

Annual Report 2020

IEEE COMSOC STUDENT BRANCH CHAPTER, MANIPAL INSTITUTE OF TECHNOLOGY

Introduction

For the expansion of the society we are planning to create awareness of the communication society benefits to the students and conduct a membership drive where the students from all branches but mainly Electronics and communication and Information and communication technology departments will be encouraged to register.

As part of activity conduction for students we are planning to organize a series of at least 5 webinars on the current trends of 5G technology and (Internet of things) IoT systems where the students will be encouraged to participate and enhance their understanding in these emerging fields.

We also plan on conducting workshops on new generation mobile applications.

Seminars on miniaturized antenna development for wireless communications, high speed wireless communication technologies will be conducted.

To encourage students in research and development we will conduct project competitions where students will participate and demonstrate their ideas and learn from others as well.

Apart from this we will be trying to have a conference in 2021.

As part of community development we will be conducting the following activities:

Since this region is having a coastal belt, there is an ample opportunity for the development of technology in aquaculture. We will try to get the fishermen in this region to involve in smart aquaculture by engaging them and creating awareness about current research in underwater communications to them which will help them in obtaining a better yield.

We will be creating awareness about Atmanirbhar Bharat (self-reliant India) in the community where the people will be encouraged to develop technologies for solving local problems with global outreach by themselves. To achieve this we will involve the community to participate in hands-on sessions and webinars and also provide technical support and expertise to them through MIT to help them gain necessary insight to build their stuff.

IEEE ComSoc EXECOM DETAILS

SL NO.	NAME	IEEE REGISTRATIO N NUMBER	Email id	Mobile Number	POSITION HELD
1	Dr.Ujjwal Verma	85031883	ujjwal.verma@m anipal.edu	9741672467	Faculty Advisor
2	Krithika M Pai	96467177	krithika180500@ gmail.com	8073531719	CHAIRPERSON
3	Padmashree G	96967267	padmashreeg@g mail.com	9880024042	VICE CHAIRPERSON
4	Mary Ann George	94624401	starmaryann124 7@yahoo.com	9632249677	SECRETARY/TREAS URER

**Add Rows as required

EVENTS HELD SUMMARY

Sl No	Event Date	Title	Duration of Event	Attendee Strength
1	19/09/2020	Inauguration	1hr	25
2	05/12/2020	Webinar on ‘Trends on applied AI in Medical Imaging’	1hr	39

Each Event Description

Event 1

TITLE: Inauguration

VENUE: *Cisco WebEx (online event)*

DATE and Time: 19/09/2020 5pm-6pm

Number of participants: IEEE:22 Non IEEE: 3 Total: 25

Details of Resource person (in brief)

Dr. Aloknath completed his Bachelor of Engineering in the year 1985, Masters in the year 1989 from the Indian Institute of Science Bangalore. He was awarded a Doctorate from McGill University in 1993. For his various achievements, he has been awarded the MTC Outstanding Corporate Award: Technology, Zinnov 'Intrapreneurship of Year' Award in the year 2016, and the TechCircle Business Transformation Award. He was a visiting professor for IIT Roorkee, an adjunct professor at IIT Delhi. Currently, he is the corporate Vice president and Chief Technology Officer at Samsung R&D Institute Bangalore. He is also the chairperson of IEEE communication society Bangalore.

Brief Description of event:

A new IEEE Communication Society Student Chapter was inaugurated at Manipal Institute of Technology, Manipal on 19 September 2020 in the virtual presence of Dr. Aloknath De, Chair IEEE ComSoc Bangalore Chapter, CTO Samsung R&D Bangalore, India. The function was presided over by Dr. Vinod V Thomas, Registrar Evaluation, Manipal Academy of Higher Education (MAHE). The event was attended by students and faculties of various colleges under IEEE Mangalore Sub-Section. The executive committee members of the IEEE Mangalore Subsection were also present on the occasion.

The function began with an invocation by Ms. Shrishma, Research Scholar at MIT Manipal which was followed by a welcome address and introduction to the President by Ms. Padmashree, Vice-Chair, IEEE-MIT ComSoc Student Chapter. The President of the function Dr. Vinod V. Thomas reminisced his experiences of the IEEE student branch at MIT Manipal. He recalled that IEEE Student Branch at MIT was started way back in the early 1980s, and has now established various student chapters (SPS, WiE, ComSoc).

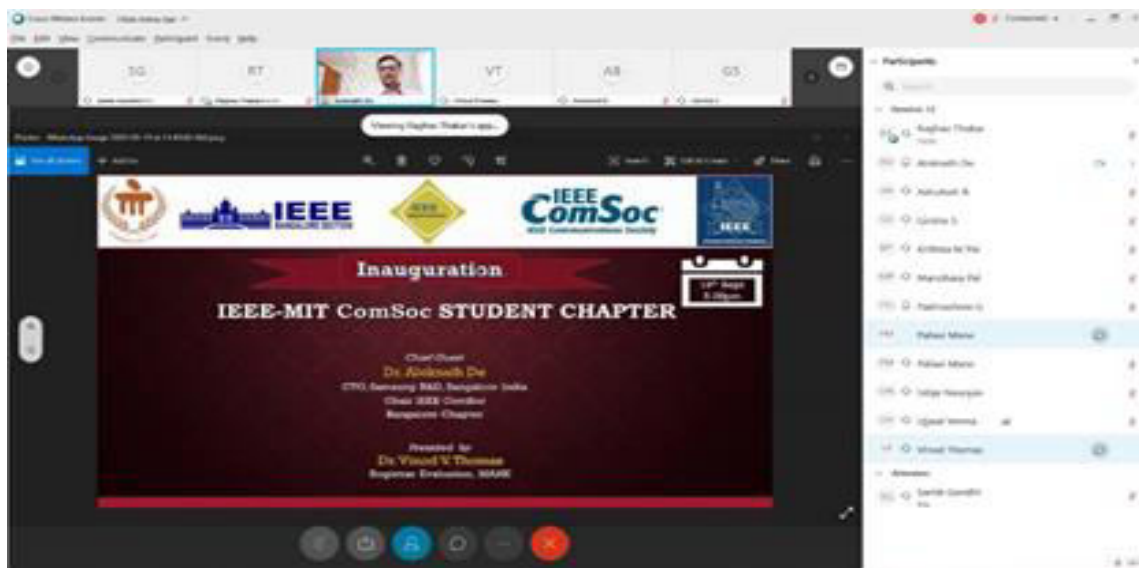
Mr. Ashutosh Holla, member of the IEEE-MIT ComSoc Student Chapter, introduced the Chief Guest of the function, Dr. Aloknath De which was followed by the address from the Chief Guest. The Chief Guest talked about various ComSoc activities that were conducted by ComSoc chapters in different institutions also about emerging technologies in the communication space.

Krithika M Pai, Chair IEEE-MIT ComSoc student chapter spoke about the activities planned under the IEEE-MIT ComSoc student chapter for the next one year. The faculty advisor for IEEE MIT ComSoc Student Chapter is Dr. Ujjwal Verma, from Department of Electronics and Communication Engg, MIT, Manipal.

Dr. U C Niranjana, Chair IEEE-Mangalore SubSection highlighted the importance of IEEE in MIT and in this region.

Finally, the Vote of Thanks was proposed by Mr. Girish, member of the IEEE-SBM ComSoc Student Chapter.

The inauguration function was compered by Mr. Raghav, member IEEE-SBM, MIT Manipal



Event 2

TITLE: Webinar on Trends of Applied AI in Medical Imaging

VENUE: *MS-Teams (online event)*

DATE and Time: 05/12/2020

Number of participants: IEEE: 19 Non IEEE: 20 Total: 39

Details of Resource person (in brief)

Mr. Veerendra Shetty (Veeran) is Director & Head of Media & Medical Solutions R&D Group at Samsung R&D Institute Bangalore (SRI-B), since 18th Dec 2014.

Veeran has rich experience of over 23 years in Global H R&D and Innovations Management in Healthcare & Mobile Industry Sector and Computer Science & Engg education. His engagement in Innovation, R&D, Product Management, Product Care & Solutions domain spans across Healthcare Imaging Devices, Health IT Products and Imaging Tech in Mobile & Smart Devices. Most recently he led the development & commercialization of 10+ Artificial Intelligence (Deep Learning) Tech based imaging solutions in global products.

Before joining Samsung, for nearly 18 years, Mr Shetty was associated with Siemens Healthcare Global R&D & Customer Solutions efforts in the Radiology, Cardiology and Oncology domain imaging products, working in Germany, USA and India. In this journey he held various global responsibilities in Technical, Technical Management and General Management functions.

He holds a Master's degree in Computer Science & Engg from IIT Mumbai, and served as a Member of Faculty in Computer Science & Engg at National Institute of Technology (NIT) Surathkal.

While holding patents in Enterprise Architecture for Healthcare Image Management, he contributed as a member of International Standards Committee DICOM WG 7. He continues to be the observer in WG20 & WG29. He is currently a Senior Member of IEEE and member board of studies in Medical Electronics at MS Ramaiah Institute of Technology.

In Aug-2016, Indian Technology Congress (a consortium of Institution of Engineers, National Design & Research Foundation, IEEE, American Society of Mechanical Engineers, Indian Institute of Production Engineers) conferred "ITC-2016 Medical Diagnostics and Devices Innovation Award" in recognition of his contribution towards functional and strategic leadership in advancing innovative healthcare products in international markets.

In Nov-2016, he was recognized and awarded as Distinguished Alumni of Malnad College of Engineering, Hassan, Karnataka.

Brief Description of event:

The event started with the welcome address by the Student Chair of IEEE-MIT ComSoc Student Chapter, Ms. Krithika M Pai. Pooja Prabhu, student member of IEEE-MIT ComSoc Student Chapter introduced the speaker. This was followed by the guest lecture by Mr. Veerendra Shetty, who enlightened us with the concepts of AI in Medical Imaging.

During this webinar session, Mr. Veeren discussed the following:

- Ø Basics of AI/ Deep Learning.
- Ø Current trends in artificial intelligence (AI) as being applied today in the medical field
- Ø Global health market trend
- Ø Engineering approaches to solve clinical challenges
- Ø Challenges and Opportunities of AI in medical imaging

The closing remarks of the event was given by Dr. U C Niranjana, who is the Chair, IEEE Mangalore Sub Section followed by vote of thanks by Ms. Mary Ann George student member of IEEE-MIT ComSoc Student Chapter.

Ms. Mary Ann George was the Master of ceremony of the event.

This programme is arranged in the motive of sharing the knowledge and practical experience of Mr. Veerendra Shetty who has a long years of experience in Healthcare industry. The overall organization and deliverance of the webinar was helpful and satisfied the participants.

Also the feedback about the session was collected from all the participants to improve the sessions that will be conducted in the mere future.

The objective of the webinar was achieved and benefitted the faculties, research scholars and students.

Trends of Applied AI in Medical Imaging

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Applied AI – Research & Engineering View for Products & Solutions

Participants

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- KRITHIKA M PAI-180953006 Organizer
- Manohar Pai [MAHE-MIT]
- Mary Ann George 180900107
- Niranjan U.C.
- Radhika M. Pai [MAHE-MIT]
- Ujjwal Verma [MAHE-MIT]
- Veeren Shetty (Guest) Guest

Attendees (21)

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Ujjwal Verma [MAHE-...]

Mary Ann George 180...

Veeren Shetty (Guest)

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Trends of Applied AI in Medical Imaging

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Participants

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- DEVARAJA SURESH MALAGO...
- KOVVURU RAVINDRA REDDY...
- LEROY JOEL DSOUZA-170907...
- MOHAMMED SINAD-170902...
- Padmashree G 190900125
- Ramya S [MAHE-MIT]
- Raviraj Holla M [MAHE-MIT]
- RIDDHI SHETTY - 704270134
Outside your organization
- tejaswini shetty
Outside your organization
- Vedanth V Shetty & A SJR
Outside your organization

Niranjan U.C.

Mary Ann George 180900107

Anil Kumar

Pallavi R. Mane [MAHE-MIT]

Radhika M. Pai [MAHE-MIT]

Manohar Pai [MAHE-MIT]

DEVARAJA SURESH MALAGODRA - 200980010

Veeren Shetty (Guest)

Ujjwal Verma [MAHE-MIT]

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05-12-2020