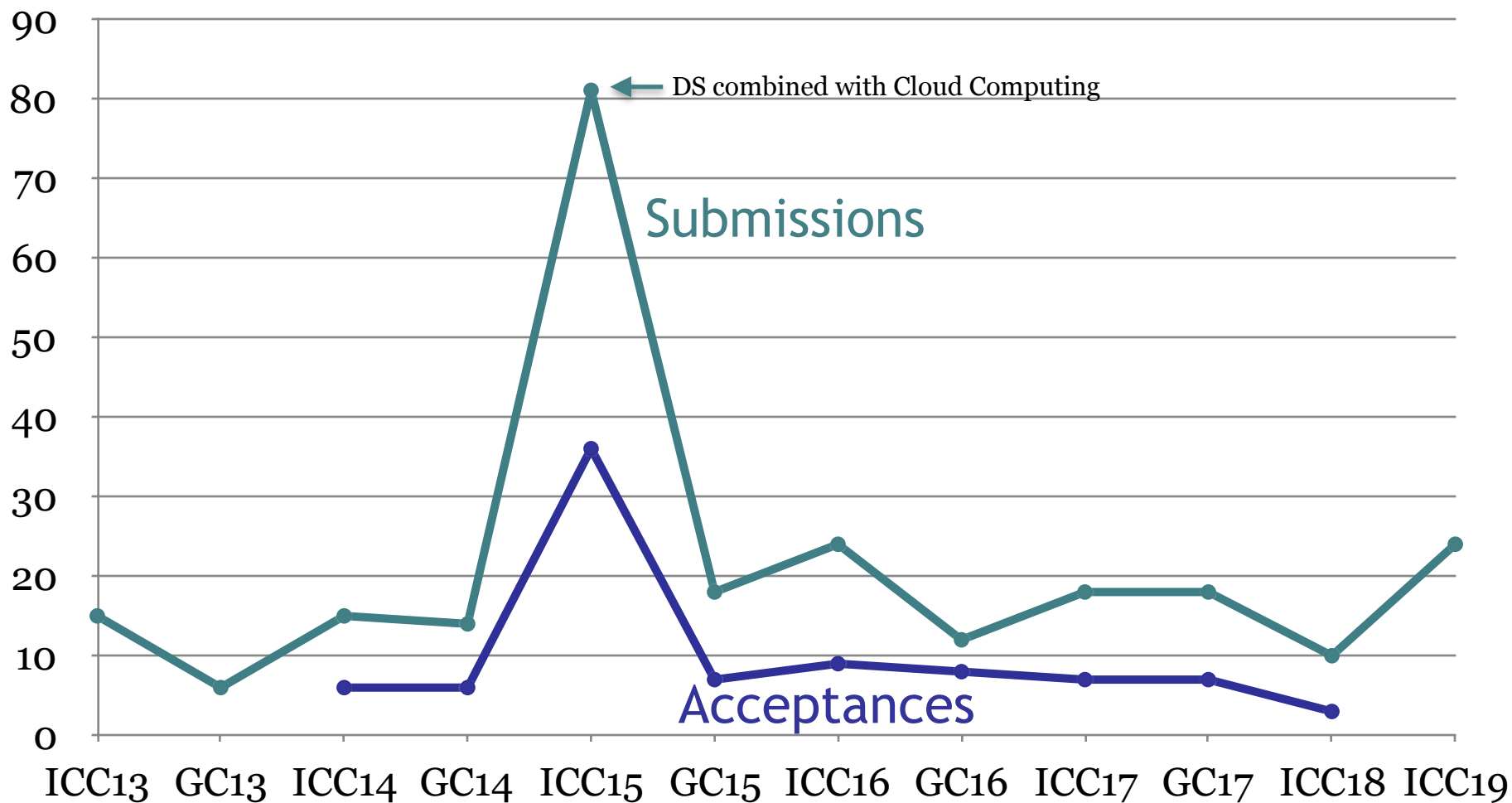
- June 7–11
- Dublin, Ireland
- Track Chair nominee: Eitan Yaakobi (Technion)
- No recent updates from TPC Chair.

# Globecom 2020

- December 7–11
- Taipei, Taiwan
- Track Chair nominee: Bane Vasic (Univ of Arizona) .



# DS Number of Submissions



- Acceptance rate is fixed at around 40% by ComSoc
- Goal: more submissions

# Advertising of DS Track

Generally speaking, we would like to increase the number of ICC/GC data storage track submissions

For ICC 2019, we more aggressively advertised:

- Frequent announcements on DSTC mailing list
- HPC <https://lists.mcs.anl.gov/mailman/listinfo/hpc-announce> Someone suggested this at the ICC meeting. It is a very high-volume CFP list. It's for high-performance computing, but sometimes distributed storage calls appear
- Cai Kui sent messages to: (1) Chinese professors wechat group (2) related researchers in Singapore, including the professors in NTU, NUS, and my former colleagues at A\*Star (3) Some Thai professors I usually met at Intermag. (Thank you!)

We had 24 submissions, highest in a few years

Possible additional advertising for the future:

- Information Theory society has an active mailing list
- Magnetism Society mailing list. Not sure the procedure.
- Regional mailing lists local to conference venue (GC2019 in Hawaii)

# 2016-17 Best Paper Award

- DSTC gives a Best Paper Award and a Best Student Paper Award
  - 2016–2017 Best Paper Award
  - 2016–2017 Best Student Paper Award
- Co-Chairs:
  - Chao Tian (Texas A&M)
  - Yuval Cassuto (Techion)
- Award committee members:
  - Lara Dolecek (UCLA)
  - Parikshit Gopalan (Vmware, Inc.)
  - Xiaohu Tang (Southwest Jiaotong University, China)
- Status:
  - 11 papers nominated in total: 10 journal papers+1 conference paper
  - Each award committee member was assigned 6 papers to evaluate
  - Reports expected in Jan. 2019, and co-chairs will summarize.
  - Announcement by March 2019.

**Report: Chao Tian**

# DSTC Web Site

- Now hosted on ComSoc web site
- <http://dstc.committees.comsoc.org>
- Google “DSTC IEEE”
- Send updates to Jeongseok Ha

- Home**
- Mailing List
- Activities
- Awards
- Officers
- Meetings
- 2017-2018 Election

## Welcome to the Data Storage Technical Committee

The **Data Storage Technical Committee** is a [technical committee](#) of the [IEEE Communications Society](#).



### Charter

The Data Storage Technical Committee (DSTC) promotes advances in state-of-the-art communications, signal processing and coding technologies to enhance data storage systems, in order to achieve high storage densities, fast access, and low error rates. This is accomplished by activities such as sponsoring technical sessions at major conferences, organizing workshops and tutorials, and organizing special issues of IEEE journals and magazines.

### NEWS

- DSTC officer election is coming, [see information on candidates for the 2017-2018 term](#). November 16, 2016
- You have found the new DSTC web site. ComSoc now provides a nifty new site, although we lost the old design with its patterned media background. Eventually, the old site will disappear. November 16, 2016
- [ICC 2017](#) will be held in Paris, France. Submit your papers to the [Data Storage](#)

# Become a Member

DSTC Member = On the DSTC mailing list

## **Subscribe**

- To subscribe to the DSTC mailing list, send a message to:
- `listserv@listserv.ieee.org`

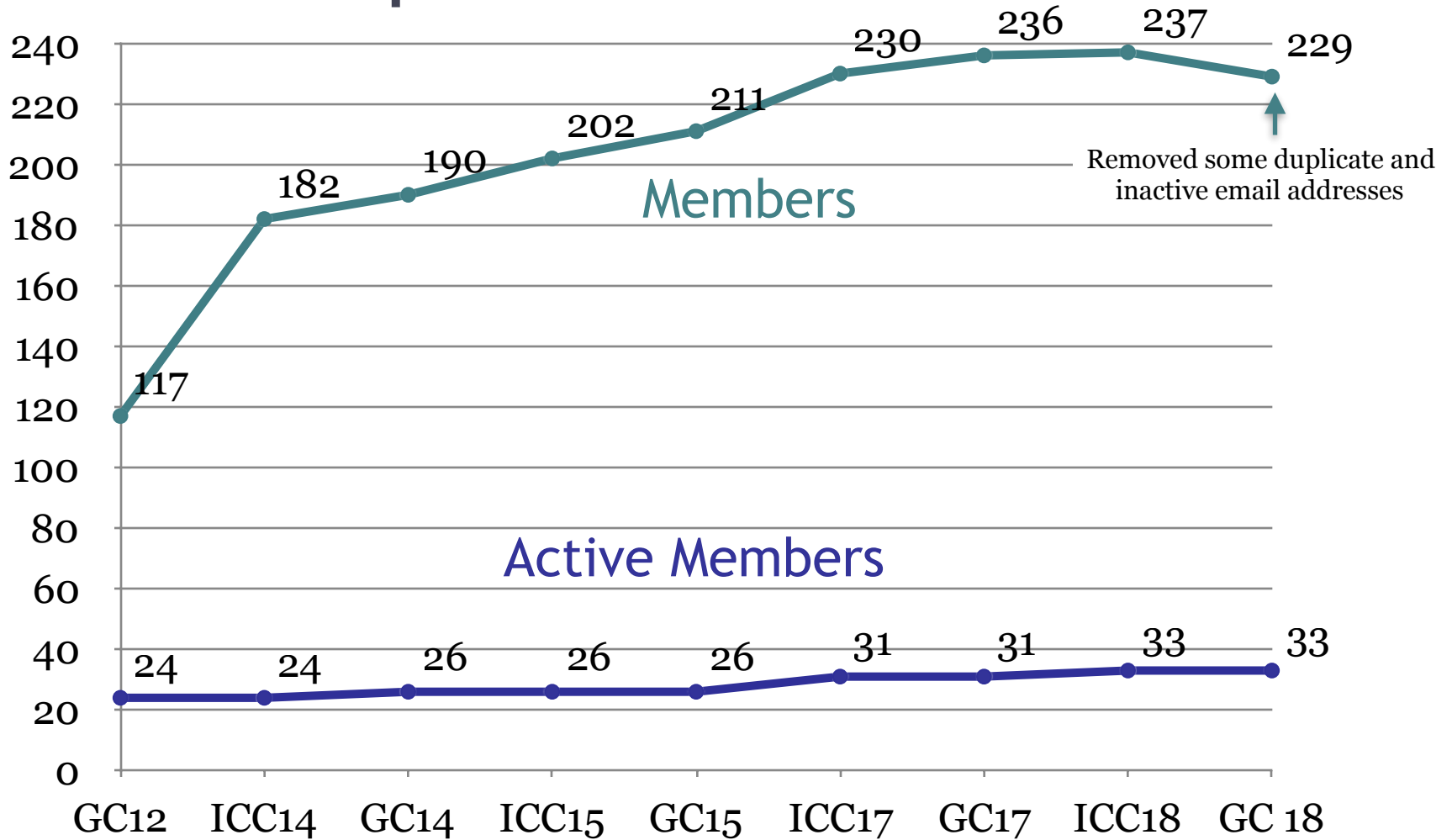
with message body:

- `subscribe dstc Your Name, Your Affiliation`

## Active Members

(1) Attend TC meetings at least twice in person or through teleconferencing in the past three years; (2) Organized and chaired a data storage track at ICC/Globecom in the past three years; (3) Served in a Data Storage Track/Workshop TPC at least twice in the past three years at ICC/Globecom

# Membership Growth



# Comments from TEAC

- TEAC = Technical and Education Activities Council
- Wants to encourage the Technical Committees (such as DSTC) to increase their activity.
- Much discussion of updating Policy and Procedures, e.g. only ComSoc members should vote, but not explicitly given in P&Ps.
- Emerging Technologies Initiatives:
  - Molecular and Biological Communications: elevate to TC
  - Smart Grid Communications: elevate to TC
  - New: Machine Learning for Communications
  - New: Full Duplex Communications
- Educational Activities Board: Summer schools, 5G and Beyond Education, iYes — Young Engineers Forum, new training courses.

# 2019-2020 Officers

## **Chair**

Shayan Srinivasa Garani, Indian Institute of Science, Bangalore, India

## **Vice-Chair from Industry**

Hironori Uchikawa, Toshiba Memory Corporation

## **Vice-Chair from Academia**

Xinmiao Zhang, The Ohio State University, Columbus, OH, USA

## **Secretary**

Jeongseok Ha, Korea Advanced Institute of Science and Technology (KAIST), Republic of Korea

## **Treasurer**

Seyhan Karakulak, Western Digital

Results of election ended on December 7 — 33 active members had the right to vote.