

ANNUAL REPORT

2024

PROFESSIONAL
SOCIAL
ACTIVITIES

IEEE ComSoc Kolkata Chapter

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Annual Report-2024

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-2024)**

- Held on 18th January 2024 between 6:00- 7:00 PM at the Eastern Metropolitan Club, A-73, Purba Diganta, Santoshpur, Kolkata, West Bengal 700075. The meeting adopted the Annual Report-23, accepted Audited Accounts and consented on the proposed SLATE-24.

Executive committee meeting-1

Date: 26.02.2024

Time: 6:30 PM

Mode: Online (meet.google.com/xdt-wsfi-zem).

Mr. Subhamoy Chakraborti, Chair, welcomed all the members of the executive committee. He then briefly placed the agenda of the meeting. The details are as below:

- The chair thanked all the members for their committed effort in previous year and expressed his desire to enhance the activities under IEEE COMSOC Kolkata Chapter. He deliberated that this year the chapter's focus will be on increasing academic and industry driven events aiming to engage students.
- The committee members unanimously decided the thrust areas for the upcoming events, and they are: 5G/5G++, Smart Grid, Cyber Security, Quantum Technologies, AI in integrated sensing and communication.
- Signing of MoU with WEBEL and PTA for engaging industry experts to train young graduates and early career professionals on various industry relevant and emerging technologies for sustainability.
- A COMSOC DL talk to be organized at Kolkata and NIT Silchar
- The following events are planned to be organized:
 - An FDP on IoT at AOT, Kolkata.
 - IEEE Tech Talk
 - Workshop on IoT Stack at Jadavpur University
 - CIO Meet
 - CIO Round Table with a theme to reach out to underprivileged. Also. It is proposed to include academia in the industry CIO Round Table for an inclusive and holistic development of the society.
 - Industry Panel in CALCON-24



- A workshop on Optical Fibre Communication
- Student projects and hackathon
- Partnership in INFOCOM-24.
- To continue IEEE COMSOC Kolkata Chapter's association as organizing partner of GRATE'7'-24 which is jointly organized by IEEE Bangalore, Kerala and Hyderabad chapters.
- It is proposed to organize student competition and hackathon events in academic institutions.
- It is opined that all the events under the banner of IEEE COMSOC Kolkata Chapter are encouraged to have a capsule session on IEEE COMSOC membership benefits.

Executive Committee meeting-2

Date: 17.08.2024

Time: 6:00 PM

Mode: Online (meet.google.com/xdt-wsfi-zem).

Mr. Subhamoy Chakraborti, Chair, welcomed all the members of the executive committee. He then briefly placed the agenda of the meeting. He joyfully mentioned about Dr. Nelson Fonseca who has been elected as COMSOC President this year.

Dr. Wasim Arif, Secretary presented a report on various activities that has been conducted during last quarters. He presented a brief report about the activities conducted and planned during last quarters.

The resolution of the meeting is as follows:

1. The following events are planned to be organized in coming quarter:

S/N	Description	Date(s) and Venue	Assigned to
1.	Communication Partner with PTA (Philanthropic Technical Association)	06 th September 2024 Kolkata	Prof. Amlan Chakraborty Dr. Pallab Ganguly Mr. Sourav Das Mr. Chayan Neogi Mr. Rajesh Dutta
2.	Workshop on IoT for students and faculty members	October 2024.	Prof. Amlan Chakraborty
3.	Technical talk from an industry expert	September/October, 2024	Mr. Chayan Neogi
4.	Partnering with Infosec Foundation	November 2024 Kolkata	Dr. Pallab Ganguly Mr. Subhamoy Chakraborti
5.	CIO Meet	October/November, 2024	Dr. Pallab Ganguly Mr. Sourav Das Mr. Subhamoy Chakraborti
6.	Collaboration with Infocom-2025	December 2024 Kolkata	Mr. Subhamoy Chakraborti Dr. Pallab Ganguly
7.	IEEE ANTS-2024	15-18 December 2024, IIT Guwahati	Prof. Sukumar Nandi Dr. Pallab Ganguly Mr. Subhamoy Chakraborti



8.	Industry Panel at IEEE CALCON 2024	14 - 15 December 2024 Kolkata	Dr. Pallab Ganguly Mr. Subhamoy Chakraborti
9.	MoU with WEBEL for imparting	September/October Kolkata	Dr. Pallab Ganguly Mr. Subhamoy Chakraborti
10.	MoU with Grid India, GoI for	August/September Kolkata	Mr. Subhamoy Chakraborti Dr. Pallab Ganguly
11.	Technical Collaboration with AEST-2024 to be held at AIEM, Kolkata	25-26 October 2024 Kolkata	Prof. Debasish De Dr. Wasim Arif
12.	Technical Collaborations ICDSC-24 to be organized at Siliguri in November 2024.	04-08 November 2024 Siliguri	Prof. Debasish De

2. A student hackathon and competition to be organized at NIT Silchar.
3. Prof. Sukumar Nandi will conduct some technical sessions on 'D2D Communications' in October/November-2024 in NER.
4. A one-day seminar on 'Quantum Communications' to be organized by Prof. Amlan Chakraborty, Prof. Debasish De.

The committee members opined to enhance the industry academia engagements through various activities and also urged to impart quality training to students and teachers of technical institutes in order to create a better future for society. Also, it is opined to include a slot in each COMSOC event for a representation of IEEE Membership benefits and Society activities to encouraging participants to join the IEEE community and be a part of IEEE's purpose of making a better world.

- The following points were discussed
 - 1. Report of the programs organized.
 - 2. Discussion on activity plans and execution.
 - 3. Membership Enhancement plans.



Executive committee meeting-3

Date: 21.12.2024

Time: 6:00 PM

Mode: Online (<https://meet.google.com/qbp-shwo-ymm>)

The Excom meeting of IEEE COMSOC Kolkata Chapter held on 21.12.2024 from 6:00 PM via online.

Mr. Subhamoy Chakraborty, Chair, welcomed all the members of the executive committee. He then briefly and placed the agenda of the meeting.

The chair thanked all the members for their committed effort in the year 2024 and expressed his desire to enhance the activities under IEEE COMSOC Kolkata Chapter. He deliberated that this year the chapter should focus on increasing academic and industry driven events aiming to engage students with Industry experts and leading organizations.

The resolution of the meeting is as follows:

1. Dr. Ganguly briefed about the MOU with WEBEL and the future MOU to be signed with PTA and briefed the house about the outcome of the FDP and SDP program with PTA at RCCIIT.
2. Prof. A Chakraborty and Dr. P Ganguly discussed the Smart intelligent park and its architecture to be installed in and around Kolkata and Newtown collaboration with IEEE COMSOC and WEBEL (Dept of IT & E). COMSOC will be associated with the Conference ICCEEM - 2025. Prof. Chakraborty suggested an IoT Labs by the COMSOC fraternity.
3. Prof. D. De proposed an IoT workshop and Dr. Ganguly suggested including COMSOC in all the activities led by Dr. De in IETE activities.
4. Prof. S K Sanyal explained about the IEEE COMSOC supported lab and to prepare a project proposal to IEEE COMSOC headquarters through the local chapter for funding. The outcome will be seminar, workshop, hands on in different colleges, universities and membership drive for academicians and students.
5. Prof. S Chattopadhyay emphasized on IEEE COMSOC and WIE collaborations. In near future, IEEE conferences near about will be held with IEEE COMSOC and WIE in a special track for women and awards will be given. More outreach programs with WIE and IEEE COMSOC will be organized. Dr. Ganguly and Prof Chattopadhyay again discussed the Optical Workshop to be held in Heritage or JU with more participation of students.
6. Chairman confirmed that the AGM will be held on 15th January 2025.
7. Chairman also asked all the members to brief about the programs led by individual members.
8. Dr. Ganguly suggested that an IEEE COMSOC calendar 2025 to be prepared soon.
9. Dr. Ganguly suggested that Prof Sanyal may include COMSOC in LMAG activities.
10. The SLATE 2025 was discussed by the Chairman and had a consensus of the COMSOC EC Members.

Part B – Subsection, Student and Affinity Group Activities

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



IEEE DL Talk at NIT Silchar COMSoc Student Branch Chapter (SBC03701C)

Date: 18th March 2024

Venue: NIT Silchar

IEEE ComSoc Kolkata Chapter
National Institute of Technology Silchar

IEEE ComSoc NITS-Student Branch Chapter (SBC03701C)
PRESENTS
IEEE ComSoc DISTINGUISHED LECTURE

WEDNESDAY
MARCH 18, 2024
16:00- 17:00 Hrs.
NATIONAL INSTITUTE OF TECHNOLOGY SILCHAR

SPEAKER:
KUMAR VIJAY MISHRA
Research Scientist
University of Maryland, College Park, USA

TOPIC:
Reconfigurable Intelligent Surfaces for Communications and Radars

ABSTRACT:
<https://www.comsoc.org/kumar-vijay-mishra>

COORDINATOR
Dr. Anirban Mukherjee
FCCIT, Kolkata

Prof. Anjan Chakraborty
Calcutta University, Kolkata

Prof. Subhamy Chakraborti
CEO, IIS, Calcutta, IIS Kolkata Chapter

Prof. Sudipto Chattopadhyay
Jadavpur University, Kolkata

Dr. Wasim Aul
NIT Silchar

Prof. Debashish De
MAGUI, WB

IEEE COMSOC Kolkata Chapter in association with IEEE COMSOC Student Branch Chapter, NIT Silchar (SBC03701C) organized the prestigious IEEE COMSOC DISTINGUISHED LECTURE on 18th March 2024 at NIT Silchar.

Speaker: Dr. Kumar Vijay Mishra

Title: Reconfigurable Intelligent Surfaces for Communications and Radars

Abstract: In recent years, reconfigurable intelligent surfaces (RISs) have shown promising abilities to control and manipulate electromagnetic (EM) waves through modified surface boundary conditions. These surfaces are electrically thin and comprise an array of spatially varying sub-wavelength scattering elements (or meta-atoms). Through careful engineering of each meta-atom, RISs can transform an incident EM wave into an arbitrarily tailored transmitted or reflected wavefront. Recent

developments in RISs have opened exciting new opportunities in antenna design, as well as communications and radar systems. RISs - wherein meta-atoms are embedded with active components - lead to the development of low-cost, lightweight, and compact systems that can produce programmable radiation patterns, jointly perform multi-function communications, and enable advanced radars for next-generation military platforms. This talk will introduce RISs and their various applications in designing simplified communications and radar systems, wherein the RF aperture and transceiver are integrated within the RIS. For example, dynamic reconfiguration of the RIS aperture in a wireless communications transmitter facilitates beam steering, frequency agility, and phase modulation without conventional front-end devices such as phase-shifters, mixers, and switches. We will present our recent work on reconfigurable RIS control, RIS-enabled direct signal modulation, and deep learning-based RIS design. Finally, we will present deploying RIS as a reflector in the wireless channel for aiding non-line-of-sight radar and joint radar-communications.

Short Bio of DL Speaker: Kumar Vijay Mishra (S'08-M'15-SM'18) obtained a Ph.D. in electrical engineering and M.S. in mathematics from The University of Iowa in 2015, and M.S. in electrical engineering from Colorado State University in 2012, while working on NASA's Global Precipitation Mission Ground Validation (GPM-GV) weather radars. He received his B. Tech. summa cum laude (Gold Medal, Honors) in electronics and communication engineering from the National Institute of Technology, Hamirpur (NITH), India in 2003. He is currently Research Scientist at the University of Maryland, College Park under the ARL-ArtIAMAS program; Technical Adviser to Singapore-based automotive radar start-up Hertzwell and Boston-based imaging radar start-up Aura Intelligent Systems; and honorary Research Fellow at SnT - Interdisciplinary Centre for Security, Reliability and Trust, University of Luxembourg. Previously, he had research appointments at the United States Army Research Laboratory (ARL), Adelphi; Electronics and Radar Development Establishment (LRDE), Defence Research and Development Organisation (DRDO) Bengaluru;



IIHR - Hydrosience & Engineering, Iowa City, IA; Mitsubishi Electric Research Labs, Cambridge, MA; Qualcomm, San Jose; and Technion - Israel Institute of Technology.

The talk was attended by the UG and PG students, PhD Scholars, Faculty members of the institute. The talk was followed by an interactive session between PhD scholars working in RIS enabled systems and received valuable input from the speaker. The event was very successful and attracted good feedback from the attendees.



Dr. Kumar Vijay Misra was felicitated by the faculty members of NIT Silchar with virtual presence of Mr. Subhamoy Chakraborti, Chair IEEE COMSOC Kolkata Chapter and group photo with all the attendees



Part C – Professional Activities

1. IEEE COMSOC Distinguished Lecture at RCCIIT, Kolkata

IEEE ComSoc Kolkata Chapter
in association with
IEEE ComSoc Student Branch Chapter, Jadavpur University
&
RCC Institute of Information Technology (RCCIIT), Kolkata
presents
IEEE ComSoc Distinguished Lecture
13 MARCH, 2024 | 11-12 HRS
VENUE: RCCIIT, KOLKATA

SPEAKER
DR. KUMAR VIJAY MISHRA
Research Scientist
University of Maryland, College Park, USA

TOPIC:
Reconfigurable Intelligent Surfaces for
Communications and Radars

ABSTRACT:
<https://www.comsoc.org/kumar.vijay.mishra/>

COORDINATOR
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Co-ordinators:
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Jadavpur University, Kolkata
Dr. Wasim Arafat
IIT Kharagpur

Advisors:
Mr. Subhanshu Chakrabarti
RCCIIT, Kolkata
Prof. Anirban Chakrabarti
Jadavpur University, Kolkata
Prof. Debashis De
IIT Kharagpur

Date: 13th March 2024
Venue: RCCIIT, Kolkata

IEEE COMSOC Kolkata Chapter in association with IEEE COMSOC Student Branch Chapter, Jadavpur University and RCC Institute of Information Technology (RCCIIT), Kolkata organized the prestigious IEEE COMSOC DISTINGUISHED LECTURE on 13th March 2024.

Speaker: Dr. Kumar Vijay Mishra
Title: Reconfigurable Intelligent Surfaces for Communications and Radars

Abstract: In recent years, reconfigurable intelligent surfaces (RISs) have shown promising abilities to control and manipulate electromagnetic (EM) waves through modified surface boundary conditions. These surfaces are electrically thin and comprise an array of spatially varying sub-wavelength scattering elements (or meta-

atoms). Through careful engineering of each meta-atom, RISs can transform an incident EM wave into an arbitrarily tailored transmitted or reflected wavefront. Recent developments in RISs have opened exciting new opportunities in antenna design, as well as communications and radar systems. RISs - wherein meta-atoms are embedded with active components - lead to the development of low-cost, lightweight, and compact systems that can produce programmable radiation patterns, jointly perform multi-function communications, and enable advanced radars for next-generation military platforms. This talk will introduce RISs and their various applications in designing simplified communications and radar systems, wherein the RF aperture and transceiver are integrated within the RIS. For example, dynamic reconfiguration of the RIS aperture in a wireless communications transmitter facilitates beam steering, frequency agility, and phase modulation without conventional front-end devices such as phase-shifters, mixers, and switches. We will present our recent work on reconfigurable RIS control, RIS-enabled direct signal modulation, and deep learning-based RIS design. Finally, we will present deploying RIS as a reflector in the wireless channel for aiding non-line-of-sight radar and joint radar-communications.



and Jadavpur University. The event was very successful and ended after a round of interaction with attendees.



2. IEEE COMSOC Kolkata Chapter partnered in ABP INFOCOM 2024

Date: 5th – 7th December 2024

Venue: ITC Sonar Bangla, Kolkata

IEEE COMSOC Kolkata Chapter was the “Associate Partner” in ABP INFOCOM 2024 which is an annual flagship Business, Technology and Leadership event organized in Kolkata by ABP Group, India’s leading media conglomerate in association with leading technology, analysts and strategy groups. The event was held during December 5-7, 2024, at ITC Sonar Calcutta in presence of national and international delegates. The event was aimed to bring together key players from various sectors to discuss and explore the latest trends and opportunities in the Indian market.

The theme for INFOCOM 2024 was “Disruptive Sustainability” 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.

There were focused discussions on Cybersecurity in the CIO Connect track, where industry leaders and policy makers engaged in discussions. A team from IEEE COMSOC were invited to the event. Dr. Pallab Ganguly representing IEEE COMSOC Kolkata Chapter in the panel discussion on ‘Embracing Failure: Moving from Cybersecurity Prevention to Resilience’.



Dr. Pallab Ganguly representing IEEE COMSOC Kolkata Chapter in the CISO panel discussion on 'Embracing Failure: Moving from Cybersecurity Prevention to Resilience'.



Mr. Subhamoy Chakrabarti, Chairman, IEEE COMSOC Kolkata Chapter and Jt Secretary, INFOCOM, Dr. Pallab Ganguly, Industry Chair representing IEEE COMSOC Kolkata Chapter in the INFOCOM 2024 along with Mr Sanjay Kar Chudhury, R10 Industry Chair and Dr Suparna Kar Choudhury, Chair, IEEE Kolkata Section

3. Signing of MOU between IEEE COMSOC, Kolkata Chapter and WEBEL



Date: 28th September 2024
Venue: WEBEL IT Park, Salt Lake

IEEE COMSOC Kolkata Chapter is extremely happy to sign a MEMORANDUM OF UNDERSTANDING with WEST BENGAL ELECTRONICS INDUSTRY DEVELOPMENT CORPORATION LIMITED (WEBEL), Govt. of West Bengal aimed to enhance the linkage between industry and academia with special focus on enhancing undergraduate and graduate research and development on emerging technologies. This is a momentous occasion for IEEE COMSOC Kolkata Chapter and all members are highly motivated to

achieve the objective of the MoU.



4. Webinar on 'Adopting AI in industry' on Engineers Day Celebration at Narula Institute of Technology, Kolkata



Date: 15th September 2024

Time: 5:00 PM

Venue: Narula Institute of Technology, Kolkata

IEEE COMSOC, Kolkata Chapter associated with ECE Department, Narula Institute of Technology in organizing a webinar on 'Adopting AI in industry' along with IETE Student Forum on 15th September, 2024 at 5:00 p.m. in online mode.

Event Overview:

The Department of Electronics and Communications Engineering hosted an insightful webinar on "Adopting AI in Industry," which saw the participation of 50 students. The session was led by Mr. Subhamoy Chakraborti, the Chief Technology Officer at ABP Pvt Ltd.

Webinar Highlights: Prof. Kaushik Sarkar, Head of the ECE Department, emphasized the significance of AI in today's industry and the relevance of the webinar. Dr. Sangita Roy, Associate Professor, introduced the speaker and set the stage for the session.

Dr. Sandhya Pattanayak, Associate Professor, extended a warm welcome to Mr. Chakraborti, highlighting the importance of the webinar for the students.

Keynote Address:

Mr. Subhamoy Chakraborti delivered an in-depth discussion on the adoption of AI in various industries. His presentation covered practical insights into how AI can be leveraged to drive innovation and efficiency within the industry.

Following the keynote address, a lively Q&A session allowed students to engage with Mr. Chakraborti, asking questions and gaining further insights into AI applications.

Dr. Roy proposed a formal vote of thanks, acknowledging the speaker's valuable contribution and the enthusiastic participation of the students. The event concluded on a high note, with participants expressing eagerness to explore future opportunities in the field of AI.



5. Hack-O-NiT: Students Hackathon



Date: 14th -15th May 2024

Venue: Narula Institute of Technology, Kolkata

The first ever overnight Hackathon by Narula Institute of Technology in collaboration with IEEE COMSOC, Kolkata Section was held on 14th – 15th May 2024 with huge participation from the students

and delegates.

Objective: Solve Problem statements spanning across diverse domains such as Health Care, Automation & IoT, Cloud Computing, Knowledge Management, New Gen Games, Infrastructure, Telecom, and Open Innovation,

Outcome: Some of the remarkable products developed in this Hackathon are Various Health Care solutions like Identification of Brain Cancer from Images, AI based Diabetic detection Online Learning management systems, Robots for Mining Application etc.

Description

The inaugural edition of Hack-O-NiT, the first ever overnight Hackathon by Narula Institute of Technology sponsored by IEEE COMSOC Kolkata Section, was held on 14- 15 May 2024, marking the beginning of a new era in technological innovation. The event was graced by dignitaries including Mr. Soujit Das, Senior Manager- Incubation & Portfolio Management, IIM – Calcutta,

Prof Dr N.R. Bandyopadhyay, Professor - Dr. M.N. Dastur School of Materials Science IEST, Shibpur, Former Chairman, Metallurgical & Materials Engineering Division Board, The Institution of Engineers (India) Council Member, Materials Research Society of India, Mr. Prateek Chaudhary, FCA, DISA (ICAI) Chairman, Council of Start Ups Merchants' Chamber of Commerce & Industry, Mr. Abhay Agarwal, Chartered Accountant, Mr. Arijit Das, Co-Founder and Director at Aeonix Research & Innovations LLP, Mr. Sambhu Nath Surai, ITA (Information Technology Analyst) in TCS and Co-founder of ATX Extension, Robotics Technology.

It witnessed enthusiastic participation from budding technocrats. With problem statements spanning across diverse domains such as Health Care, Automation & IoT, Cloud Computing, Knowledge Management, New Gen Games, Infrastructure, Telecom, and Open Innovation, the event provided a fertile ground for innovation and collaboration in a realistic environment.

The Hack- O- NiT covered both hardware and software Tracks. Some of the remarkable products developed in this Hackathon are Various Health Care solutions like Identification of Brain Cancer from Images, AI based Diabetic detection Online Learning management systems, Robots for Mining Application etc.

More than 90 teams submitted their Ideas and Prototypes. Out of which 70 teams were screened in the second round and total 18 teams competed in the Grand Finale. Student Teams from different college across West Bengal like Adamas University, Techno Main Salt Lake, Government College of engineering and Textile Technology, Serampore, Techno International, New Town, JIS College of Engineering,



Gurunanak Institute of Technology, Asansol Engineering College and Narula Institute of Technology registered for the event.

No. of participants: 360

FB link:

<https://www.facebook.com/nitnarula/posts/pfbid0Sp9XeYVy68BvUL1ZWk564msFQqcDfN3eDAMWzCZxt28RKHmKE5hEn9UC1CgapHL2l>

6. TECH TALK 3.0: IEEE COMSOC Kolkata Chapter flagship technical session



Date: 21st September 2024

Mode: Virtual

Partner: IEEE COMSOC NIT Silchar Student Branch

The third edition of IEEE COMSOC Kolkata Chapter's flagship technical session TECH TALK 3.0 was held on 21st September 2024 at 10AM through virtual platform. The theme of the talk is 'Generative AI and its impact on the Information & Data Services Industry' which was delivered by eminent speakers from the industry. The event is partnered with IEEE COMSOC NIT Silchar Student Branch.

The abstract of the talk is presented below: The information services industry, comprising financial services, credit bureaus, tax, law etc. companies, deal with huge amounts of data sourced from multiple channels before curating them to the customer's needs. A large part of their technology initiatives, especially from the CDO organization, is focused on ensuring data quality and upstream

detection & elimination of fraudulent data so that their Analysts can work on pristine data. Generative AI has opened up new possibilities that can significantly improve the quality of data, enable self service capabilities for Analysts and Data Scientists thereby creating efficiencies and synergies to improve existing offerings and create unique products & services.

Speakers:

Mr. Manish Mandal, Sr. Enterprise Architect, TCS

Mr. Indranil Mukherjee, Solution Architect, TCS



7. CXO Convention with IEEE COMSOC & PTA



Date: 1st December 2024
 Venue: Hotel Hindustan International
 Partner: Philanthropic Technical Association (PTA) & Learning Network

IEEE COMSOC Kolkata Chapter proudly organized a CXO Convention in collaboration with Philanthropic Technical Association (PTA) & Learning Network on 1st December 2024 on December at The HHI in The City of Joy Kolkata.

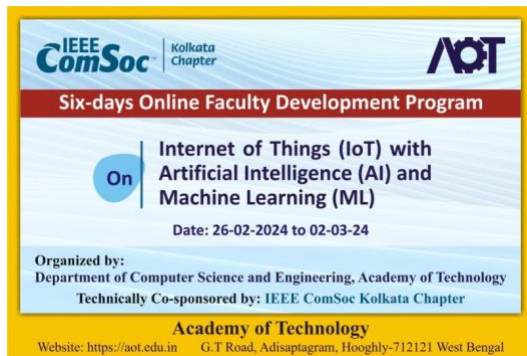
The CXOs of Kolkata beat the December chill, to discuss, all about AI - Top minds, coming from

diverse backgrounds - CEOs, CHROs, CMOs, CFOs, Strategy Officers, CIOs, CDOs and IT Heads. Thought-leadership came from practicing CFOs and CEOs on how they have leveraged AI - practical real-life use cases and experiences. The core technologists also discussed on what's running beneath the hood, as well the critical issues of Security & Privacy. But the icing on the cake was the intense engagement and the 360deg view - learning from each other cross-functional.

This premier event brought together top minds—CIOs, CHROs, CFOs, CMOs, and CSOs—to exchange thought-provoking insights. Expect not just stories of success but also challenges, learnings, and bold visions for the future.



8. Six Day online Faculty Development Program on IoT with AI and ML



Date: 28th May 2023
 Venue: AOT campus

IEEE COMSOC Kolkata Chapter partnered as technical sponsor with Academy of Technology, Hooghly, West Bengal in organizing a Six Day online Faculty Development Program on IoT with AI and ML from 26 February to 03rd March 2024 at the AOT campus. There were eminent experts from both academia and industry who have taken sessions on broad areas of IOTs with AI and ML. The event

was organized by department of Computer Science and Engineering Technology.



Mr. Subhamoy Chakraborti, Dr. Pallab Ganguly, Dr. Prof. Amlan Chakrabarti, and Dr. Sukumar Nandi have represented IEEE COMSOC Kolkata Chapter and delivered invaluable insights on the theme of the FDP.

The following experts have shared their knowledge.

Dr. Prof. Amlan Chakrabarti, Professor and Director, AKCSIT, University of Calcutta, Academic Chair, IEEE COMSOC, Kolkata Chapter.

Dr. Sukumar Nandi, Senior Professor, CSE Dept. IIT, Guwahati.

Dr. Dr. Pallab Ganguly, Industry Chairman, IEEE COMSOC Kolkata. Chapter.

Mr. Subhamoy Chakraborti, CTO@ABP, Chairman, IEEE COMSOC, Kolkata Chapter.

Dr. Subh Dasgupta, Scientist, University of California, San Diego.

Dr. Subh B. Bhattacharya, Principal Research Scientist, Ericsson.

Dr. Krishnendu Guha, Assistant Professor, University College Cork (UCC), Ireland.

Dr. Tanushyam Chattopadhyay, Head, Industrial AI, Adani Group.

Dr. Jyoti Prakash S., Associate Professor, NIT, Patna

Dr. Amitava Nag, Professor and HoD, CSE Dept, CITK, ASSAM

Dr. Sangram Ray, Associate Professor, HoD, CSE Dept, NIT Sikkim

Dr. Soumya Sen, Assistant Professor at University of Calcutta

Dr. Arup Kumar Pal, Associate Professor, IIT(ISM), Dhanbad

Dr. Jitesh Pradhan, Assistant Professor, NIT Jamshedpur

Dr. Dr. Damodar Reddy Edla, Associate Professor, CSE Dept, NIT, Goa.

Dr. SK Hafizul Islam. Hafizul Islam, Assistant Professor, IIIT Kalyani

Dr. Nabajyoti Mazumdar Majumdar, Assistant Professor, IIIT, Allahabad

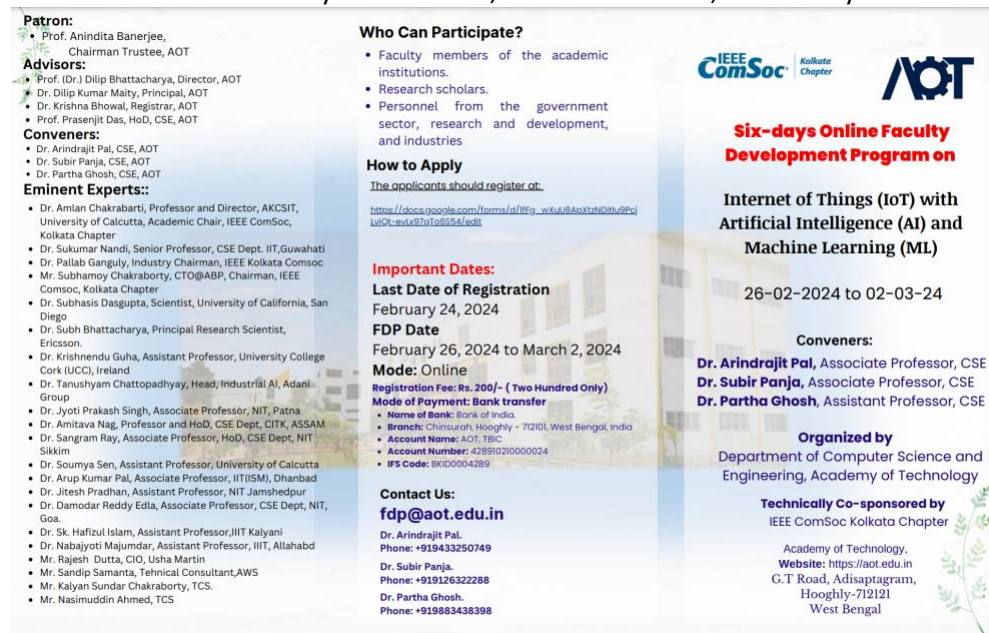
Mr. Rajesh Dutta, CIO, Usha Martin

Mr. Sandip Samanta, Technical Consultant, AWS

Mr. Kalyan Chakravorty, TCS.

Mr. Nasim Ahmed, Senior Scientist, TCS

The event was attended by the students, research scholars, and faculty members of AOT.



Patron:

- Prof. Anindita Banerjee, Chairman Trustee, AOT

Advisors:

- Prof. (Dr.) Dilip Bhattacharya, Director, AOT
- Dr. Dilip Kumar Maity, Principal, AOT
- Dr. Krishna Bhowal, Registrar, AOT
- Prof. Prasenjit Das, HoD, CSE, AOT

Conveners:

- Dr. Arindrajit Pal, CSE, AOT
- Dr. Subir Panja, CSE, AOT
- Dr. Partha Ghosh, CSE, AOT

Eminent Experts::

- Dr. Amlan Chakrabarti, Professor and Director, AKCSIT, University of Calcutta, Academic Chair, IEEE ComSoc, Kolkata Chapter
- Dr. Sukumar Nandi, Senior Professor, CSE Dept. IIT, Guwahati
- Dr. Pallab Ganguly, Industry Chairman, IEEE Kolkata Comsoc
- Mr. Subhamoy Chakraborty, CTO@ABP, Chairman, IEEE Comsoc, Kolkata Chapter
- Dr. Subhasis Dasgupta, Scientist, University of California, San Diego
- Dr. Subh Bhattacharya, Principal Research Scientist, Ericsson.
- Dr. Krishnendu Guha, Assistant Professor, University College Cork (UCC), Ireland
- Dr. Tanushyam Chattopadhyay, Head, Industrial AI, Adani Group
- Dr. Jyoti Prakash Singh, Associate Professor, NIT, Patna
- Dr. Amitava Nag, Professor and HoD, CSE Dept, CITK, ASSAM
- Dr. Sangram Ray, Associate Professor, HoD, CSE Dept, NIT Sikkim
- Dr. Soumya Sen, Assistant Professor, University of Calcutta
- Dr. Arup Kumar Pal, Associate Professor, IIT(ISM), Dhanbad
- Dr. Jitesh Pradhan, Assistant Professor, NIT Jamshedpur
- Dr. Damodar Reddy Edla, Associate Professor, CSE Dept, NIT, Goa.
- Dr. Sk. Hafizul Islam, Assistant Professor, IIIT Kalyani
- Dr. Nabajyoti Majumdar, Assistant Professor, IIIT, Allahabad
- Mr. Rajesh Dutta, CIO, Usha Martin
- Mr. Sandip Samanta, Technical Consultant, AWS
- Mr. Kalyan Sundar Chakravorty, TCS.
- Mr. Nasimuddin Ahmed, TCS

Who Can Participate?

- Faculty members of the academic institutions.
- Research scholars.
- Personnel from the government sector, research and development, and industries

How to Apply
The applicants should register at:
https://docs.google.com/forms/d/1fFg_wvuUBa0xtRt0t0u@PjLwCt-evt497of1o6854/edit

Important Dates:
Last Date of Registration
February 24, 2024
FDP Date
February 26, 2024 to March 2, 2024
Mode: Online
Registration Fee: Rs. 200/- (Two Hundred Only)
Mode of Payment: Bank transfer

- Name of Bank: Bank of India.
- Branch: Chinsurah, Hooghly - 712101, West Bengal, India
- Account Name: AOT, TBIC
- Account Number: 428910210000024
- IFS Code: BKID0004289

Contact Us:
fdp@aot.edu.in
Dr. Arindrajit Pal.
Phone: +919433250749
Dr. Subir Panja.
Phone: +919126322288
Dr. Partha Ghosh.
Phone: +919883438398

IEEE ComSoc Kolkata Chapter **AOT**

Six-days Online Faculty Development Program on

Internet of Things (IoT) with Artificial Intelligence (AI) and Machine Learning (ML)

26-02-2024 to 02-03-24

Conveners:
Dr. Arindrajit Pal, Associate Professor, CSE
Dr. Subir Panja, Associate Professor, CSE
Dr. Partha Ghosh, Assistant Professor, CSE

Organized by
Department of Computer Science and Engineering, Academy of Technology

Technically Co-sponsored by
IEEE ComSoc Kolkata Chapter
Academy of Technology,
Website: <https://aot.edu.in>
G.T Road, Adisaptagram,
Hooghly-712121
West Bengal



9. Faculty and Students Mentoring Workshop by industry expert



Date: 25th September 2024
Venue: RCCIT, Kolkata
Supported by: Philanthropic Technical Association

Partner: RCC Institute of Information Technology, Kolkata

IEEE COMSOC Kolkata Chapter, supported by Philanthropic Technical Association, has organized a Faculty and Student mentoring workshop on 25th September 2024 at the RCC Institute of Information Technology. CIOs and industry leaders have visited the college campus and shared their views on topics like Security, Infra, Cloud, AI, SAP etc. to make the participants aware about the latest and greatest in tech industry.

In the landscape of super-fast advancement of technologies, it is very important that the mentors and learners are well informed and trained to latest and emerging technologies for future readiness and sustainability. Industry also felt it extremely significant to produce right human skilled resources who are equipped with right skill sets to innovate and build the next big technologies and provide solutions to the pertinent problems in the society.

We are pleased to present few Moments during "Faculty & Student Mentoring Program" at RCC Institute of Information Technology in collaboration with IEEE ComSoc Kolkata chapter



10. Cloud DNA Masterclass



Date: 29th November 2024
Venue: RAAS Manch-2 Rajkutir, Kolkata

IEEE COMSOC Kolkata Chapter joined forces with Cloud4C and PTA for an extraordinary CIO Masterclass on Cloud, Digital and Analytics. Mr. Sourav Das and Dr. Pallab Ganguly kicked off the event with a dynamic session launch, setting the stage for a day of insightful discussions.

Key Highlights:

Pankaj Badaya delved into the evolution of cloud infrastructure, covering:
 - Cloud transformation roadmaps



- Critical adoption decision frameworks
 - Modernizing legacy systems
 - Designing secure multi-cloud architectures
- Sunil Kumar Raja Pudota (CEO of AutomationsX) "The Intelligent Cloud: Revolutionizing Business with Data & AI," exploring:
- Cutting-edge data architecture design
 - Advanced analytics and AI capabilities
 - Cloud-native AI service leveraging
 - Scalable data management strategies



The event has witnessed several enriching discussions on cloud technology, convergence and AI enabled Cloud services emerging to address various issues in the industry.

11. International Conference on Data Science and Communication (ICTDSC - 2024)



Date: 21st – 22nd November 2024
 Venue: Siliguri Institute of Technology, Siliguri

IEEE COMSOC Kolkata Chapter partnered with Siliguri Institute of Technology, Siliguri in organizing International Conference on Data Science and Communication (ICTDSC - 2024) on 21st and 22nd November, 2024.

Prof. Amlan Chakraborty and Prof.

Debasish De represented IEEE COMSOC Kolkata Chapter as Keynote speakers in the conference.

About The Conference

International Conference on Data Science and Communication (ICTDSC - 2024) was held in Siliguri Institute of Technology, Siliguri, Darjeeling, West Bengal, India on 21st and 22nd November, 2024. In the current era dominated by data-driven advancements, the influence of human intervention is diminishing, thanks to various Artificial Intelligence technologies. The theme of the ICTDsC-2024 conference aligns perfectly with this contemporary landscape. This conference serves as a premier international platform for the exchange and dissemination of original research findings and innovative ideas. It focuses on both the theoretical underpinnings and practical applications in the fields of data science and communication technologies. The event aimed to bring together academics, researchers, engineers, and industry professionals, fostering collaborative efforts to shape the future. The conference agenda encompasses a diverse array of sessions, featuring distinguished lectures, paper presentations, and poster sessions. Additionally, attendees can benefit from insights shared by prominent keynote speakers and participate in industry-focused workshops, enhancing their understanding of the evolving landscape in data science and communication technologies.

Objective of the Conference



-> The focus of the ICTDsC-2024 is on bringing Science, Technology, and Management learning zones together on a single platform.

-> This conference's major goal is to present the original research results, new ideas focusing on both theory and practice from multidisciplinary domains.

-> Participants will also get the opportunity to meet the specialists and the eminent delegates to assess their works and learn about the modern tools.

[Keynote Speakers]



Prof. Rajkumar Buyya

Professor of Computer Science and Software Engineering; and Director of the Cloud Computing and Distributed Systems (CLOUDS) Laboratory at the University of Melbourne, Australia.



Prof. Celia Shahnaz

Professor, Bangladesh University of Engineering and Technology, Bangladesh.



Prof. Amlan Chakrabarti

Director, A.K. Choudhury School of Information Technology, University of Calcutta, India



Prof. Chow Yen Desmond Sim

Feng Chia University, Department of Electrical Engineering, Taiwan



Prof. Jyotsna Kumar Mondal

Professor of Computer Science & Engineering & Former Dean, Faculty of Engineering, Technology & Management, Former Director IQAC, Kalyani University, West Bengal



Prof. Debashis De

Professor, Department of Computer Science & Engineering, MAKAUT, West Bengal

12. IEEE COMSOC Kolkata Chapter sponsored the Robotics module of Tecnoesis-24, the annual technical fest of NIT Silchar

Date: 07th – 10th November 2024

Venue: Gymkhana Park, NIT Silchar

IEEE COMSOC Kolkata Chapter and IEEE COMSOC NIT Silchar SBC associated as technical sponsors of the robotics events at Tecnoesis 2024, where participants showcased their engineering and coding skills by designing autonomous robots to battle in an arena, to solve mazes, to score in soccers and many more. The event was organized at NIT Silchar from 07th – 10th November 2024 where participants from various other institutions also took part in various technical modules.



ROBOWAR Module:

These machines relied on heavy-duty motors, robust chassis, and specialized weaponry for offense and defense. The challenge emphasized the structural design, with teams focusing on creating durable yet agile robots that could withstand powerful impacts and maneuver effectively, where success was determined by the mechanical strength, strategic design, and the ability to outlast and overpower opponents in this thrilling contest of innovation and engineering prowess.

Event Overview

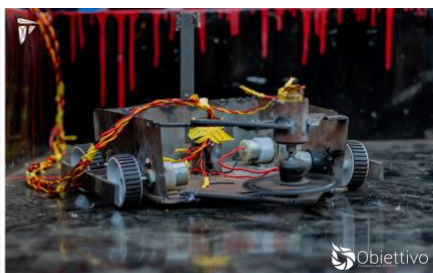
Objective: Build combat robots equipped with heavy motors and weaponry to battle in an arena. The goal is to outmaneuver and disable the opponent's robot using strategic design and mechanical strength.

Venue: Gymkhana Park, NIT Silchar, Tecnoesis 2024.

Participants: Around 30 teams of 5-6 members.

Robowar at Tecnoesis 2024 showcased groundbreaking designs, strategic thinking, and engineering excellence, pushing participants to innovate and collaborate. The event inspired the next generation of robotic combat engineers, aligning seamlessly with the goals of Tecnoesis 2024. The organizers thanked IEEE COMSOC Kolkata Chapter and IEEE COMSOC NIT Silchar SBC for their support and collaborations.

Some glimpses:



Event: Race Circuit

Introduction: "Race Circuit" was a flagship event at Tecnoesis 2024, challenging participants to design and race line-follower robots. These robots used IR sensors to autonomously navigate tracks, testing speed and precision.

Event Overview:

- **Objective:** Build robots to follow a black line on varying tracks.
- **Venue:** ECE DEPT GROUND FLOOR ROOM 9A, Tecnoesis 2024.
- **Participants:** Over 26 teams of 2-4 members.

Event Structure:

1. **Round1:** Time battle; fastest bots advanced.
2. **Round2:** Another time battle on a tougher track.
3. **Round3:** Final time battle on the most complex track.

Highlights:

- Teams implemented advanced algorithms like PID control.
- Team NaviTron set a record for speed and precision.
- Enthusiastic spectators added to the lively atmosphere.

Challenges:

- Sensor calibration issues.
- Maintaining speed without errors.
- Handling track deviations.

Conclusion: Race Circuit successfully showcased innovation and collaboration, inspiring participants to explore robotics and automation, aligning perfectly with Tecnoesis 2024's goals.

Some Glimpses:



Event: Bluetooth Blitz

Event Overview: Bluetooth Blitz was a dynamic RC car racing competition held as part of the Robotron segment of Tecnoesis. This event showcased the technical prowess and creativity of participants as they navigated their remote-controlled cars through a challenging track using Bluetooth technology for control. The competition aimed to encourage innovation and competitive spirit among tech enthusiasts.

Venue: In front of New Gallery, NIT Silchar, Tecnoesis 2024.



Participants: Bluetooth Blitz had a total of 40 teams, each consisting of 1 - 4 members. It had the highest number of participants among all the events under the Robotron module of Tecnoesis,2024. .

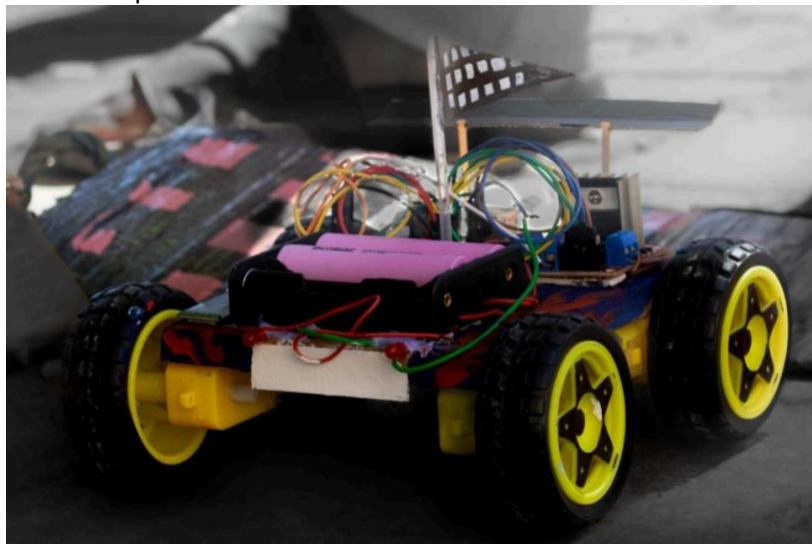
Achievements of the Event:

- Bluetooth Blitz was the highest-participated event in Robotron, drawing an impressive number of entries from students and hobbyists across various institutions.
- The event successfully highlighted the seamless integration of engineering skills and technology, setting a benchmark for future tech-based competitions.

Event Conclusion: The event concluded with an exciting final race that kept the audience on the edge of their seats. Winners were awarded medals, certificates, and cash prizes, while all participants received participation certificates. Feedback from participants and spectators was overwhelmingly positive, with many praising the event’s organization and the challenging yet enjoyable experience.

Bluetooth Blitz was a resounding success, leaving a lasting impression on everyone involved and setting a high standard for future events in Robotron and Tecnoesis.

Some Glimpses:



Event: Robo-Soccer

Introduction:

Robo Soccer is an electrifying fusion of robotics and sportsmanship, where engineering meets the thrill of football. Two teams of robots, meticulously designed and programmed, face off on a custom-made soccer field. The game challenges participants to blend creativity, coding, and strategy as their autonomous or remote-controlled bots battle for victory.

Event Overview:

- Objective: To design and build, robots capable of scoring the most goals within a set timeframe while adhering to the rules of the game.
- Venue: Gymkhana Park
- Participants: Over 25 teams of 5-6 members

Challenges:-

1. Design and Build

- Creating a robot that is durable, agile, and optimized for soccer-like movements (e.g., dribbling,



kicking, and blocking).

- Managing weight, stability, and speed while ensuring functionality.

2. Ball Handling

- Designing mechanisms for gripping, pushing, or shooting the ball effectively.
- Avoiding fouls like trapping the ball for extended periods.

3. Navigation and Obstacle Avoidance

- Programming robots to navigate the field while avoiding collisions with opponents and boundaries.
- Ensuring efficient path planning for both offensive and defensive maneuvers.

4. Team Coordination

- Synchronizing multiple robots for passing, defending, and scoring.
- Balancing roles between offensive and defensive robots.

Robo Soccer at Tecnoesis 2024 celebrated the spirit of innovation and the drive to achieve greatness in the ever-evolving world of robotics. The event not only tested the technical skills of the teams but also highlighted their ability to adapt and strategize under pressure. Whether it's the excitement of the qualifiers, the intensity of the finals, or the camaraderie among participants, Robo Soccer offered an unforgettable experience for everyone involved.



13. HUMANxAI 2024 Conclave: Redefining HR and IT in the Age of AI



Date: 07th – 10th November 2024

Venue: Peerless Hotel, Kolkata

Partner: Philanthropic Technical Association (PTA) India

IEEE COMSOC Kolkata Chapter proudly collaborate with Philanthropic Technical Association (PTA) India in organizing the HUMANxAI 2024 Conclave, a significant event exploring the intersection of artificial intelligence and human resources, was hosted by iLEAD in collaboration with the HR Learning Network-HRLN and the Integrated Institute of Development & Research (IIDR) in Kolkata.

This event offers a unique platform to explore how AI can enhance human potential, streamline operations, and drive organizational success. Engage with industry experts, discover new insights, and network with peers who are leading the AI transformation in their organizations. Philanthropic Technological Association (PTA) was proud to present this in collaboration with IEEE Communication Society, both being poised towards positively impacting the eco-system. The convention was graced by the senior most bureaucrats,



eminent industrialists, researchers, academia on various plenary, keynote and panel discussions on the important interfaces of human and AI.

Key Focus:

- **AI's Impact on Industries:** The conclave delved into how AI is transforming various sectors, from manufacturing and healthcare to finance and education.
- **Sustainable Business Practices:** Discussions centered on how businesses can leverage AI while ensuring ethical and sustainable practices, considering environmental and social impacts.
- **The Human Element in HR:** A core theme was the importance of human connection and emotional intelligence in the workplace, even as AI automates certain tasks.

Highlights:

- **Thought-Provoking Talks:** Industry leaders and experts shared insightful presentations on the future of work, the role of AI in HR, and the challenges and opportunities presented by this evolving technology.
- **Launch of Catharsis:** A key highlight was the unveiling of Catharsis, an innovative platform designed to enhance HR learning and development through AI-powered tools and personalized experiences.
- **Awards Ceremony:** The event recognized outstanding contributions in the field of HR with an awards ceremony honoring individuals and organizations.
- **Creative Fashion Show:** A unique element of the conclave was a lively fashion show that showcased the intersection of creativity, innovation, and technology.



14. Vi Business Confluence

Date: 20th December 2024
Time: 6:00 PM
Venue: Hyatt Regency, Kolkata

IEEE COMSOC Kolkata Chapter partnered with Philanthropic Technical Association for an august gathering of senior IT leaders, at the **Vi Business Confluence**. The masterclass was appreciated by one and every attendee as the format was smart, the discussions were engaging, and agenda-points were thought-provoking. Participation of senior IT Leaders like Saradindu Paul, Atanu Pramanic, Biswajit Datta,



Amit Khan, Kripadyuti Sarkar and others made the discussion more engrossing.

Many thanks to Anupriya Chowdhary - MYStory Coach the award-winning story teller for such nicely curating the program, and Vi Business Confluence knowledge partners with special thanks to Saikat Paul & Biswarup Bhattacharya.



Chairman Sourav Das has delivered the Vote of Thanks to all participants, support and knowledge partners. The PTA shouted thanks to the IT leaders Dr. Pallab Ganguly, Subhamoy Chakraborty, Subhakar Rudra, Subrata Roy, Gaurav Sharma, Prakash Tripathi, Gargi Bhattacharjee, Prateek Agarwal and many others for their support and collaboration.

Mr. Subhamoy Chakraborty, Chairman, IEEE COMSOC Kolkata Chapter, Dr. Pallab Ganguly, Industry Chair representing IEEE COMSOC Kolkata Chapter in the Vi Business Confluence.

15. NITS HACKS 7.0 - a national level software hackathon at NIT Silchar



Date: 8th – 10th November 2024

Venue: NIT Silchar

NITS HACKS 7.0, the annual flagship hackathon of NIT Silchar, was organized by Google Developer Student Clubs (GDSC) and Coding Club, in association with the Institution Innovation Council (IIC) of NIT Silchar and IEEE COMSOC NIT Silchar SBC. IEEE COMSOC Kolkata Chapter was associated as technical partner to the event. This three-day hackathon took place from November 8th to 10th, 2024 and brought together innovative minds from institutions across India.

The event was conducted in a hybrid mode, allowing both on-campus and online participation to ensure accessibility for students nationwide. Participants worked collaboratively to develop impactful solutions to diverse problem statements, showcasing their creativity, technical expertise, and teamwork. NITS HACKS 7.0 focused on fostering innovation and inspiring participants to address real-world challenges through technology. The hackathon provided an engaging platform for students to ideate, innovate, and execute their ideas while building connections and learning from peers.

Renowned as Northeast India's largest and most prestigious hackathon, NITS HACKS 7.0 upheld its legacy of promoting technical excellence and encouraging the development of groundbreaking solutions, cementing its place as a premier event for budding technologists and innovators.



2. OBJECTIVES

I. Promote Innovation and Practical Application

NITS HACKS 7.0 aimed to inspire participants to think creatively and develop innovative solutions for real-world challenges. The hackathon encouraged a problem-solving mindset, enabling participants to transform their ideas into impactful projects. By offering a structured yet flexible environment, it bridged the gap between theoretical knowledge and practical implementation, empowering participants to apply concepts learned in classrooms. This hands-on approach not only enhanced their technical proficiency but also instilled a sense of confidence in tackling complex challenges, fostering a spirit of innovation and technological advancement.

II. Foster Collaboration and Skill Development

The event served as a melting pot for tech enthusiasts from diverse institutions and backgrounds, promoting interdisciplinary collaboration. Participants worked in teams to brainstorm ideas, design solutions, and implement projects, cultivating essential teamwork, communication, and leadership skills. The immersive experience also strengthened technical capabilities, providing a deep dive into coding, prototyping, and design. Additionally, participants developed soft skills like task delegation, conflict resolution, and effective presentation. By working together, participants broadened their perspectives, learning from peers and mentors while enhancing their ability to work cohesively in a dynamic, team-oriented environment.

III. Facilitate Learning and Networking

NITS HACKS 7.0 offered participants exposure to emerging technologies, tools, and platforms, equipping them with knowledge aligned with industry trends. The hackathon created opportunities for meaningful interactions between participants and industry professionals, fostering mentorship and collaboration. Networking sessions and team-based challenges connected participants with like-minded peers and seasoned experts, enabling the exchange of ideas and experiences. These connections were instrumental in opening avenues for career growth, internships, and future collaborations, making the event a transformative experience for aspiring technologists. By combining learning with networking, the hackathon nurtured both technical skills and professional development.

3. SOFTWARE TRACK

The Software Track provided participants with the freedom to choose their preferred technology stack, fostering creativity and enabling diverse approaches to problem-solving. With a focus on both mobile and web development, participants built versatile and user-friendly applications tailored to modern digital needs. The track emphasized practical problem-solving, encouraging participants to address real-world challenges through innovative and impactful projects. The time-bound format simulated real-world constraints, enhancing participants' time management and prioritization skills. With a prize pool of **INR 1,00,000**, the track offered significant rewards, motivating participants to push the boundaries of their technical capabilities.

4. THEMES AND PROBLEM STATEMENTS:

4.1 Theme 1: Artificial Intelligence



- 4.2 Theme 2: Blockchain and Web3
- 4.3 Theme 3: Open Innovation

6. PARTICIPATING STATS

The Software track saw an impressive turnout of **350 teams** and over **1,500 participants**. This track attracted participants passionate about creating innovative software solutions, with teams showcasing a wide range of technical expertise and creativity in tackling real-world challenges. The high level of participation underscores the growing interest in software development and problem-solving among participants.

Some glimpses of the event:



Dr. Wasim Arif, Secretary with the delegates and participants of the hackathon.



16. International Conference on Advanced Innovations in Engineering, Science and Technology (Aiest-2024)



Date: 20th December 2024
Time: 6:00 PM
Venue: Hyatt Regency, Kolkata



The **International Conference on Advanced Innovations in Engineering, Science and Technology (Aiest-2024)** was organized in Magra, West Bengal, INDIA on **October 25–26, 2024**. IEEE COMSOC Kolkata Chapter

associated as technical partner in the conference. This conference is organized by the Abacus **Institute of Engineering & Management, Hooghly, India**. The conference is offering a huge number of invited researchers from renowned speakers all over the world. The best paper awards will be given to the papers judged to make the most significant contribution to the conference.

The "**International Conference on Advanced Innovations in Engineering, Science and Technology (Aiest-2024)**" is aimed at providing a platform to researchers, scholars, engineers, scientists and industrial professionals to gather knowledge and bridge the gap between academia and its industrial aspects, around the world. The conference will be an immersive experience primarily focusing on the latest advancements and researchers on various fields of engineering, including but not limited to Mechanical Engineering, Civil Engineering, Electrical Engineering, Electronics and Communications Engineering, Computer Science Engineering, Information Technology and other interdisciplinary areas. The conference will cater to the transitional practices where industrial knowledge would convey academia regarding real-time scenarios and practical findings thus fostering collaboration and development of innovative solutions to counter contemporary challenges in engineering and technology. The conference's objective is to enable attendees to share information, concepts, and firsthand experiences, which will promote teamwork and the creation of creative solutions to today's pressing technical and technological problems. Keynote addresses by well-known authorities in the relevant field, oral presentations by researchers of their original work, panel discussions on new issues and trends, and networking opportunities to promote communication and cooperation among attendees are all planned for the conference.



17. Annual Seminar 2024 on Cybersecurity, Artificial Intelligence and Audit

ISACA
Kolkata Chapter

ANNUAL SEMINAR 2024
Cybersecurity, Artificial Intelligence and Audit
Organized by ISACA Kolkata Chapter

28th
December 2024
Saturday

10:30 AM
Event Inauguration and Lamp-lighting in the presence of
ADG & IGP (Cyber Crime) WB Police, IPS Hari Kishore Kusumakar

Hotel De Sovrani
GD-21, GD Block, Sector 1, Bidhannagar,
Kolkata, West Bengal - 700064

KEYNOTE SPEAKER
Mr. R Vittal Raj
Member on the RBI's Standing Committee for
Cybersecurity and IT Examination, ReBIT's Cybersecurity
Assessment Framework Study Group.
Topic: Hands-on Application of Artificial Intelligence

CHIEF GUEST
IPS Hari Kishore Kusumakar
ADG & IGP (Cyber Crime),
West Bengal Police
Topic: Use for Crypto Currency in
Cybercrime

3rd SPEAKER
Dr. Pallab Ganguly
Industry Chairman of IEEE COMSOC. With
over two decades at CESC Limited.
Topic: Challenges of the existing security
measures deployed in the smart grid
framework

4th SPEAKER
Mr. Nilangshu Majhi
Digital Forensic Investigator - ISOAH
Topic: Hands-On digital Forensics
Investigation using Cellebrite and Axion
tools

REGISTER NOW Limited Seats!

7 Hours
CPE
For members of ISACA, please note that ISACA
members must share their membership number
to avail CPE credits.

Participation fee: **Rs. 950/-**
Subject to First come
first served basis.

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IFSC - HDFC0005922
On successful payment, please send details of
payment to info@isacaindia.com along with
Name and ISACA ID.

Scan To Pay

Date: 28th December 2024

Time: 10:30 AM

Venue: Hotel De Sovrani, Kolkata

IEEE COMSOC Kolkata Chapter collaborated with ISACA, Kolkata Chapter in organizing the Annual Seminar 2024 on Cybersecurity, Artificial Intelligence and Audit on 28th December 2024 at the Hotel De Sovrani, Kolkata at 10:30 AM.

The Chief Guest of the event was Shri Hari Kishore Kusumakar, IPS, ADG and IGP (Cyber Crime), West Bengal Police. Shri Hari deliberated a very thought-provoking address on a very pertinent topic of Use of Crypto Currency in Cybercrime.

The keynote speaker Mr. R Vittal Raj, Member of the RBI's Standing Committee for Cybersecurity delivered an insightful talk on Hands-on Application of Artificial Intelligence.

Dr. Pallab Ganguly, Industry Chair, IEEE COMSOC Kolkata Chapter was invited as speaker and delivered a very enlightening talk on Challenges of the existing security measures in the smart grid framework. Another speaker,

Mr. Nilangshu Majhi, Digital Forensic investigator, ISOAH conducted a hands-on session on some digital forensic investigation tools. The event went extremely well with interesting question answer session wherein the participants interacted with the speakers. There were 100 members of ISACA present for the program.

18. IEEE COMSOC Panel at IEEE ANTS 2024, IIT Guwahati

Date: 16th December 2024

Venue: IIT Guwahati

IEEE ANTS is a premier IEEE conference on advanced networking and telecommunications topics. IEEE ANTS is financially and technically supported by the IEEE Communications Society. The distinguishing characteristic of IEEE ANTS is the promotion of an intense dialogue between academic and industry to bridge the gap between academic research, industry initiatives, and governmental policies. This is fostered through panel discussions, keynotes, invited talks, and industry exhibits, where academia is exposed to state-of-the-practice and results from trials and interoperability experiments. The industry, in turn, benefits from exposure to leading-edge research as well as an opportunity to communicate and collaborate with academic researchers regarding practical problems. This year the theme is "Ubiquitous networking for seamless connectivity". In addition to the myriads of topics mentioned in the list below, technical papers are invited which have special focus on enabling technologies for a ubiquitous digital connectivity.



IEEE COMSOC Kolkata Chapter actively participated in organizing a panel discussion in IEEE ANTS, 2024 which was held at IIT Guwahati from 14th – 15th December 2024.

The panel on “ In the evolution and standardization of secure smart cities, is AI, ML a miracle or a menace” was conducted on 16 December. Eminent Panelist including Gaurav Darbari, Imperial Auto, Col Alok Shankar Pandey, DFCCIL, Prof. Ratnajit Bhattacharya, IIT, Guwahati, Prof. Subhankar Dhar, Professor, San Jose State Univ, USA and Mr. Subhamoy Chakraborti, Chairman, IEEE COMSOC, Kolkata and CTO, ABP attended the session and shared their views and insights on the subject. Dr. Pallab Ganguly, Industry Chair, Kolkata Chapter have attended the panel discussion as a moderator.



Dr. Pallab Ganguly, Industry Chair represented IEEE COMSOC Kolkata Chapter as a Moderator in the panel discussion and Mr. Subhamoy Chakraborti, Chairman, IEEE COMSOC, Kolkata represented as an eminent speaker in the Panel discussion.

19. IEEE CALCON, 2024



Industry Session: **11th Jan 2025, 10AM**



Plenary talk

5G and Beyond



Abir Biswas
General Manager & Head of
Kolkata Location
Ericsson Cloud Services

Panel discussion: Impact of AI in Academia and Industry



Moderator
Dr. Pallab Ganguly
Industry Chair
IEEE Calcon 2024
CISO Generation, CESC



Mr. Subhamoy Chakraborti
CTO, ABP Pvt Ltd
Industry Chair, IEEE Kolkata
Section



Prof. Amlan Chakraborti
Professor & Director
A.K. Choudhury School of IT, CU
Adj. Prof. IIT Delhi



Mr. Partha Sengupta
Head of ITC IT Shared
Services



Mr. Sourav Das
Group CDO, Rupa & Co.



Dr. Arindam Sarkar
HOD, CSE
Ramakrishna Mission
Vidyamandira, Belur Math



Mr. Srimanta Kundu
Ericsson

Sponsored by:



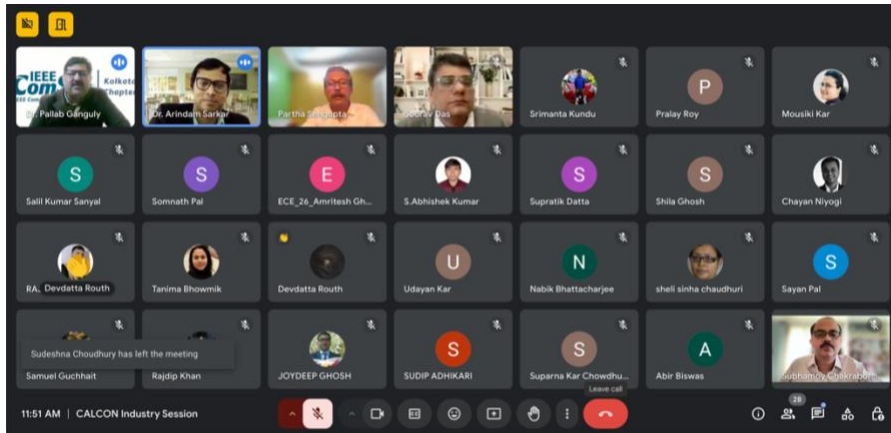
Join via Google Meet: meet.google.com/rjz-bxjn-ejn

The IEEE Kolkata Section organized its flagship CALCON 2024 on December 14-15, 2024. The prime objective of CALCON 2024 is to provide a platform for researchers, engineers, academicians as well as industrial professionals from all over the country and outside to present their research results and development activities in various branches of Engineering, making networking for IEEE. IEEE CALCON also provides a platform for



researchers, engineers, academicians as well as industrial professionals from all over the country and outside to present their research results and development activities in various branches of Engineering, making networking for IEEE.

CALCON aimed for highest quality research papers and all papers accepted were following IEEE standard review processes and conference publishing guidelines. Accepted and presented papers only be published in CALCON proceedings and will be submitted for inclusion to IEEE Xplore. Dr. Pallab Ganguly, Industry Chair, CALCON, 2024 was entrusted to arrange for sponsorship and an Industry Panel for CALCON, 2024. Ericsson was the prime sponsor for the Conference.



Abir Biswas from Ericsson delivered the plenary talk on “5G AND BEYOND” followed by a panel discussion “Impact On AI in Academia and Industry “ attended by eminent Panelist IEEE Kolkata Section Industry Chair and CTO, ABP, Mr. Subhamoy Chakrabarti, Prof. Amlan Chakrabarti and CDIO, Rupa, Mr. Sourav Das along

with Mr. Partha Sengupta, Sr VP, ITC SS, Prof. Arindam Sarkar, Ramkrishna Mission Vidyamandir, Mr. Srimanta Kundu, Ericsson moderated by Dr. Pallab Ganguly Industry chair, CALCON & CISO Gen, CESC.



Thank
you

