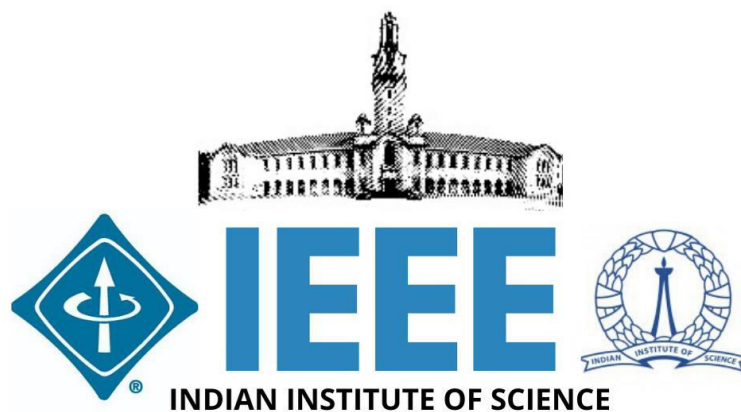


Annual Report 2019

IEEE COMSOC STUDENT BRANCH CHAPTER, INDIAN
INSTITUTE OF SCIENCE, BENGALURU



Introduction

1. The IEEE ComSoc student chapter was started at IISc on 13th January 2011.
2. In the year 2019, we have held the following events:
 - a. Technical Talk on "Virtualization - a key driver for IoT and 5G" by Fawzi Behman on 22nd March 2019.
 - b. Technical Talk on “Evolution of Cellular Wireless Technology: 1G to 5G” by Prof. Prasad Guhem on 31st October 2019.
3. In the remaining of 2020, we plan the following events:
 - a. Technical talks by experts in the industry to help students gain perspective of what the industries work on and bridge the gap between academia and industry.
 - b. Half day workshop on non-technical aspects of research with talks on technical paper writing, how to choose a research problem, how to communicate research, time management, etc.
 - c. Outreach programme by visiting other colleges to give talks and seminars in association with UPP.
 - d. Conduct membership drives in all upcoming conferences including webinar and remote conferences.
4. Currently, there are 18 Comsoc members in our institute.
5. It is our privilege to host the IISc-IEEE ComSoc events on an official website to reach out to more people. In this regard, I as a chairperson take the responsibility to form a website team to update the website <https://ieee.iisc.ac.in> with the latest and upcoming events.
6. We are also having plans to come up with more sophisticated and interactive web page designs in the future.

IEEE ComSoc EXECOM DETAILS

SL NO	NAME	IEEE REGISTRATION NUMBER	Email id	Mobile Number	POSITION HELD
1	Prof. T. Srinivas	08255663	tsrinu@ieee.org	91-9740922377	Faculty Advisor
2	Chandana S Deshpande	93950469	Deshpande.s.chandana@gmail.com	91-7411676589	CHAIRPERSON
3	Priya J. Nadkarni	92637276	priya.j.nadkarni@gmail.com	+91-9738163306	VICE CHAIRPERSON

EVENTS HELD SUMMARY

Sl No	Event Date	Title	Duration of Event	Attendee Strength
1	22/03/2019	Technical Talk "Virtualization - a key driver for IoT and 5G", by Fawzi Behman, President, TelNet Management Consulting, Inc. Vice-Chair, IEEE NA Communications Society	1 hours (16:00-17:00)	20
2	31/10/2019	Technical talk "Evolution of Cellular Wireless Technology: 1G to 5G" by Prasad Gudem, University of California at San Diego	1 hour (16:00-17:00)	30

Detailed description of Events:**Event 1**

TITLE: Technical Talk on "Virtualization - a key driver for IoT and 5G"

VENUE: Golden Jubilee Seminar Hall, ECE Department, Indian Institute of Science.

DATE and Time: 22/03/2019, 4:00-5:30 pm.

Number of participants: IEEE: 15 Non IEEE: 5 Total: 20

Details of Resource person:

Fawzi Behman is a thought leader, author, and entrepreneur in technology positioning, advancing the adoption of technology in serving key markets. He spent over 35 years in the industry and held various executive and leadership positions with Tier 1 companies in the areas of communications and networks spanning service provider, equipment vendor, and semiconductor in US and Canada. Being passionate about technology & automation, Fawzi founded TelNet Management Consulting Inc. in 2009 offering professional services in the areas of technology trends, IoT/AI/5G technology positioning, and smart networking solutions development for key markets. Fawzi has been a keynote & distinguished speaker, at several domestic and international conferences. He has several publications including a book on "Collaborative Internet of Things for Future Smart Connected Life and Business " published by

Wiley. Fawzi is currently the vice-chair of IEEE ComSoc for NA, chair of IEEE Central Texas, Region 5 Conference Committee chair, chair of ComSoc&SP and EMBS&Computer Joint chapters. He received several awards from Industry and IEEE.

Brief Description of the Event:

Fawzi Behman gave a talk on "Virtualization - a key driver for IoT and 5G " on 22nd March 2019 at Golden Jubilee Hall, ECE, IISc. Mr. Behman took us through the technological and standards progress, and initiatives for IoT, and 5G. Sample use cases and emerging of ecosystem cloud based solutions were discussed. The talk addressed how virtualization will play an important part in accelerating the adoption of IoT and 5G and services roll-out. The event was organized by the Execom group of the IEEE-IISc ComSoc and IEEE-IISc Student branch. The event was coordinated by Prof T. Srinivas, IEEE-IISc ComSoc chapter advisor and Mrs. Anandi Giridharan, IEEE-IISc Student Branch advisor.

Event 2

TITLE: Technical Talk on “Evolution of Cellular Wireless Technology: 1G to 5G”

VENUE: Golden Jubilee Seminar Hall, ECE Department, Indian Institute of Science.

DATE and Time: 31/10/2019, 16:00-17:00

Number of participants: IEEE: 20 Non IEEE: 10 Total: 30

Details of Resource person:

Prasad Gudem received a B. Tech degree in Electrical Engineering from the Indian Institute of Technology, Madras, India in 1988 and a Ph.D. degree in Electrical Engineering from the University of Waterloo, Waterloo, Ontario, Canada in 1996. He was Vice President of Engineering at Qualcomm until 2018 and led the development of multiple generations of cellular transceivers that sold over three billion chips and used in top-tier products such as iPhone, Samsung, etc. Dr. Gudem was instrumental in establishing the Qualcomm RFIC group in Bengaluru that developed low-tier transceivers which sold over one billion parts. He is currently an Adjunct Professor in the Department of Electrical and Computer Engineering, University of California at San Diego, La Jolla, CA, USA. He has 50+ patents and 40+ IEEE publications. He has taught several graduate-level classes and co-advised 12+ Ph.D. students and a recipient of the Graduate Teaching Award.

Brief Description of the Event:

Prof. Prasad Gudem gave a talk on 31st October 2019 at Golden Jubilee Hall, ECE, IISc. Prof. Gudem gave an insight into how the cellular wireless technology has revolutionized the communication industry and transformed the lives of people. Through his talk on “Evolution of

Cellular Wireless Technology: 1G to 5G” he led us through the journey of cellular wireless technology from its infancy, with the advent of 1G (AMPS), to the pinnacle, with the successful deployment of 5G (mmWave) and how the challenges have been overcome. The event was organized by the Execom group of the IEEE-IISc ComSoc and IEEE-IISc Student branch. The event was coordinated by the chapter advisor Prof T. Srinivas, ECE, IISc and Mrs. Anandi Giridharan, IEEE-IISc student branch advisor.

Photo Gallery:

