

2022

ANNUAL REPORT

IEEE COMSOC KOLKATA CHAPTER

www.kolkata.chapters.comsoc.org

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Annual Report-2023

IEEE Communication Society Kolkata Chapter

Part A – Administrative Activities

Annual General Meeting, Committee Meeting, Connection with Local/National Organizations meeting.

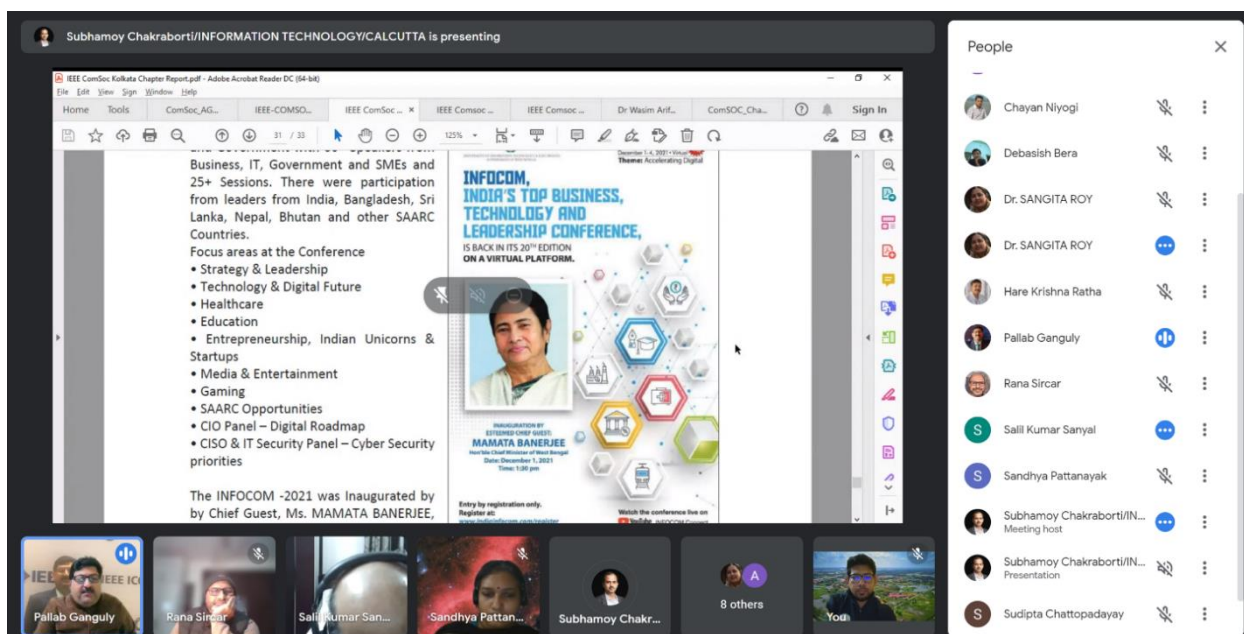
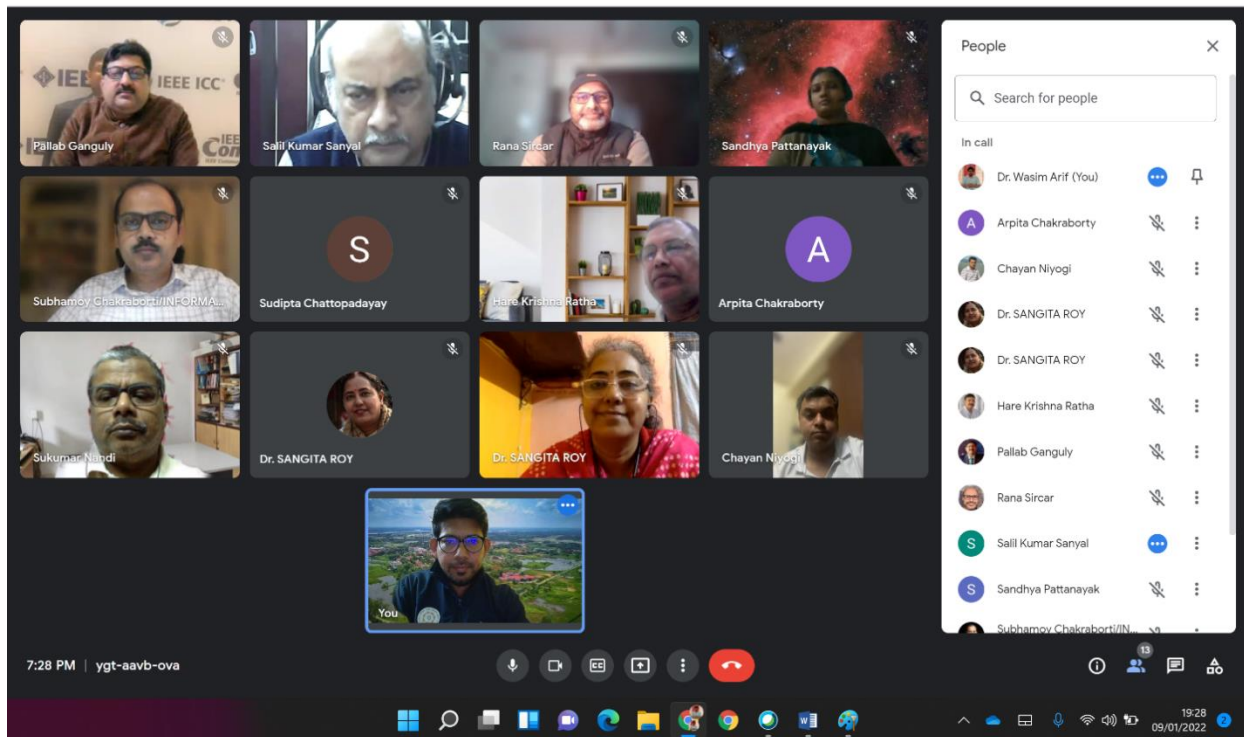
Total Number of Administrative meetings: 4

- **The Annual General Meeting (AGM-2022)**
 - Held on 09th January 2021 via an online platform (Google meet). Thirteen members attended this meeting.
- **Executive committee meeting-1**
 - Held on 22nd April 2022
 - The following points were discussed
 - IEEE Shannon's Day on 30 April, hosted by NIT Silchar where eminent speakers from ISRO, and IIT Delhi delivered talks on various aspects of Shannon's work in modern communication technology including space communication.
 - Srijan 3.0-National level Entrepreneurial Event, hosted by NIT Silchar where student innovators and entrepreneurs came across to participate in different events and interacted with the experts for mentorship, funding, and other opportunities.
 - GraTE'7'-2022, graduate thesis evaluation, a congress where the best PhD and Master's thesis were recognized and awarded, jointly organized by IEEE Kolkata, Bangalore, Hyderabad and Kerala Sections. The Finale of which is scheduled on 28.05.2022.
 - It was also decided to continue the flagship Tech Talk Series and Industry Chair were entrusted to organize the events. The following events were planned:
 - IEEE ComSoc Kolkata Chapter entitled as 'Tech Talk 2.0: Bringing Industry to Academia' on 25th June, 2022 (tentative) in Virtual mode in association with IIT Guwahati, JU Kolkata, NIT Silchar, and Narula Institute of Technology, Kolkata.
- **Executive committee meeting-2**
 - Held on 08th September
 - The following points were discussed
 - 1. Report of the programs organised.
 - 2. Discussion on activity plans and execution.
 - 3. Membership Enhancement drive.
 -



• Executive committee meeting-3

- Held on 12th December 2022
- The following points were discussed
 - Finalize the slate for 2023 for the ComSoc Kolkata chapter
 - Tech Talk 2.1 and 2.2 plan with industry experts from Ericsson and TCS with topics on GPU uses case for wireless mobility and Metaverse respectively
 - Annual report submission plan



Part B – Subsection, Student and Affinity Group Activities

Student /Young Professionals / Women in Engineering / Life Member /Humanitarian Activities /Educational Activities.


Humanitarian Activities:


On June 2022, heavy rainfall had crippled the north eastern state of Assam leaving lakhs of people scrambling for dry/ high lands, food, and clean water. Assam received 62% above normal rainfall in the pre-monsoon season from March to May this year: 672.1 mm instead of an average of 414.6 mm, the highest in ten years. The rainfall also caused severe landslides in many of the hills surrounding the state.


Silchar, the second largest city of Assam faced its worst flood in living memory with more than 80% of the city being inundated. The rainwater from neighboring hilly states like Manipur and Mizoram added to the flooding, breaching the Bethukandi dyke on Barak River was primarily responsible for Silchar's fate.

IEEE ComSoc Kolkata Chapter has donated generously funds to help the flood-hit areas of Silchar. IEEE ComSoc Kolkata Chapter in association with NITS-ComSoc Student Branch Chapter took an initiative to visit the flood affected areas and provide relief materials to the flood affected population. The "Flood Relief Activity" was organized on 1st July, 2022. Students and faculty members from the Institution organized this drive to supply cooked food and drinking water to flood-hit areas in and around the institute premises.

All the faculty members and students were fully engaged in the preparation of food. The food was freshly cooked and was made sure that proper hygiene was maintained. The food was carefully transported to the flood hit areas of Masimpur, Babutilla. The faculty members as well as students from all other departments actively participated in the relief drive.







IEEE ComSoc Kolkata Chapter



in association with



NITS-ComSoc Student Branch Chapter

organizes

FLOOD RELIEF ACTIVITIES

(supply of cooked food and drinking water)

July 1, 2022 | 11 am - 2 pm

Silchar, Assam, India



Following are some of the glimpses of the event:



Dr. Wasim Arif, Faculty Advisor, NIT Silchar ComSoc SBC (leftmost) along with other faculty members and students of the NITS-SBC before leaving for the drive.



IEEE ComSoc students as well as the faculty members helping in food distribution in Masimpur, Babutilla.



Part C – Professional Activities

1. IEEE Cyber Security Congress 2022 on 28th October 2022 at Taj Bengal, Kolkata

Cyber Security Congress 2022 - Kolkata took place on 28th October 2022 at Taj Bengal as a 4th City after successful Execution in Bangalore, Mumbai and Delhi. IEEE Comsoc Kolkata Chapter was a technology partner in the event. Mr. Pallab Ganguly, Immediate Past Chair of IEEE ComSoc Kolkata Chapter was invited to deliver Keynote Address on the 'OT Security Demystified'.

It was not only the concluding city of the series, but also a celebration of Cyber Security Awareness Month. It was immensely successful with around 200+ people footfall across industries including Government, Law Enforcement, Enterprises, SMB, Academia and Media. The buzz and enthusiasm were reflected in almost all leading print and televisions Media.



Mr. Pallab Ganguly, Immediate Past Chairman, IEEE Kolkata ComSoc Chapter delivering a keynote lecture on cyber security.





Memento to IEEE ComSoc Kolkata Chapter for being a proud associate of the event and is received by Mr. Pallab Ganguly. Immediate Past Chair of IEEE ComSoc Kolkata Chapter



Participants attending an interesting session during the event.



2. IEEE Comsoc Kolkata Chapter partnered in ABP INFOCOM 2022, 1st - 3rd December 2022 at ITC Sonar, Kolkata

IEEE Comsoc Kolkata Chapter once again proudly collaborated as the "Associate Partner" in one of the most prestigious ABP INFOCOM 2022. In ABP's centenary year, the 21st edition of INFOCOM 2022 – Calcutta chapter was held between December 1-3, 2022 at ITC Sonar Calcutta. The theme for INFOCOM 2022 was "The Age of Change Makers" which put the spotlight on leaders, products and solutions which have broken new grounds, challenging the status quo and soaring to new heights in an uncertain and uncharted territory. Over 1200 delegates from large corporates, SMEs, policymakers attended the conference. Apart from that 500 CIOs & CISOs from pan India, Bangladesh, Sri Lanka, Nepal & Bhutan participated.


 An ABP Initiative
 The Age of Change Makers

ASSOCIATE
PARTNER


Kolkata Chapter
 IEEE Communications Society

Thank You For Supporting
INFOCOM 2022

The event was inaugurated by H.E. Dr. C V Ananda Bose, Governor of West Bengal. Many industry stalwarts delivered keynotes. Some of the notable names include:

1. Padma Shree Kiran Karnik, Ex-President-NASSCOM, Ex-Director, Central Board of Directors, RBI & Chairman, Indraprastha Institute of Information Technology
2. Bhaskar Pramanik: Ex-Chairman, Microsoft & Director SBI
3. Kulmeet Bawa: President & MD, SAP India Subcontinent
4. Anil Valluri: MD & Regional Vice President, Palo Alto Networks
5. Vishal Dhupar: MD Asia South, NVIDIA
6. Rajesh Rege: President, Honeywell India
7. K P Unnikrishnan: VP-Marketing, Asia Pacific & Japan-Palo Alto Networks
8. Amitabh Ray, MD, Ericsson Global Services India
9. Sunil Gupta, Co-Founder & CEO, Yotta Infrastructure
10. Nikesh Arora, Chairman & CEO, Palo Alto Networks
11. Shailender Kumar, MD-Oracle India Pvt Ltd
12. Sharad Sanghi, MD, NTT Ltd. India & EVP- Global Data Centres & Marine Cable, NTT Ltd,

The event also saw spotlight sessions by celebrities

1. Sunil Gavaskar
2. Gundappa Viswanath
3. Devdutt Pattanaik
4. Prosenjit Chatterjee
5. Sadhguru Yaggi Vasudev

There were focused discussions on Information security in the CIO Connect track, where industry leaders and policy makers engaged in discussions.





Distinguished delegates of the event with Mr. Subhamoy Chakraborti, Chair IEEE CpomSoc Kolkata Chapter (first in the left side).



3. Global Webinar 2022 on 'Data Protection and Privacy', on 28th January 2022 (Online)

The Global Webinar 2022 on 'Data Protection and Privacy' was organized on 28th January, 2022 under the banner of IEEE ComSoc Kolkata Chapter. The webinar was jointly organized with Infosec foundation where industry leaders and policy makers joined in to discuss various issues related to cyber security, data privacy and protection policies. Mr. Sanjay Kumar Das, Member Secretary CS-CoE, and Joint Secreary, Department of IT, Govt. of West Bengal graced the occasion and talked about the government policies and challenges. Mr. Nandkumar Sraveda, A senior advisor to government policies, Dr. P K Khosla, Senior Director, CDAC, Mr Surya Rao, General Manager at Jindal Power Ltd., Mr. Fredrick Wahome, CEO Secuntus Technologies, KCSFA were present as resource person in the event. The event was very successful with participation from industry and academia.



Mr. Subhamoy Chakraborti, Chair IEEE CpomSoc Kolkata Chapter was invited as Guest Speaker to deliver a webinar session on Data Protection and Privacy.



4. Graduate Congress: Graduate Thesis Evaluation in 7 minutes (GraTE-7) on 22nd April 2022 (Online)

IEEE Communication Society **Kolkata** Chapter jointly with ComSoc **Bangalore, Kerala** and **Hyderabad** Chapter organized the 4th edition of **Graduate Congress: Graduate Thesis Evaluation in 7 minutes (GraTE-7)** on **22 April 2022** in online mode. It gave recent (last year) graduates (PG and Ph.D.) a chance to get recognized nationally for the quality of thesis/work they had carried out. Four best Ph.D. thesis and three best ME/M.Tech/MS thesis were awarded.

This year there were 26 submission of PhD thesis and 03 submissions of MTech Thesis. After 02 round of evaluation the finale were held and the shortlisted candidates were allowed to present their thesis for 7 minutes. The eminent panellists from all the chapters were present to evaluate the presentation and recommended three Best PhD thesis and one Consolation Award for MTech thesis.

Dr. Washim Uddin Mondal, PhD from IIT Kharagpur, Dr. Subhabrata Roy, PhD from Jadavpur University, and Dr. Pavan Kumar Reddy Manne, PhD from IIT Hyderabad were declared the best PhD thesis in Grate'7-2022. Ms. Gayathri J L, MTech from College of Engineering Perumon, Kerala were awarded with consolation award for her M Tech thesis. The Supervisors of the awarded thesis were also recognised. A cash prize of INR15000 with certificate were awarded to the winners.



Kolkata Chapter



Kolkata Bangalore Kerala Hyderabad

GRADUATE CONGRESS: GraTE'7'

22 April, 2022



Hosted by: IEEE Communication Society (ComSoc) Kolkata Chapter

IEEE Communication Society (ComSoc) **Kolkata** Chapter jointly with ComSoc **Bangalore, Kerala** and **Hyderabad** Chapter is organizing the 4th edition of **Graduate Congress: Graduate Thesis Evaluation in 7 minutes (GraTE-7)** on **22 April 2022** to be conducted online (virtual). It gives recent (last year) graduates (PG and Ph.D.) a chance to get recognized nationally for the quality of thesis/work they had carried out. 04 best Ph.D. thesis and 03 best ME/M.Tech/MS thesis (Great-7) will be awarded.

Registration Link: <https://forms.gle/S9uy8qWxDzXHxNJK8>

For details please log onto:
<https://kolkata.chapters.comsoc.org>
<http://bangalore.chapters.comsoc.org/important-announcement/>
<https://comsoc.ieeekerala.org/best-thesis-award/>



5. IEEE Shannon's Day Celebration on 30th April 2022 (Online)

IEEE ComSoc Student Branch Chapter, Department of Electronics and Communication Engineering, NIT Silchar in association with IEEE ComSoc Kolkata Chapter has celebrated IEEE Shannon's Day on 30th April, 2022 commemorating Claude Shannon's 105th birthday. In this regard a webinar was organized to get inspired from the life and pioneering works which jumpstarted the fields of information theory and digital communications, genetics, cryptanalysis and artificial intelligence and many more. The speakers were: Prof. Shankar Prakriya from IIT Delhi and Dr. Rajat Acharya from ISRO SAC, Ahmedabad. Prof. Prakriya talked about Non-Orthogonal and Massive Machine type Communication system, and Dr. Rajat Acharya talked about Shannon in Space where he explained the use of Shannon's Theorem in every space mission and also narrated various challenges of satellite communication from information theoretic perspective. There were



राष्ट्रीय प्रौद्योगिकी संस्थान सिलचर
National Institute of Technology Silchar

IEEE COMSOC-NIT SILCHAR STUDENT BRANCH CHAPTER & IEEE COMSOC KOLKATA CHAPTER
CELEBRATES
SHANNON'S DAY
30 APRIL, 2022
IN ASSOCIATION WITH
ELECTRONICS AND COMMUNICATION SOCIETY, NITS

SPEAKERS:

Dr. Rajat Acharya
Senior Scientist, Space Applications Centre (SAC)
ISRO

Prof. Shankar Prakriya
Professor, Electrical Engineering
IIT Delhi

Patron:
Prof. Sivaji Bandyopadhyay
Director, NIT Silchar

Mentors:
Dr. Rabul H Laskar
HoD, ECE, NIT Silchar
Prof. F A Talukdar
Branch Councillor, IEEE NITS-SBC
Mr. Subhamoy Chakraborti
Chair, IEEE ComSoc Kolkata Chapter

Convener
Dr. Wasim Arif
Faculty Advisor, IEEE ComSoc-SBC

Coordinators:
Dr. Ganesh Prasad
Dr. Prabina Pattanayak
Dr. D S Gurjar

Student Coordinator
Ms. Banani Talukdar
ComSoc SBC Student Chair
Mr. Abhinaba Dey

Lecture-1: Prof. S. Prakriya || Time: 10:45 AM
Lecture-2: Dr. R. Acharya || Time: 3:30 PM

Meeting Link: <https://nits.webex.com/nits/j.php?MTID=m39a80a343802dfa691ae3844844527e0>
Registration Link: <https://forms.gle/Ms35zAXCKmJW2lhg8>



6. IEEE ComSoc Distinguished Lecture program on 20th June 2022 (Online)

IEEE ComSoc Kolkata Chapter in association with IIT Patna organized Distinguished Lecture program on 20th June, 2022 with Prof. George C Alexandropoulos, National and Kapodistrian University of Athens, Greece. He has held research positions at various Greek universities and research institutes, as well as at the Mathematical and Algorithmic Sciences Lab, Paris Research Center, Huawei Technologies France, and he is currently an Assistant Professor with the Department of Informatics and Telecommunications, School of Sciences, National and Kapodistrian University of Athens (NKUA), Greece. He also serves as a Principal Researcher for the Technology Innovation Institute, Abu Dhabi, United Arab Emirates

The DL topic was: Reconfigurable Intelligent Surfaces: Communication, Localization and Sensing. The event was coordinated by Dr S. Anand from IIT Patna. The talk deals with in detail technological development of IRS and its implementation use cases. The DL Speaker also deliberated various issues related communication constraints, localization and sensing issues. The event ended with various interesting Q&A that has been addressed by the DL speaker. There were around 70 participants in the event.



IIT PATNA
in association with
IEEE ComSoc Kolkata Chapter, India
presents
Distinguished Lecture
on
**Reconfigurable Intelligent Surfaces:
Communications, Localization, and
Sensing**

Join us at:
20th June, 2022 (Monday)
12:30 PM to 2 PM (IST)
Virtual Mode

Speaker:
Prof. George C. Alexandropoulos
National and Kapodistrian University
of Athens (NKUA), Greece

Convenor:
Dr. Amit Kumar Singh
Indian Institute of Technology, Patna, INDIA

Link to register:
<https://docs.google.com/forms/d/e/1FAIpQLSet6Iexr-qjn82HeA3T8Diu-TU1g6Li HKuQy9g-qvTvhpC7Q/viewform>

For details Contact:
Shubham Anand
shubham_2021ee07@iitp.ac.in



7. IEEE ComSoc Kolkata Chapter's Tech-Talk 2.0 on 25th June 2022 (Online)

IEEE ComSoc Kolkata Chapter organized the first session of Tech Talk 2.0 on 25th June, 2022. After the successful completion of Tech Talk 1.0 in 2021, ComSoc Chapter continued the event with a mission to bring Industry to Academia. The first lecture of Tech Talk 2.0 was held with resource person Dr. Serene Banerjee from Ericsson Research on a topic 'AUTONOMOUS NETWORKS THROUGH THE LENS OF CAUSAL AI/ML WITH APPLICATIONS IN METAVERSE'. The talk broadly covers the Metaverse and its impact in autonomous network.

Metaverse applications have sub-microseconds' time criticality and are bandwidth intensive. Automatically configuring the networks for such high bandwidth, low latency applications is only possible with the convergence of networking first principles and advances in AI/ML. Causality adds another dimension with the promise of sample efficiency and out-of-distribution generalization. This talk will give a brief preview of the exciting work that we are involved in at Ericsson Research.

Patron:
Mr. Subhamoy Chakraborti, CTO, ABP
Chair, IEEE ComSoc Kolkata Chapter

Advisors:
Prof. Sallik K. Sanyal, JU
Prof. Sukumar Nandi, IIT Guwahati
Mr. Pallab Ganguly, CESC Limited
Im. Past Chair, ComSoc Kolkata Chapter
Prof. Sudipta Chattopadhyay, JU
Treasurer, IEEE ComSoc Kolkata Chapter

Coordinators:
Mr. Chayan Niogi, TCS
Vice-Chairman
IEEE ComSoc Kolkata Chapter

Mr. Rana Pratap Sircar, Ericsson
Industry Chair
IEEE ComSoc Kolkata Chapter

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Members:
Dr. Sangita Roy - Academic Chairperson
IEEE ComSoc Kolkata Chapter
Dr. Arpita Chakraborti - Member
Dr. Sandhya Pattanayak - Member

Student Coordinators:
Ms. Banani Talukdar
ComSoc NITS- 5BC Student Chair
Mr. Abhinaba Dey



IEEE COMSOC KOLKATA CHAPTER

PRESENTS

TECH-TALK 2.0

BRINGING INDUSTRY TO ACADEMIA

25 JUNE, 2022, 11AM IST

VIRTUAL MODE



DR. SERENE BANERJEE
ERICSSON RESEARCH

TOPIC: AUTONOMOUS NETWORKS THROUGH THE LENS OF CAUSAL AI/ML WITH APPLICATIONS IN METAVERSE

Registration link: <https://nits.webex.com/nits/j.php?RGID=rb0a456f52a5ae7633faf010d0c6e7070>

Academic Partners:

 Dept. of Computer Science and Engineering
Indian Institute of Technology Guwahati
  Dept. of Electronics and Telecommunication Engineering
Jadavpur University
  Dept. of Electronics and Communication Engineering
National Institute of Technology Silchar

Industry Partner:



Dr. Serene Banerjee, Master Researcher, Ericsson Research, Bangalore, has 17+ years of industrial experience post completion of her Ph.D. from The Univ. of Texas at Austin, under Prof. Brian L. Evans in 2004. She has a B. Tech. (H) in Electronics and Electrical Communications Engineering from IIT Kharagpur in 1999. At Ericsson she is focusing on developing AI/ML algorithms for Radio Access Networks. Prior to Ericsson she was with Texas Instruments, HP, and Johnson Controls. She has 9 granted patents, 23 peer reviewed publications and several pending.



8. IEEE ComSoc Kolkata Chapter Technical Talk on 18th July 2022 at Jadavpur University

A technical talk on “Secure and Efficient Internet of Bodies (IoB) using the Body as a ‘Wire’” was jointly organized by the Department of Electronics & Telecommunication Engineering, Jadavpur University & Communication Society, Kolkata Chapter at Room no T-3-13 of ETCE department, Jadavpur University on July 18, 2022. The presentation started at 3 PM and continued till 5.30 PM. The audience included faculty members, research scholars, post graduate students of Intelligent Automation and Robotics, and VLSI and Micro-electronics ETCE dept., undergraduate students of ETCE and also postgraduate students of Electrical and Biomedical Engineering also joined the technical presentation. In total, 75 participants attended the event.



Prof. Shreyas Sen is delivering the lecture. Prof. Sen narrated his presentation for around 2 hours, followed by a question-answer session for around half an hour. Finally, gift of honors was presented to Prof. Sen by Prof. Sudipta Chattopadhyay on behalf of IEEE Communication Society, Kolkata Chapter.



Prof. Monotosh Biswas, Head, Dept. of ETCE is welcoming the speaker



Prof. Sudipta Chattopadhyay offering a memento to Prof. Shreyas Sen on behalf of IEEE Communication Society, Kolkata Chapter



9. IEEE ComSoc 'hello' IEEE on 14th September 2022 at Jadavpur University

The IEEE “hello” was a first-of-its-kind event organized by the crown jewel of IEEE Jadavpur University Student Branch for the year 2022 on a massive scale. IEEE ComSoc Kolkata Chapter was proudly associated with the event. Mr. Subhamoy Chakraborti (Chairman, IEEE ComSoc Society Kolkata Chapter) was invited to deliver a keynote talk in the session.

Encompassing enthusiasm and audience from the entire Kolkata section of IEEE, it was a day-long networking and intellectual fiesta comprising panel discussions, guest-speaker presentations, idea presentations, inter-collegiate quizzing events, and lots more. It saw an offline presence of over 100 and active online participation of over 250. All in all, it was a grand success.

In this event, we were fortunate enough to host stalwarts of IEEE like Mr. Eric Berkowitz (Director of membership, IEEE Computer Society), Mr. Shivam Abhilash (Vice Chair of MGAB for Students and Young Professionals at IEEE Computer Society), and Mr. Subhamoy Chakraborti (Chairman, IEEE ComSoc Society Kolkata Chapter) along with stalwarts of academia and the industry such as Mr. Sumanta Mukherjee, a veteran of the cybersecurity domain and a seasoned program manager, Prof. Sarbani Roy and Prof. Suparna Kar Chowdhary, are both senior faculty members of Jadavpur University as well as long-time collaborators of our student branch and also an integral part of the Kolkata Section.



Inauguration of the event

he event started with welcoming addresses by Mr. Eric and Mr. Shivam, followed by a brief question-answer and interactive session which was followed by a panel discussion on the topic of ‘The effect of IEEE on the industrial level and its importance at the academic level’ with all panelists harmonizing in amazing synchronicity. Then followed Mr. Shivam’s presentation on “Rise of Domestic Violence and how to tackle it using AI” which was incredibly well received by the crowd due to Mr. Shivam’s charismatic and energetic persona. After that we had parallel tracks for our quiz event “IEEE-inquisitive” and the idea presentation round “Pitch-o-IEEEnovate” which saw competitive and enthusiastic



participation both online and offline. Then followed the prize distribution round followed by the closing note.



Mr. Subhamoy Chakraborti, Chair IEEE CpomSoc Kolkata Chapter were invited to distribute Certificates to the winners and participants

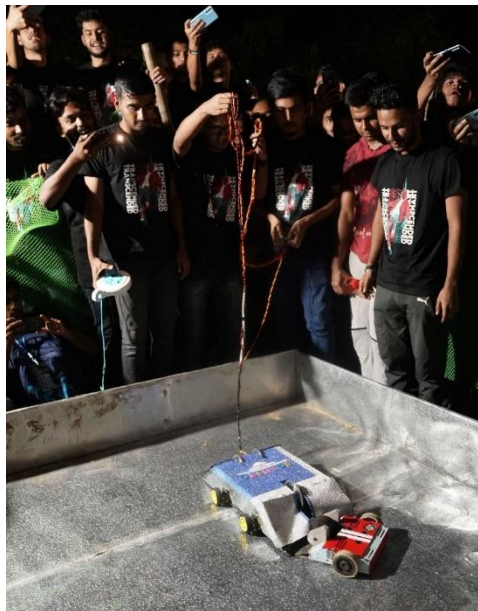


10. IEEE ComSoc associated with Tecnoesis-22 as technical partner in the Robotron event on 20- 22nd October 2022 at NIT Silchar

IEEE ComSoc Kolkata Chapter collaborated with Tecnoesis-22 the annual techno-management event of NIT Silchar and one of the most awaited technical event for the students in technically sponsoring the Robotron Module of the event.

There were three sub-events under the event. The event had a footfall of more than 5000 and istudents from different parts of the country have participated in the event. The subevents were:

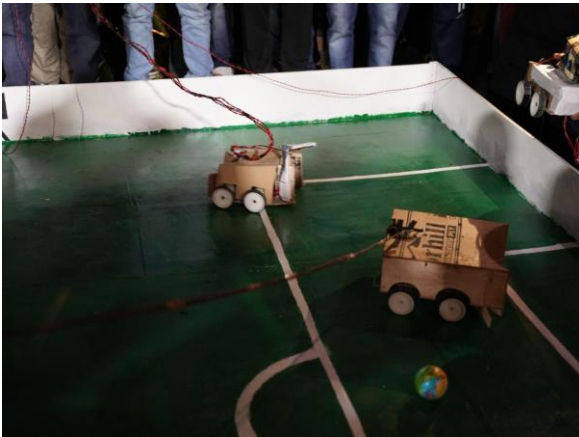
Robowars: This event was the most electrifying and thrilling in the whole module as teams from Guwahati,Tamil Nadu, Andhra Pradesh and many other places participated in this event and Team BiCorn Bots and Eastern Bots secured the Top 2 positions . In total 42 teams participated, the teams from outside the campus had very high specifications of their bots such as a 13000 + rpm rotating motor as a weapon, and a remote-control module inside a metal housing.



Robotron Arena

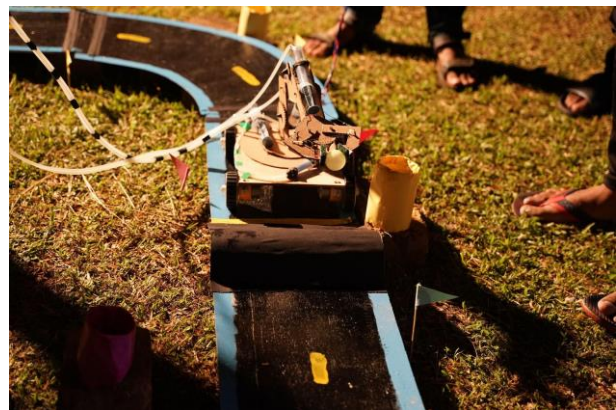


Robosoccer: This event had a lot more crowd around the arena as there was huge participation from college as well as from outside the college having teams from across the country. In total 25 teams participated and the first price was secured by Eastern Bots who were from Assam Engineering College having a high specification bot with wireless module inside.



Robo Soccer Arena

Terrain Trader: This event has a participation of 35 teams in which 5-6 teams participated from outside the college and a team from Tamil Nadu secured 2nd place in the event and 1st place was secured by the team of our college who constructed their bots with hydraulic mechanism on the terrain of high complexity and were quickest to complete the whole track.



Terrain Trader Arena



11. IEEE ComSoc Kolkata Chapter's Tech-Talk 2.1 on 14th December 2022 (Online)

IEEE ComSoc Kolkata Chapter organized the second session of Tech Talk series, Tech Talk-2.1 on 14th December 2022. After the successful completion of Tech Talk 2.0 ComSoc Chapter continued the event with a mission to bring Industry to Academia. The topic of Tech Talk 2.1 was GPU use cases and benefits in mobile wireless and the Speakers were Dr. Anshuj Garg and Ganapathy Raman Madanagopal from Ericsson Research.

Graphics Processing Units (GPUs) were initially designed for accelerating the problems related to graphics and image processing area. GPUs increasing computing power has led to their wide usage in solving general purpose compute intensive problems (General Purpose GPU computing- GPGPU). The massively parallel architecture of the GPUs with thousands of cores (processing elements) allows us to execute problems of Single Instruction Multiple Thread (SIMT) nature ten to hundred times faster than the CPU. The high computation speedups offered by GPUs have led their adoption in solving problems in Machine Learning, Scientific computing, Computer Vision, etc. The Telecom industry have stringent throughput and latency requirements. The performance requirements of telco workloads open the possibility of using the specialized accelerators like GPUs for offloading the computation. In this talk, we will give an introduction about GPU, their architecture, programming model and application programming interfaces (APIs). We will touch upon some use cases of GPUs and the resulting performance benefits. We will cover some telco-specific use cases where GPUs can be used for accelerating.

Some glimpses of the event.



12. IEEE LECTURE ON 5G - A REALITY NOW on 19th December 2022 at APC hall of Netaji Subhash Engineering College, Kolkata

IEEE AP-MTT Kolkata Chapter, and IEEE COMSOC Kolkata Chapter in collaboration with IEEEAP Student Branch Chapters of Netaji Subhash Engineering College are jointly organizing a one-day IEEE Talk on “5G - A Reality Now” in the APC hall of Netaji Subhash Engineering College in the Seminar room of ECE department on 19.12.2022 from 1.30PM to 2.30PM. Industry leader and communication systems expert Mr. Chanchal Chakraborty (CEO, ATMI Private Limited) was the resource person. He has 35 years of experience in Telecom and IT. He has worked in different capacities in NTPC, BSNL (erstwhile DOT) as ITS (Indian Telecom Service). Later, he acted as Chief Technology Officer in Aircel, Uninor and Reliance Jio. He has Rolled out Metro Network and the entire East Zone green field Mobile network (2G, 3G and 4G) for four operators including JIO. He has also worked as Principal, Staff Training College, Department of Telecommunication. He has received different accolades including “The Vishist Sanchar Seva Award” from the Ministry of Communications. In the inaugural session of the workshop, Dr. Koushik Dutta (Chair, IEEE AP-MTTs Kolkata Chapter & Head, ECE, NSEC) gave a welcome speech, followed by Prof. Swagata Roychoudhury (convenor of this event). The inaugural talks were delivered by Prof. Iti Saha Mishra, (Prof. JU, IEEE Chair-Elect 2023 of IEEE Kolkata Section), Dr. Subhamoy Chakraborti (Chair, IEEE COMSOC Kolkata Chapter), Dr. P. K. Banerjee (Emeritus Professor of ECE, NSEC), Prof. Sukumar Roy (NSEC's Dean Academics) & and Mr. Chanchal Chakraborty (CEO, ATMI Private Limited). After the grand inauguration, Mr. Chanchal Chakraborty presented a lecture on how 5G technology compares to existing technologies. He has provided an elaborate description of the design criteria and challenges involved in the development of this technology.

It created a huge interest among the attendees which comprised nearly 45 undergraduate students along with a group of 15 young scientists and faculty members (35 of them were IEEE AP-S members and 25 of them were IEEE COMSOC members). A Q&A session at the end was very informative as participants learned about current industrial requirements and had their doubts clarified.

The positive response of the participants indicates that the event was a huge success! Dr. Koushik Dutta (SAC Chair, IEEE Kolkata Section & Head, ECE, NSEC), Prof. Iti Saha Mishra, (Prof. JU, IEEE Chair-Elect 2023 of IEEE Kolkata Section), Dr. Subhamoy Chakraborti (Chair, IEEE COMSOC Kolkata Chapter), Dr. P. K. Banerjee (Emeritus Professor of ECE, NSEC), Prof. Sukumar Roy (NSEC's Dean Academics) concluded the meeting by giving a vote of thanks and concluding remarks.





Inauguration of the IEEE Talk on “5G - A Reality Now” in the APC hall




Mr. Subhamoy Chakraborti, Chair IEEE CpmSoc Kolkata Chapter addressing the gathering during the event




13. IEEE ComSoc Kolkata Chapter: Tech Talk2.2 on Metaverse, 20th December 2022 (Online)

IEEE Kolkata ComSoc Kolkata Chapter is extremely happy to present the third tech talk (Tech Talk 2.2) on Metaverse and its impact on the Industry' on 20th December, 2022 in Virtual mode in association with IIT Guwahati, JU Kolkata, NIT Silchar, and Narula Institute of Technology, Kolkata. Mr. **Prasanna Krishnan Venkatesa** was the invited speaker who is the Principal Innovation Evangelist for Communication, Media & Information Services (CMI), North America unit at Tata Consultancy Services. Prasanna is leading multiple thought leadership engagements with our CMI customers, helping them weave their Metaverse story, resolve business challenges with Data Driven Insights, Explore and conceptualize offerings relevant to address real world whitespaces involving research in the areas of AR/VR, AI/ML, Blockchain, Edge and 5G. Prasanna completed his Masters in Software Sciences from BITS Pilani in 2006. Prior to TCS he was with Infosys and 3i Infotech.

The session covered various topics on Metaverse from introducing the concept to the different architecture layers, security considerations and industry use-cases along-with some of the early adopter examples from across the globe. Mr. Wasim Arif, Secretary coordinated the session and Mr. Chayan Niyogi, Vice Chairman hosted the event. There were 45 participants from academia and industry present in the session. The session was followed by Q&A where the participants have interacted with the speaker with some brilliant questions.




IEEE COMSOC KOLKATA CHAPTER
PRESENTS



TECH-TALK 2.2

BRINGING INDUSTRY TO ACADEMIA

December 20, 2022 | 10:30 AM (VIRTUAL)



Prasanna Krishnan Venkatesa
Principal Innovation Evangelist, Communication, Media & Information Services, Americas, TCS

Prasanna is leading multiple thought leadership engagements with CMI customers, helping them weave their Metaverse story, Resolve business challenges with Data Driven Insights, Explore and conceptualize offerings relevant to address real world whitespaces involving research in the areas of AR/VR, AI/ML, Blockchain, Edge and 5G. Prasanna completed his Masters in Software Sciences from BITS Pilani in 2006.

Topic: Metaverse and its Impact on the Industry


Innovation is anything, but business as usual". New ideas not only solve problems but also provide a means to 'Grow and Transform' in this ever-disruptive environment. Metaverse is on a path to become pervasive across all industry verticals as it reimagines customer interaction to delivering any and all products & services. Exploring the art of possible with Metaverse and how businesses can evolve to remain relevant and close to the needs of their stakeholders.

Coordinators:


Mr. Chayan Niyogi
chayan.niyogi@gmail.com

Mr. Rana Pratap Sircar
rana.pratap.sircar@ericsson.com


Academic Partners



Dept. of Computer Science and Engineering
Indian Institute of Technology Guwahati



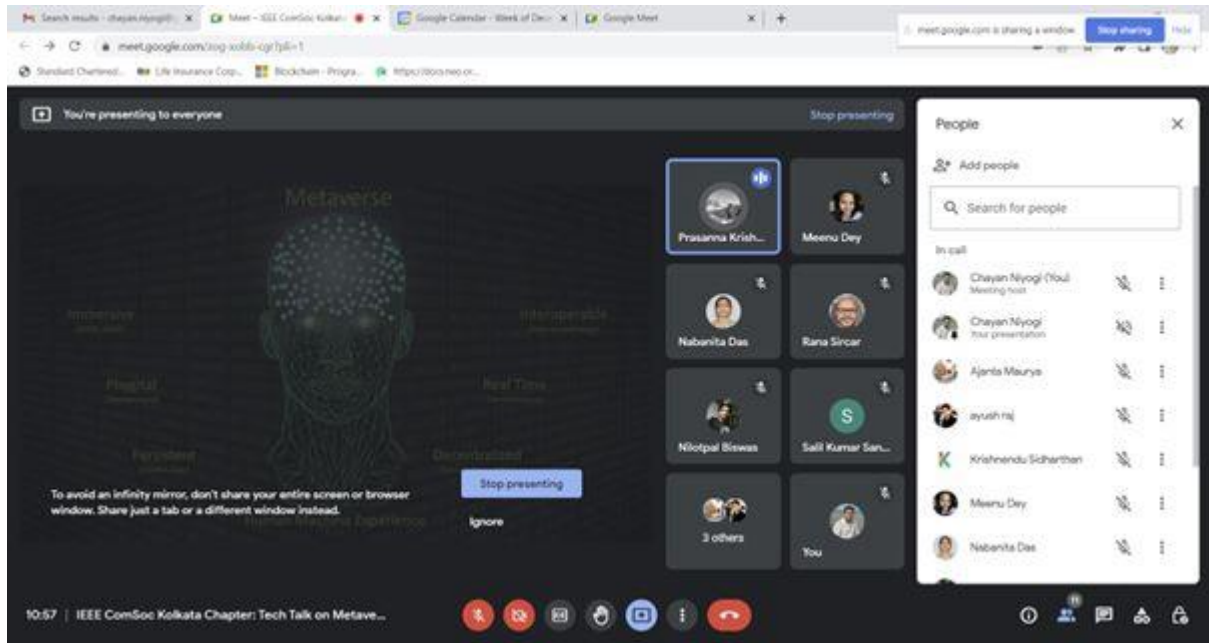
Dept. of Electronics and Telecommunication Engineering
Jadavpur University



Dept. of Electronics and Communication Engineering
National Institute of Technology Silchar

Dr. Wasim Arif
E: arif@ece.nits.ac.in || M: 9435730057





Snap shots of the online event.



14. SrijaN 3.0: National Entrepreneurship Summit (NES-22) hosted by NIT Silchar on hybrid mode from 09 -04-2022 to 13-04-2022.

IEEE ComSoc Kolkata Chapter was pleased to associate with “SRiJaN” a flagship event of the National Institute of Technology Silchar aimed motivate and educate people about entrepreneurship as well as to provide a meeting ground for industry experts and young budding entrepreneurs, not just from NIT Silchar but from several distinguished institutions.

The event served as a platform for bringing together budding entrepreneurs, venture capitalists, start-ups, instilling a sense of community. This year NIT Silchar saw the Third version of SRiJaN - SRiJaN 3.0.

The aim and mission of organising ‘SRiJaN 3.0’ was to sustain and harness the entrepreneurial spirit among students who are potentially the next generation of entrepreneurs.

Including several lectures by high profile speakers, panel discussions, focused workshops, case study analyses and challenging competitions among other brilliantly planned events, it was an enriching learning experience for all the technical minds to transform their innovation into venture to create a sustainable future.

The Summit also entailed Business Plan Competitions and strategy building virtual investment business games to make the participants aware of the actual nature of the competition to be faced in the real world’s market scenario. There were more than 4000+ students participated in various events.



SRiJaN 3.0 – National Entrepreneurship Summit (NES-’22)

Theme – “Obstacles to Opportunity”





Inauguration of the event by Prof. Sivaji Bandyopadhyay Director, NIT Silchar and other distinguished members and felicitation of young student entrepreneurs.





Glimpses of various events of Srijan 3.0





Glimpses of Expert Interaction during Srijan 3.0





Glimpses of Successful Entrepreneur Interaction session during Srijan 3.0.



2022 Executive Committee Members:

1. Subhamoy Chakraborti - Chairman
2. Chayan Neogi - Vice Chairman
3. Wasim Arif - Secretary
4. Sudipta Chatterjee - Treasurer
5. Rana Pratap Sircar - Industry Chairman
6. Sangita Roy - Academic Chairperson (Chair, Membership development)
7. Pallab Ganguly - Immediate Past Chairman
8. Salil Kumar Sanyal - Member
9. Sukumar Nandi - Member
10. Arpita Chakraborti - Member
11. Sandhya Pattanayak - Member





WISH YOU A VERY HAPPY AND PROSPEROUS
NEW YEAR-2023.

THANK YOU FOR YOUR SUPPORT AND
COOPERATION IN PREVIOUS YEARS.

WE SHALL BE LOOKING FORWARD TO MAKE OUR
COLLABORATION BETTER AND STRONGER TO
ADVANCE COMMUNICATIONS AND NETWORKING
TECHNOLOGY FOR THE BETTERMENT OF
HUMANITY.

thank you

