



IEEE India Council Newsletter

Annual

IEEE INDIA COUNCIL

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Dr. K.Gopalan Nair

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**Happy
New Year
from IEEE**





IEEE INDIA
COUNCIL



Happy New Year



WISHING YOU AND YOUR FAMILY A
HEALTHY AND PROSPEROUS NEW YEAR 2025.

Warm Regards,
Prof. Debabrata Das
Chairman, IEEE India Council 2024
Director, IIIT-Bangalore

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Message from Chair IEEE India Council



Dr. Debabrata Das

Dear Esteemed IEEE Members,

Greetings from IEEE India Council!

It is a pleasure to release the fourth quarter of 2024 IC-Vaani and it will be my last message as Chair IC. Wishing all the IEEE members and their family a very happy new year 2025 with good health, prosperity and happiness.

In the last quarter (Oct-Dec) of 2024 activities: thanks to Prof. Preeti Bajaj and team for hosting the IEEE SSH (Sustainable Solution for Humanity) hackathon supported by R10, IC, IEEE Hong Kong, KITE and Chitkara universities successfully on 21st and 22nd Oct. 2024.

23rd November 2024 will go down in the history of IC, as a new section was born, i.e. IEEE Bhubaneswar Section joined as the 14th Section of India Council. I want to congratulate Prof. S. Samantaray, Interim Chair and all the execom members of IEEE Bhubaneswar Section for all the good works for above recognition as well as thanks to Kolkata Section, R10 and MGA to help the process of elevation from sub-section to section. We want to recognize Dr. Rajashree Jain for coordinating Fellow Elevation program on 30th Nov 2024, which was well attended by many members.

On 7th and 8th December, IEEE Madras Section and IC hosted AISYWLC 2024 in Chennai very successfully. My heartfelt thanks to Dr. Porkumaran, Chair IEEE Madras Section, Dr. Arun YP Madras and all the volunteers of Madras Section and across the country for participating the event and all supports from sections. The flagship conference of IC INDICON 2024 was hosted by IIT Kharagpur. Big thanks to Prof. Mrinal Mandal, Prof. S. Mukhopadhyaya, Prof. Debnath and all the volunteers for hosting it in a grand and successful manner. Hearty Congratulations to IC Award recipients, PGCIL-IC and HOPE Foundation awardee 2024.

My deepest appreciation and gratefulness to the execom 2023-2024: Advisors of IC Mr. Deepak and Prof. Sivaji, Ombudsman Mr. Asthana, Prof. Prerna, Chair-Elect, Prof. Sabarinath, Secretary, Prof. Vijayalatha, Treasurer and all the Vice Chairs, cordial association of all the Sections and Sub-Sections' Volunteers and respective Chairs as well as Society, Chapters and Affinity groups. My sincere regards to the contributions of Prof. Gopalan Nair, Editor of IC-Vaani, Mr Biju Associate Editor for the release of all the quarters editions of 2023-2024 IC-Vaani.

I wish all the best to 2025 Execom: Prof. Prerna Gaur, Chair IC, Prof. Preeti Bajaj, Chair-Elect, Dr. Rajashree Jain, Treasurer, and Er. Nandan S., Secretary IC and 2025 Execom members for a wonderful tenure.

I shall cherish the affection and support given by each one of you to IC and me for life time.

Warm Regards,

Warm Regards,

Dr. Debabrata Das
Chair, IEEE India Council

Editorial

"Talking is not doing. It is a kind of good deed to say well; and yet words are not deeds".

Shakespeare



Prof. (Dr.) K. Gopalan Nair
Editor, IC NL.

All of us know that talking is not doing. But a man of words and not of deeds, is like a garden full of weeds. Therefore, words are always intended for men for their probation only. Many of us know the saying, 'A tree is known by its fruit; a man by his deeds'. It is the case of man and is highly relevant in this context. For a man his actions are more truthful and impactful than his words. It takes very many good deeds to build a good reputation and only one bad one to lose it. Our deeds determine us, as much as we determine our deeds. Of course, we know that a man becomes great by deeds, and not by birth.

As a matter of fact, the words are potent weapons for all causes, good or bad. They do matter. When preserved in a dictionary, words are so innocent and powerless. When they reach in the hands a person who knows how to handle them, he will make it potent for good and or evil. Words shape thoughts, and thoughts shape deeds. Actions can indeed reveal thoughts and intentions. Performing a good deed can bring about feelings of happiness and joy. A good deed is never lost. He who sows courtesy reaps friendship, and he who plants kindness gathers love. A good deed is an action that helps others or improves oneself. Good deeds can be small or large; but they can make a positive impact on the world. Good words always bring good feelings to the heart!

Obviously, if the word and the deed are to be brought together, ethics and aesthetics must be separated. They must travel beside one another, mutually depending. But they cannot simply become each other. Words do matter. We need to speak with kindness, always. Practically it can be a bit daunting to work through this manner. Good deeds do not have to be an extravagant event or display. No matter the size or the expenses involved, a good deed makes a difference by improving someone's life. This will help others along with spreading kindness and igniting a chain reaction of good deeds. This include helping the needy, saving a life, or any good social deed. This will enhance a better person in us and transform the way in which we think, radiating happiness and feeling of rejoice.

Eventually, we have to remember the statement, 'truth in thought, word, and deed'. This means truth at all levels and also truth not only as a concept but as active work, good deeds which can be practiced in our life. As human beings, we express our thoughts and feelings, through what we say in our words and through what we do in our deeds and in our actions. We have to remember that, irrespective of our profession, to live a life of virtue, match up our thoughts, words and deeds!

Always remember, "A man is great by deeds, not by birth".

Prof. (Dr.) K. Gopalan Nair
Editor, IC NL.



Section-1

IC Activities

Educational Activities



Dr. Perna Gaur
Vice Chair & Chair-Elect
2024

While we consider educational activities under IEEE, STEM activities primarily focus on outreach programs through “Try Engineering” platform, including initiatives like STEM summits, volunteer portals, design challenges, educational resources, and grant programs aimed at inspiring young people to pursue STEM careers, particularly by engaging with pre-university students and educators through hands-on activities and mentorship opportunities; all designed to promote diversity and inclusion within STEM fields.

On 17th December ‘2024 a panel discussion on “Opportunities for Women in STEM” was held as WIE panel at iSES 2024 at IIITD. Prof Perna Gaur, Director West Campus Chair-Elect 2024, with Dr. Archana (Senior Advisor, Head Relations, Principal Scientist, CERN), and Ms. Rachna Malik (Vice President and Global Head of TCS ADD™ Platform) were the



panelists. All participants enjoyed the discussions with the learned panel.



AISYWLC is the IEEE India Council's annual flagship event, conducted on 7th& 8th Dec 2024, providing a platform for young professionals, academicians, scholars, entrepreneurs, and technocrats to connect and share ideas. The above photographs depict celebration of IEEE India Councils's legacy,



AISYWLC. 2024 in the Historical College of Engineering, Guindy, Anna University, Chennai with VP MGA Deepak Mathur, R 10 Director Elect 2025 Dr Sameer Saheer, IEEE India Council Chair Prof Debabrata Das, Chair Madras Section DrPorkumaran as a host to this event with Chairs and SYWL Volunteers from PAN India Sections. The event fostered leadership, innovation, and professional growth through various impactful sessions, showcasing the collaborative spirit of the Madras Section.

Prof. Prerna Gaur, Chair-Elect of IEEE India Council, was felicitated by Dr. Sree Sharmila in that occasion.

Presidential Address was by Dr. Debabrata Das, who emphasized the vision and future directions of the IEEE India Council. Shri. Deepak Mathur delivered the inaugural address, inspiring the audience with his leadership and guidance. Prof. Prerna Gaur delivered special addresses emphasizing the educational activities carried out in the last quarter of the year, enriching the session with expertise and perspectives. This was followed by special address by Dr. K.S. Easwarakumar.

Eventually, the current year witnessed a number of major events, important among them are:

IEEE Education Week celebration 14-20 April 2024

Cyber Guard – Cyber Security Quiz on 11th May

TENSYP-2024 held at New Delhi 27-29th Sept 2024

INDISCON 2024 at Chandigarh 24 Sept 2024

AISYWLC 2024 at Chennai 07-08 Dec 2024

INDICON 2024 at Kharagpur 19-21 Dec 2024, etc.

Currently, we are planning to put a lot of thought into our strategies, allowing a seamless flow of content and better teaching and learning experience through conducting various educational activities in the new year 2025, through new office bearers which enforce positive reinforcement in increasing students' confidence and motivation in their career through IEEE.

Humanitarian Technologies Activities



Ms Sadhana Attavar
Vice Chair

Report on Humanitarian Technologies Activities of IEEE India Council for the period October –December 2024

In October and November 2024, IEEE MOVE Outreach India conducted a series of impactful disaster awareness and STEM workshops across various regions of Karnataka. These initiatives aimed to educate students on disaster preparedness, climate change, and sustainability, fostering a safer and more resilient future.

Key Activities

Talk on Disasters and Climate Change

On October 10 2024 as part of IEEE Day celebrations at Oxford Engineering College in Bangalore, Ms. Sadhana Attavar, Vice Chair, HTA, IEEE India Council delivered a talk on climate change, disasters, and the role of MOVE India to an audience of 100 students.

STEM Workshops promoting Climate Change and Sustainability



During October-December 2024 IEEE MOVE India conducted eleven STEM workshops across India, reaching over 600 students. These workshops focused on educating students about climate change and fostering resilience through sustainability education. Out of the eleven workshops two workshops were held at Bangalore in collaboration with Vamana Institute of Technology, three workshops were held at Manipal in collaboration with Manipal Institute of Technology, one workshop was held at Pilikula Science Centre in collaboration with Canara Engineering College and five
















IEEE MOVE OUTREACH INDIA PROMOTING CLIMATE CHANGE & SUSTAINABILITY



Government Middle School, Kuhera
5th December, 2024



Government Higher Secondary School, Uperwara
7th December, 2024



Saraswati Shishu Mandir Higher Secondary School Jagdish Mandir, Garhafatak, Jabalpur, MP
16th December, 2024



Oriental Institute of Science & Technology, Bhopal, MP
19th December, 2024



MM School, Airport Road Raipur, Chhattisgarh
24th December, 2024



workshops were held in the states of Chhattisgarh and Madhya Pradesh in collaboration with IEEE MP Section.

STEM Kit Demonstration at AISYWLC 2024 Chennai

STEM kits on Climate Change and disaster awareness developed by IEEE MOVE India were demonstrated at AISYWLC'24 Madras held at Anna University Chennai during December 7-8 2024 and was well appreciated by the delegates and students.



Disaster Awareness Training Program

During October to December 2024 Seven disaster awareness training sessions were held across Karnataka, equipping over 450 students with the knowledge to respond to emergencies. These sessions were highly praised by participants and educators. Out of the seven workshops two workshops were held at Chikmagalur and another five workshops were held at Puttur in collaboration with Vivekananda College of Engineering and Technology, Puttur.



Disaster Awareness Training Summer Workshop at Chikamagaluru, Karnataka



DisasterAwareness Training Program at Puttur, Karnataka

IEEE MOVE Global Committee Meeting at Dallas Texas USA

Ms.Sadhana Attavar Vice Chair Humanitarian Technology Activities IEEE India Council and Chair IEEE MOVE India attended the MOVE Global Committee meeting held at Dallas Texas USA on November 22 2024 during which MOVE USA 3 Truck was displayed.



Curtain Raiser - AISYWLC 2024
2nd October | 7PM to 7:30 PM | Webex



SPECIAL ADDRESS
Dr. Purna Gaur
Chair Elect, IEEE India Council

Industry Academia Relations



Dr. John Jose
Vice Chair

IEEE India Council Industry Academia Young Professionals Committee [IAYPC] is formed for the year 2024 consisting of members from industry and academia. It is formed to streamline the Industry, Academia and Young Professionals collaboration of various sections coming under IEEE India Council. IAYPC is a dedicated body formed under the IEEE-India Council, focused on bridging the gap between industry and academia for young professionals, students, and faculty members. It aims to provide numerous opportunities for collaboration, skill development, and career enhancement, catering to the diverse needs of its members across the country. The committee organized various activities in consultation with IEEE India council and various IEEE sections in India. It also acts as a central hub to support sections in fostering Industry-Academia collaboration activities, promoting innovation, and driving economic development.

IAYPC and IIFON Standards Workshop and Hackathon brought together young minds across five regions of India to explore the critical role of Internet standards and foster innovation. The one-day workshops were held in Chennai (St. Joseph College of Engineering, September 18, 2024), Mumbai (Sardar Patel Institute of Technology, September 19, 2024), Greater Noida (Sharda University, September 21, 2024), Kolkata (Heritage Institute of Technology, September 24, 2024), and Guwahati (Royal Global University, September 26, 2024). These sessions educated participants on standards development, offered hands-on training, and ignited discussions on innovative applications

of Internet technologies. Following the workshops, a two-month remote hackathon allowed participants to build and refine their solutions, culminating in a grand finale co-located with the IEEE ANTS Conference at IIT Guwahati on December 16–17, 2024. Finalists were offered internship opportunities by IIFON, and the two winning teams earned the chance to participate in the IETF 122 Hackathon in Bangkok, supported by the AIORI project, showcasing the global impact of this initiative.

IAYPC has initiated two massive pan India wide Mentoring Programs. The Professional Mentoring Program (PMP) and Student Mentorship Program (SMP), aimed to create a supportive environment where young faculty members and students can grow professionally and personally, share knowledge, build networks, and actively engage with the IEEE community.

This year the SMP committee executed the Student Mentorship Program from July to December 2024, providing invaluable support, advice, and networking opportunities to students across various disciplines, including B.E/B.Tech, M.E/M.Tech, M.Sc, MCA, and Ph.D. studies. The program aimed to equip students with the necessary tools to present themselves effectively to potential employers, plan successful career paths, and navigate academic and professional challenges. Through personalized guidance from experienced mentors, the program enabled students to refine essential skills, gain industry insights, and expand their professional networks.

Standards Workshops in 5 Locations in India



St. Joseph College of Engineering
Chennai



Sardar Patel Institute of Technology
Mumbai



Sharda University Greater Noida



Heritage Institute of Technology
Kolkata



Royal Global University Guwahati



Key Features of the Mentorship Program

- **Mentor Mentee Mapping:** Each mentor was allocated 1- 3 mentees based on their specialization as an academician or industry personnel. This structure allowed for focused and interactive sessions tailored to the needs of each participant.
- **Regular Interactive Sessions:** These sessions focused on improving students' networking abilities, resume-building, and exposure to higher education opportunities. The mentorship also offered personalized career guidance and advice on exploring career options.
- **Broader Network Access:** Participants were introduced to a broader professional network, which enhanced their academic and professional prospects.

Throughout the program, six popular talks were conducted on critical topics to further enrich students' understanding of career and educational opportunities. These talks featured distinguished speakers from various fields, providing invaluable insights and advice.

1. **Popular Talk #1: "Higher Education in IISc, IITs, NITs, and IIITs through GATE"** Speaker: Prof. Venkatesh Tamarapalli (10th September 2024)

This talk provided a comprehensive overview of the opportunities available for higher education in prestigious institutions through the GATE exam.

2. **Popular Talk #2: "Introvert to IEEE Influencer"**

Speaker: Mr. Ramneek Kalra (24th September 2024)

The session focused on transforming introverted personalities into influential leaders within the IEEE community, emphasizing the power of networking and leadership.

3. **Popular Talk #3: "Plan your Engineering Education for a Professionally Rewarding Career"**

Speaker: Dr. John Jose (8th October 2024)

Dr. Jose's talk provided students with valuable guidance on how to strategically plan their engineering education to maximize professional success.

4. **Popular Talk #4: "The Disruption Called Gen AI"**

Speaker: Ms. Debanjana Dasgupta (22nd October 2024)

This talk introduced students to the rapidly evolving field of Generative AI and its transformative impact on technology and industries.

5. **Popular Talk #5: "Engineering Your Persona"**

Speaker: Ms. Sumedha Walia (12th November 2024)

Ms. Walia shared insights on how students can shape their personal brand and professional persona to succeed in the competitive job market.

6. **Popular Talk #6: "Emerging Semiconductor Ecosystem in India - Golden Era of Opportunities"**

Speaker: Ms. Chitra Hariharan (26th November 2024)

This session highlighted the growing semiconductor industry in India and the abundant career opportunities available in this sector.

In addition to the popular talks, two engaging panel discussions were held to further enhance the students' understanding of key career-related topics. Panel Discussion on "Women's Career in Technology" (14th December 2024) had 3 panelists; CA Dipti Bhate Thakkar, Founder, Thakkar Associates, Ms. Sumedha Walia, Enterprise Architect, TCS and Ms. Kapila Arora, Enterprise Architect, IBM. This panel discussion explored the challenges and opportunities for women pursuing careers in technology, offering valuable perspectives from female leaders in the industry.

The second Panel Discussion on "Future-Proofing Your Career: Emerging Trends and Skills in the Job Market" (5th December 2024) had also 3 panelists; Dr. Lenin Raja, VP, EMC Test and Training, Dr. Gaurav Arora, Senior Solution Architect, IBM and Ms. Rashee Jalal, Consultant Core, Microsoft. This discussion covered emerging industry trends, key skills required for the future job market, and practical tips on career development and growth.

The Student Mentorship Program successfully provided students with a wide range of opportunities for personal and professional development over the course of six

months. The Student Mentorship Program, which served 300 students with the guidance of 150 mentors, was an immensely successful initiative, offering targeted advice, industry insights, and networking opportunities. The program provided students with a comprehensive understanding of career-building strategies, emerging trends, and the skills required to thrive in the job market.

Professional Mentoring Program (PMP) for young faculty members aimed to create a supportive environment where members can grow professionally and personally, share knowledge, build networks, and actively engage with the IEEE community. The program was designed to enhance the skills, confidence, and career prospects of mentees. It also provided mentors with the opportunity to give back to the community and develop their mentoring skills. The program received overwhelming response and after carefully shortlisting, 80 mentors and 180 mentees were selected for this program. The induction meeting was conducted on 17th and 18th July 2024. The program covered one to one mentor mentee sessions and fortnightly talks on various topics by industry and academic experts. Some of the topics include how can you become an inspiring teacher? IEEE and Growth Path to Success, Art of Research Paper Writing: Tips and Tricks, Organising a Good Quality IEEE Conference - Application Process and Quality Guidelines, IEEE Membership, Panel discussion on How to Balance Professional Career and Personal Life Challenges Successfully etc. The feedback

received from mentors and mentees have confirmed that the program was really beneficial for them for technical and professional growth. Certificate of participation was awarded to mentees and certification of appreciation to mentors.

IAYPC is also involved in coordinating CONFLUENCE 2024 - the Largest Industry Academia Meet to be held at Kochi on 06.11.2024 with a theme on Future of Talent. It's being jointly organised by Rajagiri School of Engineering & Technology Kochi and the Group of Technology companies. Along with IEEE India Council other partners are Info Parks, Kerala, Smart City, Kochi, Kerala Startup Mission and KMRL. Key speakers include Dr S. Somanath, Chairman, ISRO; Mr V K Mathews, Executive Chairman, IBS Software; Dr Dileep George, Director, Google DeepMind; Dr Tessy Thomas, Missile Woman of India; Mr S. D Shibulal, Co-founder, Infosys; Adv Mathew Kuzhalsadan MLA; Mr Basil Joseph, Cine Actor & Director and Mr Jakes Bejoy, Music Director. The event will also feature renowned people from the government - Shri Suresh Gopi, MoS, Petroleum & Tourism, Ministers Shri P Rajeeve. The event comprises keynote sessions, panel discussions, start up and funded research projects expo, ISRO, KMRL and Water Metro stalls, PhD conclave, parallel workshops on IBM watsonx.ai, AI in Matlab, Cybersecurity, Design Thinking, Quantum Computing and RoboDogs from Unique World Robotics.

R10 EAC Workshop:

Educational Activities Committee 2025 Training

Date: Saturday, February 8, 2025

Time: 10:00 AM (UTC+08:00) Hong Kong | 07:30 AM IST

Join WebEx meeting:

<https://ieeemeetings.webex.com/ieeemeetings/j.php?MTID=m64a3b07fb64ff306bfda5c42d63254a0>

Meeting Number: 2534 685 8096, Meeting Password: NJxD7EBZH37

Event Details:

This workshop will focus on the support from EAB and R10 EAC in educational activity development. Attendees will learn about EAB products and R10 EA development grants, along with the grant submission process.

Register Here: <https://events.vtools.ieee.org/event/register/461956>

Life Member Affinity Group



Er. Koruthu P
Varughese
LMAG IC Chairman

My dear IEEE Life Members of IEEE India council.

I hope this message finds you well.

As we step on to the New Year 20205, first of all I would like to take a moment to wish you a prosperous and successful 2025! May this year bring you new opportunities, growth, and happiness!

As we crossed eventful year 2024, I am pleased to share with you a comprehensive report of our activities and achievements we had during the last quarter of the year 2024. It has been a year of growth, innovation, and collaboration, and we are excited to highlight the milestones we've reached together.

The Senior Group of Life Members continues to be an essential part of IEEE's mission, embracing a rich history of knowledge, innovation, and leadership. We have seen an increased engagement in local chapters, participation in technical events, and efforts to mentor the next generation of engineers and scientists. These activities underscore the value of our collective experience and the difference we continue to make within IEEE and beyond. It has been an inspiring and productive year, filled with opportunities for engagement, knowledge sharing, and service to the broader IEEE community.

Our mission remains as strong as ever- to support our Life Members and continue fostering connections that enrich our members' professional and personal journeys. Whether through local events, webinars, or outreach initiatives, our group had worked diligently

to create an environment where Life Members can share their expertise, contribute to ongoing projects, and enjoy the camaraderie of fellow engineers and technologists.

This last quarter also we could exhibit a reasonably good number of activities. As all LMAGs are distributed we had limitations in organising programs in all states of India. Hope we will overcome this in the next year.

Attached, please find a very brief report and photographs of some of the key highlights and achievements of the activities we could organise during the fourth quarter of 2024.

The following are a list of outcome of our activities on an analysis made.

1. Monthly online webinar.

The monthly webinar has given a platform for senior and elderly life members (even to those who could not move out due to health issues) to meet all and discuss and interact, give their valuable suggestions and extend contributions, motivate students, YPs, and members to get involved and make them active.

2. The planned schedule of activities.

As we have published a schedule list of LMAGs for arranging monthly webinars, all could plan well in advance and hand pick the best speaker from their area.

3. A work shop series on HealthCare, Life sciences and

first aid and organised in various places.

4. Programs was made and executed for organising International Conferences jointly with other societies of IEEE.
5. Conducted interactive programs with students.
6. Attended IEEE India council flagship conferees.
7. Attended R 10 Conferences.
8. Organised Panel discussions on the state of art topics.
9. Organised Biomedical devises Exhibition with an objective of encouraging students and researchers to develop ideas and products for commercialisation
10. Arranged technical tour with life members and family.

Organised many more programs, almost all are entered in V tools. Pictures of some of the activities are given below.

Looking ahead, we have exciting plans for the upcoming year, with more opportunities for you to get involved, learn, and make a difference. I encourage all of you to participate in upcoming events and to consider contributing your knowledge and experience to our shared goals.

In closing, I would like to extend my deepest gratitude to all of our Life Members who continue to make invaluable contributions to the IEEE community. Your dedication and passion inspire us all, and we look forward to working with you in the New Year.

Thank you for your continued support, and I wish you all a joyous and prosperous year ahead.

Warm regards,

Koruthu P Varughese

Chair LMAG India Council.



27 Sep 2024 03:45 PM

Technical Talk on "Expanding Career opportunities using Data based projects".



24th September 2024.

IEEE Leaders meet at Cochin in Nefertiti Cruise from IWAI jetty, Bolgatty to Arabian sea.

IEEE India council, IEEE Kerala Section and LMAG India Council organised a one day trip to Arabian see from Bolgatty IWAI Jetty on 24th September 2024.



• 25 Sep 2024 09:30 AM

This water metro project is expected to reduce pollution and traffic congestions in the city and also ease access to business areas on the mainland for urban households situated along the Kochi lakeshore.

The Kochi water metro project envisages the development of 15 identified routes, connecting 10 islands along a network of routes that span 78 km with a fleet of 78 fast, electrically propelled hybrid ferries plying to 38 jetties. More than 33000 islanders are expected to benefit from the water metro. It is envisaged to be a socially inclusive transport system than being just a transport service with focus on improved livelihoods through commercial property development and tourism-based initiatives.

This is the first Indian made Water boat for mass transportation.



Slide from Dr Kumar's Presentation



• 04 Oct 2024 03:30 PM

IEEE Day Celebration in Mohandas College of Engineering was inaugurated by Er. Koruthu Varughese, LMAG IC Chair.



Classroom Photo with Speakers and IEEE LMAs



Photo with Faculty Members of The Northcap University





10 Dec 2024 10:00 AM

Combined meeting with LMAGIC and LMAG Kerala



• 19 Dec 2024 09:30 AM

Technical Talk

Brain Computer Interface in Healthcare



LMAG IC Received an award for organising more than 6 technical talks in 2024

The award was received at Japan Tokyo



Dec 8th 2024

Delivered a talk and presented the activity report of LMG IC of 2024. At Japan.



AISYWL Inauguration



Executive meeting on 8th Dec 2024 at Chennai.



International conference co-hosted by LMG IC



With LMG Track organisers at AISYWL 2024.



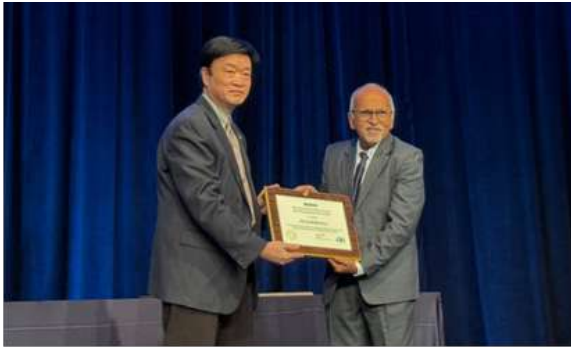
Panel discussion by LMG IC on 8th at Chennai



Mohandas K P delivering a talk at AISYWL Chennai



Balasubramaniam delivering a talk at AISYWL Chennai.



Radhakrishnan receiving award



Koruthu P Varughesae Chair LMAG India Council Joined the family get together with LMAG Kerala members.



Gopakumar S, the vice chair of LMAG Kerala received the 'Outstanding LMAG Award.




31st Dec

Koruthu P Varughese, Chair LMAG India Council delivered the Valedictory Talk on IGNIUM 2024 on 31st Dec 2024. Online.

Date: 31st Dec 2024
Closing Ceremony

- 18:30 IST: Meeting Starts
- 18:31 IST: Silent Prayer
- 18:32 IST: Welcome Address
Mr. Mohammed Faaiz Nizar Student Rep., IEEE EMBS Kerala Chapter SA
- 18:35 IST: Valedictory talk
Er. Koruthu P Varughese, Founding Chair, IEEE EMBS Kerala Chapter
- 19:05 IST: Prize Announcement
Mr. Vinodkumar V., Chairperson, IEEE EMBS Kerala Chapter
- 19:10 IST: Vote of Thanks
Dr Sudalaimani C., Secretary, IEEE EMBS Kerala Chapter
- 19:15 IST: Meeting Ends



3. He is recipient of Region 10 Outstanding Life Member Volunteer Award 2024.

- **Er. Sudhanshu Jamuar**, Life Senior Member
1. Appointed as member of MGA Life Member Committee for 2025



2. Appointed as Coordinator Life Member Affinity Group, India Council for 2025.

General & Section News

LMAG Delhi Section

LMAG, Delhi LMs have achieved following laurels / distinctions for IEEE Delhi Section and India Council

- **Er. Rajendra Kumar Asthana**, Life Senior Member



1. Appointed MGA Life Member Committee Chair for 2025.
2. He is privileged to have been offered Membership of IEEE Honor Society IEEE Eta Kappa Nu. Event took place at Dallas, Texas, US on Saturday, November 23, 2024.

AGM of LMAG Delhi

The nomination committee consisting of Sri Rajendra K Asthana (Chair), Sri Ashok Golas and Sri Vijay Gupta had proposed the slate for IEEE Delhi Section Executive Committee for the year 2025. This slate was approved by the members in the AGM held on 29th December 2024 in Room 11, Dr. Abdul Kalam Block, Netaji Subhas University of Technology, Dwarka, New Delhi.

The list of Executive Committee Members for the year 2025 for IEEE Delhi Section LMAG is following:

SN	Name	Position
1	Dr.Harbans Lal Bajaj	Chairman

- 2 Dr. V R Singh Vice Chair
- 3 Dr.SudhanshuJamuar Secretary
- 4 Dr. Subramanian Krishnamurthy Joint-Secretary
- 5 Er. Ashok Golas Member
- 6 Er. Vijay Kumar Gupta Member
- 7 Er. Ramesh Agrawal Member
- 8 Mr. Aditya Mishra, NSUIT IT Support

Visit to Indraprasth Institute of Information Technology Delhi

(Sponsored by R10)

IEEE Delhi Section LMAG Secretary along with IEEE Delhi Section Members visited IIIT Delhi on 17th December 2024. The objective was to enlighten students about IEEE and the benefits that they will accrue after joining IEEE as Student Member and benefits of Student Branch in their Institutions. This visit has been supported by IEEE Region 10.

Prof. S. S. Jamuar (LM) was accompnied by Prof. Sujoy Deb and Prof.Anuj Grover (Members). We interacted with students and updated them about the IEEE Membership Benefits and the abundance opportunities for professional networking/career resources & recognition and knowledge enhancement. Prof.Jamuar had interaction with several faculty members from ECE Department. Prof.Jamuar also told students about the benefits that student members get in attending the IEEE sponsored conferences like reduced registration fee, travel assistance etc.



Meeting with students With IIITD students and Prof.Anuj Grover



We appreciate and thank IEEE Delhi section members in supporting the activity of LMAG In conduct of its activities. The support by IEEE Region 10 LMAG coordinator is appreciated in providing the R10 funds for conduct of these events.

Visit to Rashtrapati Bhawan in Delhi on 15th December 2024

(Sponsored by R10 grant)

IEEE Delhi Section LMAG along with IEEE Delhi Section Members visited Rashtrapati Bhawan, official residence of President of India in New Delhi. The Rashtrapati Bhawan; formerly Viceroy's House (1931–1947) and Government House (1947–1950)) is the official residence of the President of India at the western end of Rajpath, Raisina Hill in New Delhi. It was constructed during the British Raj.

Rashtrapati Bhavan has 340-room main building that has the president's official residence, including reception halls, guest rooms and offices, also called the mansion; it is built in 130-hectare (320-acre) Presidential Estate that additionally includes the presidential gardens, large open spaces, residences of bodyguards and staff, stables, other offices and utilities within its perimeter walls.

LMAG Team with IEEE Delhi Section members and guests visited Rashtrapati Bhawan on 15th December 2024. It was a pleasant sunny day and our members enjoyed the sunny day in winter in the forecourt of Rashtrapati Bhawan. It was a guided tour inside Rashtrapati Bhawan

in which we were taken around different ceremonial rooms. Description of some of the rooms are given now.

One of the most fascinating and ornately decorated rooms of Rashtrapati Bhavan is the Ashok Mandap, which



Ashok Mandap Ganatantra Mandap The Banquet Hall

is artistically done up space. Ashok Mandap is now used for important ceremonial functions like presentation of credentials by Heads of Missions of foreign countries and as a formal place of introductions for the visiting and Indian delegations prior to the commencement of the State Banquets hosted by the President. The ceiling and the flooring of this room both have a charm of their own. While the floor is totally wooden and has springs beneath its surface, the ceilings of Ashok Mandap are decorated with oil paintings.

The Ganatantra Mandap bears testimony to this historic moment of the swearing in ceremony of Independent India's first government. The grand simplicity of Ganatantra Mandap is enthralling as it is indisputably the most regal room of the presidential palace, where C. Rajagopalachari took oath as the Governor-General of India in the year 1948. The Ganatantra Mandap is used to host Civil and Defence Investiture Ceremonies wherein the Hon'ble President of India confers the prestigious honours to the recipients. Swearing-in ceremonies of incoming governments, additions to the Council of Ministers and the swearing in of the Chief Justices of India are all conducted at the Ganatantra Mandap.

The Banquet Hall or the State Dining room epitomizes the artistic wealth in ornate details. It has capacity of sitting up to one hundred and four people at a time. It is used for the purpose of hosting banquets by the President of India for their visiting counterparts across the globe. This





room is one hundred and four feet long, thirty-four wide and thirty-five feet high overlooks AmritUdyan flanking towards one of its side. Burmese teak panelling decorates the walls of the Banquet Hall while the floors are patterned in grey kota stone and white makrana marble. One can notice the silent bell motifs, carved in wood, over the fluted projecting columns, and the similar ones are placed above the Tuscan pillars of the Forecourt.

LMAG Kerala

(Reported by: Prof. VK Damodaran, LMAG Chair, Kerala)

Life Members hold AGM with Event Mark at 94

The Life Members (All Life Seniors) of Kerala met with their spouses, incoming LSMs, and some Friends of IEEE to mark and celebrate the completion of 94 events during the year 2024 – global all time high – on 10 December at Trivandrum. In 2023, with 83 events completed Kerala LMAG won excellence awards for performance at R 10 level and Global level. The highlights of Kerala LM activities are: 1. Continuing education for technicians 2. Women Empowerment through training and support to set up microenterprises in green energy promotion

3. Mentoring Panchayats and Municipalities, Hospitals, and education institutions for planning Carbon Neutral Projects 4. Outreach through networking with government institutions, women organizations, Technicians' Associations in technology area, educational institutions at all levels 5. Planning projects for the differently abled children and youth 6. Involvement in State Policy making bodies 6. Direct interaction with the public on impacts of current and emerging technologies, etc.

Dr. Jacob Kulangara, R 3 LMC Coordinator and Member MGA LMC was the guest of honour. He delivered a lecture on how senior professionals can demonstrate technology management to benefit the society. LMs put forward a number of ideas and activities that could be pursued through LMAG in association with sister Ou's and other Organizations.



Home Electric Training- Participants



Opening at SN Women's College, Kollam



Opening at SN Women's College, Kollam



LMAG AGM 2024- Luncheon

Kolkata Section

Title of the talk: IoT in Agriculture

Speaker: Prof. (Dr.) Bijoy Kumar Upadhyaya, Principal-in-Charge, Tripura Institute of Technology, Narsingarh, Tripura (West) - 799009

Prof. (Dr.) B. K. Upadhyaya



No. of Participants: 19 IEEE Members and 6 Guests – Total 25

Summary of the Talk:

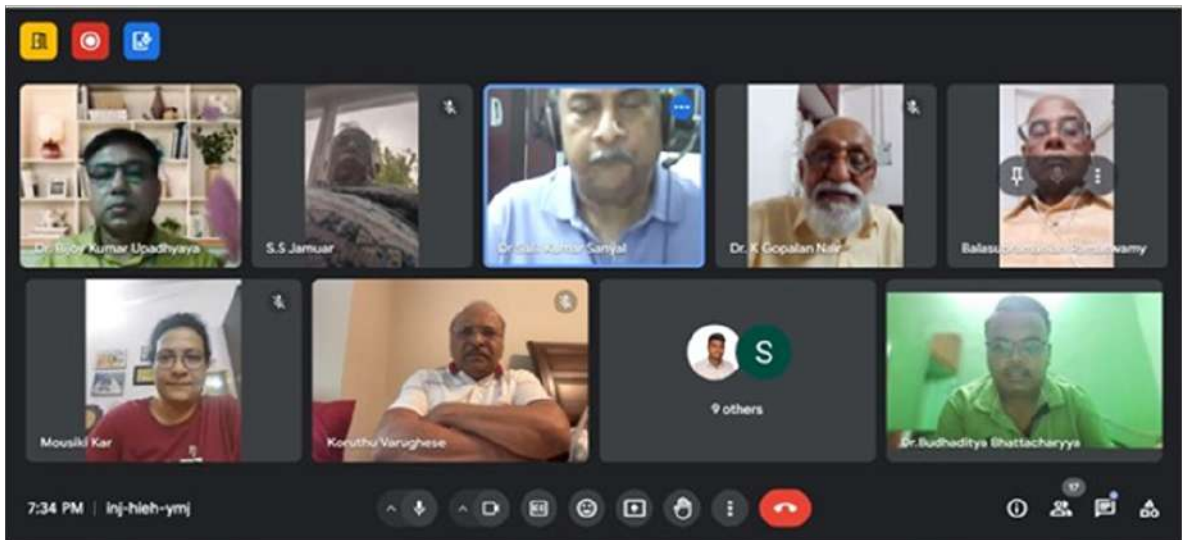
The integration of Internet of Things (IoT) technologies into agriculture has heralded a new era of precision farming, revolutionising traditional agricultural practices and fostering sustainable agricultural development. IoT facilitates the creation of smart farming systems by connecting physical devices embedded with sensors, actuators, and software to collect, analyse, and act upon real-time data. By harnessing the power of IoT technologies, farmers can optimise resource management, improve decision-making processes, and enhance overall farm productivity while minimising environmental impact. These insights enable informed decisions regarding crop management, pest control, and yield optimization, leading to increased productivity and profitability. Moreover, IoT enables remote monitoring and management of agricultural operations, empowering farmers to oversee their fields and livestock from anywhere at any time. Through mobile applications and web-based platforms, farmers can access real-time data on crop health, weather conditions, and equipment status, enabling proactive intervention and timely responses to potential threats or challenges. This presentation demonstrates an overview of the transformative potential of the IoT in agriculture. It highlights the challenges of the traditional agriculture system and emphasises the role of IoT in agriculture to transform the challenges into opportunities. The talk describes various components of IoT and enabling technology with respect to agricultural applications. Brief discussion is made on some potential application areas of IoT in agriculture. It presents the major benefits and challenges of IoT in agriculture. The presentation also includes a few case studies related to the IoT in agriculture.

Some participants in the online LMAG Program held on 25.04.2024

SECOND LMAG Activity of IEEE Kolkata Section in 2024

Held on Thursday 11.07.2024 at 7 : 00 pm to 8 : 30 pm

Venue: Online (Google Meet)



Organizers: IEEE LMAG India Council and IEEE LMAG Kolkata Section Dr.Basabdatta Palit

Title of the talk: The Challenges and Opportunities of UAV-Enabled Integrated Sensing and Communication in 6G

Speaker: Dr.Basabdatta Palit, Assistant Professor, Deptt. of ECE, NIT Rourkela, Sector -1, Odisha - 769008



No. of Participants: 20 IEEE Members and 6 Guests – Total 26

Summary of the Talk:

The 6G standard envisages an integration of communication and sensing capabilities to boost spectrum efficiency and network performance while exploring novel applications. In this aspect, Integrated Sensing and Communication (ISAC) for Unmanned Aerial Vehicle (UAV) - Enabled networks has gained widespread attention. UAVs can be used to provide pervasive communication coverage while also enhancing sensing accuracy and gain. However, UAVs are limited by their size, weight, mobility, LoS channels, and power constraints. On the other hand, ISAC load can reduce the independent communication load and sensing load of UAVs, thereby contributing towards improved flexibility. This talk focuses on how symbiosis can be effectuated to improve ISAC using UAVs and UAV-Enabled network performance using ISAC. It shall also deeply delve into communication-assisted sensing and sensing-assisted communication technologies from the UAV perspective. Technical emphasis would be stressed on Digital Twins, Immersive Cloud Computing, Holographic Communication with ultra low latency, application of AI in protocol stack, Reconfigurable Intelligent Surface, Ultra massive MIMO and Orbital Angular Momentum.

Some participants in the online LMAG Program held on 11.07.2024

THIRD LMAG Activity of IEEE Kolkata Section in 2024

Held on Thursday 28.11.2024 at 6 : 00 pm to 7 : 30 pm

Venue: Online (Google Meet)



Dr. MousikiKar

Organizers: IEEE LMAG India Council and IEEE LMAG Kolkata Section

Title of the talk: Semiconductor Technology shaping the future

Speaker: Dr.MousikiKar, Associate Professor, Deptt. of ECE, Heritage Institute of Technology, Kolkata - 700107

No. of Participants: 19 IEEE Members and 6 Guests – Total 25

Summary of the Talk:

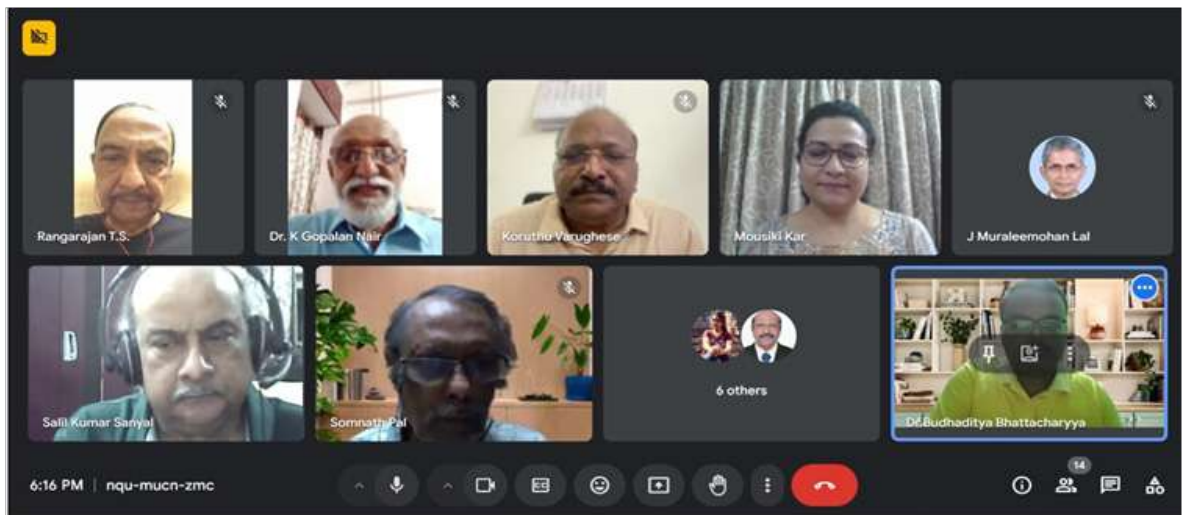
The relentless evolution of semiconductor technology has been the driving force behind transformative advancements in electronics, computing, and artificial intelligence. This talk, 'Semiconductor Technology Shaping the Future', explores the pivotal role of transistor scaling in enabling unprecedented levels of performance, energy efficiency, and device miniaturization. From the foundational principles of MOSFETs to the emergence of cutting-edge architectures like FinFETs and Gate-All-Around FETs, the talk highlights innovations that address scaling challenges such as short-channel effects, leakage currents, and thermal constraints. The discussion extends to the adoption of advanced materials, including silicon carbide, gallium nitride and 2D materials, which are reshaping the semiconductor landscape. Emerging trends in 3D integration, quantum devices, and AI-enhanced chip design are discussed, highlighting their potentials to redefine the boundaries of technology. Through real-world applications in IoT, robotics, smart cities, and next-generation AI systems, this talk demonstrates how semiconductors remain at the forefront of innovation, driving progress across industries. By blending historical milestones with future possibilities, this talk offers a comprehensive perspective on how semiconductor technologies will continue to shape the future of humanity.

Some participants in the online LMAG Program held on 28.11.2024

Life Member Affinity Group (LMAG) IC - 2025

IEEE India Council Chair Prof.Pruna Gaur has announced LMAG IC Committee.

1. Prof. SudhanshuShekharJamuar - India Council as Coordinator of LMAG.
2. Committee Members



1. Uttar Pradesh Section with 10 Life members
2. Gujarat Section with 6 Life members
3. Pune Section with 6 Life members
4. Kharagpur Section with 1 Life members
5. Madhya Pradesh Section with 2 Life members
6. Vizag Bay Section with 1 Life members

(Note: Data given on life members is from 2024 statistics)

The Executive committee of IC LMAG consists of following positions:

Ex officio Chair Sri Koruthu Varghese

Chair Prof. Sudhanshu S Jamuar

Vice Chair Vacant

Secretary Vacant

Treasurer Vacant

Excom member 3 positions Vacant

Exofficio Members Chair Bangalore Section LMAG

Chair Bombay Section LMAG

Chair Delhi Section LMAG

Chair Madras section LMAG

Chair Hyderabad Section LMAG

Chair Kerala section LMAG

Chair Kolkata Section LMAG

Nominations are invited from India Council LMAG consisting of UP, Gujarat, Pune, Kharagpur, Madhya Pradesh and Vizag bay Sections for the following positions for the India Council LMAG for the year 2025.

1. Vice Chair 1 position

2. Secretary 1 position

3. Treasurer 1 position

4. Excom Members 3 positions

Nominations may please be sent to me by email (ssjamuar@gmail.com) with subject as IC Excom-Position by 21st January 2025.

The nomination should be sent in following format:

1. Position applied:
2. Name of nominee
3. IEEE membership number
4. Mobile number
5. email address
6. Name of Section

The meeting of India council LMAG will be held in the first week of February 2025, will announce the date after 21st January 2025.

Thanks and Regards,

Prof. Sudhanshu Shekhar Jamuar

Dr. Vivek Shrivastava



(National Institute of Technology Uttarakhand, lives in Srinagar Garhwal, Uttarakhand)

Received IEEE PES Chapter Outstanding Engineer Award (OEA) 2024 by the IEEE PES IAS Joint Chapter, IEEE Delhi Section. This recognition is a significant milestone in his professional journey, reflecting his commitment to advancing the field of power and energy engineering and contributing to the vibrant IEEE community. Currently, he is the Secretary of the IEEE PES IAS Joint Chapter working with an incredible team in organizing impactful technical programs and foster knowledge sharing and building strong bridges between academia and industry.

He inspires and mentor young engineers and professionals to achieve their potential in this field. This award will undoubtedly motivate him to continue striving for excellence and contributing to the engineering community.

Dr. M.K Radhakrishnan

Congratulations and best wishes to Dr. MK Radhakrishnan, IKS Life Senior Member for this notable achievement

EDS DISTINGUISHED SERVICE AWARD

The EDS Distinguished Service Award was established in 1993 by the IEEE Electron Devices Society. The Award is presented annually and is intended to recognize and honor outstanding service to the Electron Devices Society and its sponsored activities

PREVIOUS AWARD WINNERS

1994	Friedrich M. Smits	2004	Louis C. Parrillo	2014	Yuan Taur
1995	Lewis M. Terman	2005	Gary Y. Yang	2015	Reto P. Jindal
1996	Alfred U. Mac Rae	2006	Steven J. Hillenius	2016	Paul K.L. Yu
1997	George E. Smith	2007	Richard S. Muller	2017	Shuji Ikeda
1998	W. Dexter Johnston, Jr.	2008	Hiroshi Iwai	2018	Albert Z. H. Wang
1999	John R. Brews	2009	Tak H. Ning	2019	Jacobus W. Smart
2000	Michael S. Adler	2010	Marvin H. White	2020	Samar Saha
2001	H. Craig Casey, Jr.	2011	Tessam Adnida	2021	Timothy Anderson
2002	Lucian A. Kasperak	2012	Douglas P. Verret	2022	Fernando Guarin
2003	Frederick H. Dill	2013	Cor L. Claeys	2023	

2024 EDS DISTINGUISHED SERVICE AWARD RECIPIENT

MK Radhakrishnan

MK Radhakrishnan has been working in the field of semiconductor devices both in industry and research labs for the past more than 40 years. Since 1982, he has worked in various technical and managerial positions at Indian Space Research Organization, ST Microelectronics and Institute of Microelectronics (IME) Singapore, and Philips Electronics in Singapore and Netherlands. At IME, he was instrumental in setting up a full-fledged Failure Analysis and Reliability laboratory. In academia, he was an Adjunct Professor at National University of Singapore (1994-2004).

Also served as a visiting Professor at Indian Institute of Science Bangalore and Cochin University of Science and Technology (CUSAT), India. His areas of research include device failure analysis and reliability including ESD in devices and systems where he has published over 60 research papers. In the IEEE Electron Devices Society, Dr Radhakrishnan has served in various capacities over the years including the elected Secretary (2020-2023), Vice President - Regions & Chapters (2016-2019) and elected member of Board of Governors (2011-2016). As the Editor-in-Chief of EDS Newsletter (2013-2017) he revamped the publication and made it available to everyone online. He also served as the Regional Editor of EDS Newsletter for South and South-East Asia, Australia & New Zealand. As the EDS Region 10 SRC Vice Chair, Regions & Chapters committee member and Chapter partner, he was instrumental in initiating many new EDS Chapters and strengthening existing Chapters in the Region 10 including India, Bangladesh, Nepal, Singapore, Malaysia and Indonesia. Dr Radhakrishnan was Editor of Journal of Electron Devices Society (JEDS) and Guest Editor to IEEE TDMR. He also served as the Editor of the Microelectronics Reliability journal (UK) and Journal of Semiconductor Technology and Science (S Korea). He was the General Chair of EDS conferences EDTM (2019) and IEDST (2009) and EDS Sponsored conference IPFA (1999). He was instrumental in initiating the IEEE IEEE conference in Asia. He was one of the founding members of the EDS/EP/REL Singapore Chapter where he served as Chapter chair in 2000-2001. He serves as an EDS Distinguished Lecturer since 1997. Radhakrishnan received PhD degree in Semiconductor Physics from CUSAT and Masters degree in Solid State Electronics from Sardar Patel University, India. He is a Life Senior Member of IEEE, Life Fellow of Institution of Electronics and Telecommunication Engineers, India and Member of ESD Association, USA.

"How to prepare Camera Ready Paper for IEEEExplore"

A discussion on the topic.

No Registration fee. You are free to forward this links to others too, who are interested.

The virtual session starts at 7PM on 29-1-2025.

Speaker: Dr. Lakshminarayana Sadasivuni

Past Chair IEEE Vizag Bay Section, Vice Chair (Professional Activities) IEEE India Council 2025.

Virtual link:

<https://ieeemeetings.webex.com/ieeemeetings/j.php?MTID=m04d6d76b0a91fb8ea9d6f200c948d978>



Dr. Rajashree Jain
Vice Chair

Membership Development Committee (MDC)

FocusTo support Member Recruitment and Retention

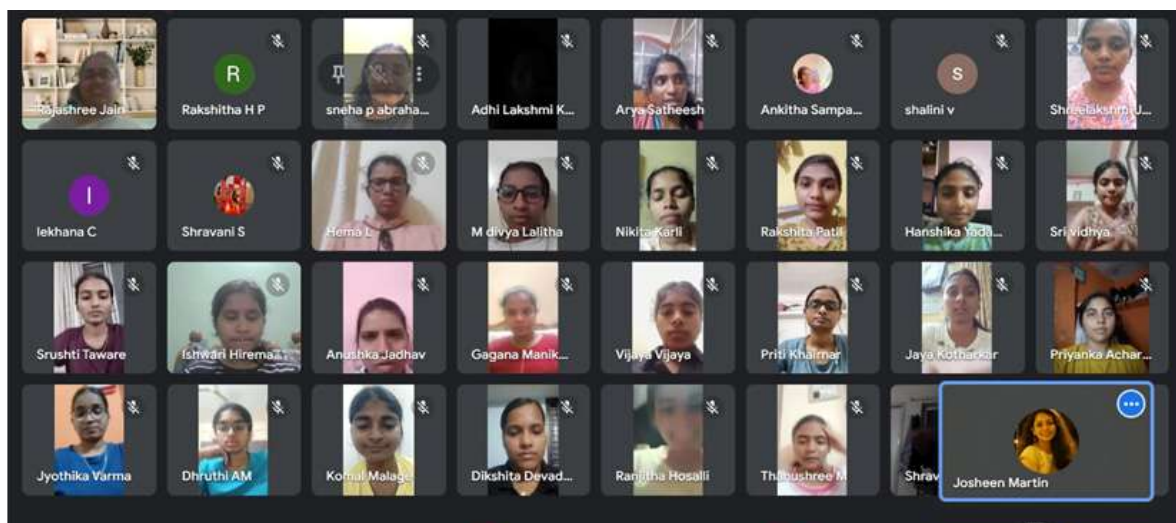
IEEE India Council is the umbrella organization for 14 Sections in India. Bhubaneswar Section was the youngest section elevated recently from sub section to a full section in the year 2024.

Member Statistics as on 19 December 2024

Section Name	#count	Grade	#Count
Bangalore Section	18293	Affiliate	159
Bhubaneswar Section	842	Associate Member	466
Bombay Section	4658	Fellow	49
Delhi Section	7459	Graduate Student Member	6016
Gujarat Section	2037	Honorary Member	1
Hyderabad Section	9137	Individual	1
Kerala Section	14834	Life Fellow	36
Kharagpur Section	487	Life Member	46
Kolkata Section	4072	Life Senior	218
Madhya Pradesh Section	1568	Member	15685
Madras Section	20077	SA Member	12
Pune Section	1986	Senior Member	6027
Uttar Pradesh Section	4918	Student Member	63878
Vizag Bay Section	2226		
Grand Total	92594	Grand Total	92594

The MD team, under the guidance of Prof. Debabrata Das, Hon. Chair, IEEE India Council, and Dr. Rajashree Jain, Vice Chair, Membership Development, IEEE India Council have planned sessions for the benefits of members of India. The following activities were considered during the for the year 2024.

S N	Details of MD Initiative	Date(s) & Place	Number of Participants
1	INDISCON 2024	August 22-24, 2024, Chandigarh	NA
2	MD session with IEEE Outreach and Quest Global Scholars	10 September 2024, Online	207
3	MD Session with IEEE Vizag Members	13 September 2024 Online	45
4	TENSYMP 2024	September 27-29, 2024, NSUT, Delhi	NA
5	Aura -Orientation session for freshers- IEEE SB CET in collaboration with IEEE India Council Membership Development Committee	1 October, 2024, Offline at IEEE SB CET	146
6	Mohan Babu University, Tirupati, MBU IEEE Student Branch Inauguration	5 October 2024 Offline at MBU, Tirupati	60
7	Symbiosis Institute of Computer studies and Research, Pune - MD Booth- INCOWOCO 2024	13 November 2024 Offline at Symbiosis, Pune	130
8	Fellow Elevation Seminar	1 December 2024, Online, WebEx,	218



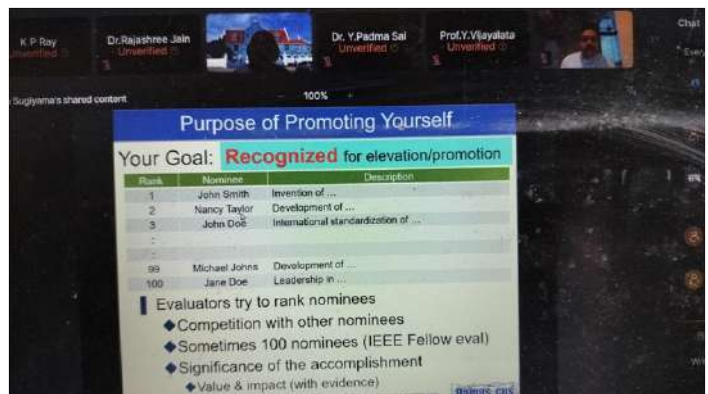
Few Glimpses of MD session with IEEE Outreach- Quest Global Scholars



Few Glimpses of MD session with IEEE Student Branch, MB University, Tirupati



Aura -Orientation session for freshers- IEEE SB CET in collaboration with IEEE India Council Membership Development Committee



IEEE Fellow Elevation Seminar

IEEE INDIA COUNCIL

 **IEEE**

IEEE India Council Membership Development Committee
presents a

SEMINAR ON

IEEE FELLOW ELEVATION PROCESS

OUR ESTEEMED SPEAKERS



Dr. K.V.S Hari
IEEE Fellow
Professor
IISC Bangalore



Dr. G. Bhuvaneswari
IEEE Fellow
Professor
School of Engineering,
Mahindra University



Dr. Akihiko (Ken) Sugiyama
IEEE Fellow
Member-at-Large
Yahoo Japan Corporation



Dr. Debabrata Das
Chair,
IEEE India Council
Director, IIIT
Bengaluru



Dr. SV Kulkarni
IEEE Fellow
Professor
IIT Bombay

DATE: Sunday, 1st December 2024

TIME: 10:00 AM - 11:00 AM (IST)

Register now

<https://forms.gle/8FVjseKaLB2t7gvm7>

IEEE Fellow Elevation Seminar



**Dr. Sudeshna
Choudury
Vice Chair**

Women in Engineering

IEEE Events where India Council was Host/co-Host:




IEEE WIE AG HYDERABAD SECTION

in association with

IEEE WIE INDIA COUNCIL

presents

A SERIES OF LIGHTNING TALKS

ON

Leveraging Women in Engineering towards Accelerating Progress and Achieving Success



Dr. Y VIJAYALATA
*Chair - IEEE Hyderabad Section,
 Treasurer - IEEE India Council
 Dean - Vardhaman College of Engineering*



Ms. SUDESHNA CHOUDHURY
*Vice Chair - WIE, IEEE India Council
 Sustainability Evangelist, Tata Consultancy Services*



Dr. MINI ULANAT
*Digital Transformation Specialist , Fulbright Scholar,
 Cheresnev Fellow
 Member, IEEE Diversity and Inclusion committee*



Ms. RUSHALI THAKKAR
*Secretary, PES HAC 2024
 Assistant Professor,
 M.J.Saboo Siddik College of Engineering*



March 8, 2024



2:00-3:00 PM

#1 Sudeshna was a speaker on “Women in Sustainability” in the event “LIGHTNING TALK on “Leveraging Women in Engineering towards Accelerating Progress and Achieving Success” organized by IEEE WIE AG Hyderabad Section & IEEE WIE India Council on 8th March 2024

#2 Sudeshna was a panelist in IEEE Returning Mothers Conference 2024 Panel Discussion- “Reskilling in








IEEE RETURNING MOTHERS CONFERENCE 2024

Presents

PANEL DISCUSSION : RESKILLING ON TECHNOLOGY : OPPORTUNITIES



Indian Institute of Science, Bengaluru, India



15th and 16th November, 2024

Panelist:

Sudeshna Choudhury
*Chair, IEEE India Council
 Women in Engineering*



Our Sponsors

















































Technology: Opportunities” on 15th November 2024
in IISC, Bangalore

IEEE Events not hosted by India Council where IEEE WIE IC Vice Chair participated as Speaker /Panelist/ Advisor/Organiser/Chief Guest

#1 Sudeshna was a Keynote Speaker in CONVERGE 2024: Sustainable Innovation of the Future organized by IEEE IEM CS Student Chapter on 27th January



2024 in Institute of Engineering & Management (IEM). Her topic of talk was “Sustainable Innovation of the Future”

#2 Sudeshna was invited to give the Inaugural address to the audience on the occasion of International Women’s Day 2024 in the Webinar “Getting a handle on the career trajectory the - WiE way” organized by IEEE WIE Bangalore Section on 8th March 2024

#3 Sudeshna was a speaker on Innovation around Waste Management and Circularity in IEEE WIE International

Leadership Summit with a theme “Resilience and Innovation Navigating a Sustainable Future” organized by IEEE WIE AG Delhi Section on 11th August 2024 in India International Center, New Delhi

#4 Bangladesh Section (IEEE BDS), the IEEE Industry Applications Society (IAS) Bangladesh Chapter, and the IEEE Women in Engineering (WIE) Bangladesh Section Affinity Group jointly hosted a talk and panel discussion on “Role & Engagement of Women in AI for Academia, Industry, and Entrepreneurship.” on 13th September

2024. Sudeshna Choudhury was one of the panelists along with Prof. Celia Shahnaz and two more eminent panelists. This event took place alongside PEEIACON 2024.

#5 The IEEE WIE AG Hyderabad Section had organized an event “A Step Beyond BINARY - Let’s break the GLASS CEILINGS” on 20th July 2024 to spark creativity and promote inclusivity, promising an exciting opportunity for all participants. This event aimed to promote gender equity and enhance diversity in engineering. Sudeshna Choudhury was the Chief Guest for the Valedictory Session.

#6 Sudeshna Choudhury spent a day in Jaipur Engineering College and Research Centre (JECRC) on 15th October 2024, to inaugurate the IEEE Women in Engineering (WIE) Affinity Group, address the students on innovative solutions and potential use cases for sustainability and visiting JECRC innovation center to witness wonderful work done with E-waste and 3D printing.

#7 Sudeshna was a speaker in the IEEE R10 WIE Chairs Meeting on 30th November 2024, hosted by IEEE WIE Bangalore Section as part of Bangalore Technology Conclave 2024 where the IEEE WIE R10 chairs discussed best practices for engaging women professionals from industry.

#8 Sudeshna organized the 8th Episode of the “Dare to Dream” series on 30th November 2024.

In 2021, IEEE Women in Engineering (WIE) Kolkata Section started the talk series: “Dare to Dream” on Indian women who had ventured in STEM education and careers more than 50 years back. Its 8th Episode was with Dr. Surekha Zingde, Retired Dy. Director, Cancer Research Institute, ACTREC, Tata Memorial Centre, member of the Board of Trustees of the Indian Women Scientists’ Association (IWSA) and past President of IWSA.

#9 Sudeshna was the co-chair for the WIE Track in IEEE CALCON 2024. She organized the Panel Discussion “Leveraging AI for a Sustainable Future” on 14th December 2024 in Jadavpur University, Kolkata. It was a very interesting conversation, with panelists from different domains and professions which provided a

diverse perspective of how AI can be leveraged for a sustainable future.

#10 GIEEE (IEEE India) is collaborating with Quest Global Corporate Social Responsibility funding for IEEE Women in Engineering (WIE) Scholarship. As part of Quest Global’s commitment to fostering change, the IEEE India Philanthropy is joining hands to uplift 325 female engineering students across Bangalore, Trivandrum, and Pune. Sudeshna is a part of this transformative endeavour as a member of the advisory committee and is actively involved in shaping up the programme and providing the guidance and support for execution.

#1

Event: Jaipur Engineering College and Research Center -Inauguration of the IEEE Women in Engineering (WIE) Affinity Group

Date: 15th October 2024

Venue: JECRC, Jaipur

Role: Guest & Speaker

LinkedIn Post: https://www.linkedin.com/posts/sudeshna-choudhury-31335692_ieee-wie-sustainability-activity-7253414370762727425-MH__?utm_source=share&utm_medium=member_desktop

Sudeshna Choudhury spent a day in Jaipur Engineering College and Research Centre (JECRC), to inaugurate the IEEE Women in Engineering (WIE) Affinity Group, address the students on innovative solutions and potential use cases for sustainability and visiting JECRC innovation





center to witness wonderful work done with E-waste and 3D printing. 15th October being the International Day of Rural Women was a great day to meet the women workforce in JECRC and spend time with them

#2

Event: IEEE Returning Mothers Conference 2024-Panel Discussion: Reskilling in Technology: Opportunities.

Date: 15th November 2024

Venue: Indian Institute of Science, Bangalore

Role: Panelist

LinkedIn Post: https://www.linkedin.com/posts/ieeermc_reskilling-in-technology-unlock-your-potential-activity-7262914919136702465-11ZV?utm_source=share&utm_medium=member_desktop
https://www.linkedin.com/posts/ieeetems_join-us-for-the-ieee-returning-mothers-conference-activity-7259179594384076800-H4oE?utm_source=share&utm_medium=member_desktop

Sudeshna Choudhury along with other panelists provided meaningful insights on Reskilling in Technology.

Reskilling in technology presents vast opportunities for professionals to reinvent themselves, enhance their careers, and contribute to innovative solutions. They spoke on the following benefits of Reskilling:

1. Enhanced Career Prospects: Upskilling in emerging technologies boosts employability.

2. Increased Earning Potential: Reskilled professionals can command higher salaries.
3. Future-Proofing: Staying relevant in a rapidly changing technological landscape.
4. Diversified Skill Set: Expanding expertise across industries and domains.
5. Personal Growth: Developing new skills fosters creativity, innovation, and confidence.



#3

Event: IEEE R10 WIE Chairs Meeting, hosted by Bangalore Technology Conclave2024

Date: 30th November 2024

Venue: Online

Role: Speaker

LinkedIn Post: https://www.linkedin.com/posts/women-in-engineering-ieee-bangalore-section-bangaloretechnologyconclave2024-indiacouncil-activity-7268550742720802816-oxVR?utm_source=share&utm_medium=member_desktop

Sudeshna Choudhury was a speaker during the event where the IEEE WIE R10 chairs discussed best practices for engaging women professionals from industry.

Event Highlights:

- Focus: Strategies to enhance membership recruitment, retention, and engagement among women professionals in IEEE WIE.
- Objective: Explore how to provide clear value to industry

professionals and create platforms that integrate them into the WIE community effectively.

- Opportunities: Network with global leaders, gain actionable insights, and contribute to fostering growth in WIE.

#4

Event: Dare to Dream -Episode 8 – IEEE WIE Kolkata Section

Date: 30th November 2024

Venue: Online

Role: Organiser/Moderator

LinkedIn Post: https://www.linkedin.com/posts/sudeshna-choudhury-31335692_ieee-ieee-wie-womeninstem-activity-7263791393259560960-5UCI?utm_source=share&utm_medium=member_desktop

IEEE Kolkata Section and Women in Engineering (WIE) organised the 8th Episode of their Dare to Dream series on Saturday, 30th November 2024.

In 2021, IEEE Women in Engineering (WIE) Kolkata Section started the talk series: “Dare to Dream” on Indian women who had ventured in STEM education and careers more than 50 years back. Its 8th Episode was with Dr. Surekha Zingde, Retired Dy. Director, Cancer Research Institute, ACTREC, Tata Memorial Centre, member of the Board of Trustees of the Indian Women Scientists’ Association (IWSA) and past President of IWSA.

Dr. Zingde comes with a vast experience of setting up a Research Institute. Her expertise is in Cancer Biology, chronic myeloid leukemia, membrane proteins, signal transduction and oral cancer proteomics. She was the past President of the Proteomics Society, India during 2014-16 and is presently a member of its Executive Council. Dr. Zingde is Fellow, Maharashtra Academy of Sciences. She is the Chairperson of the Indian Scientific Advisory Committee of Lady Tata Memorial Trust. She is deeply involved in academics with multiple institutions for advisory, journal reviews, Ph. D guidance, publications, monograph, patent creation and as a faculty.



We were privileged to have her as our speaker on the day to talk about her life experiences with us.

YouTube : <https://youtu.be/3kdRsi7GjK8>



#5

**Event: IEEE CALCON 2024: Panel Discussion
“Leveraging AI for a Sustainable Future”: IEEE WIE
Kolkata Section**

Date: 14th December 2024

Venue: Jadavpur University, Kolkata

Role: Organiser

LinkedIn Post: https://www.linkedin.com/posts/sudeshna-choudhury-31335692_ai-sustainability-aiforgood-activity-7274020819633106944-E-b8?utm_source=share&utm_medium=member_desktop

The session was moderated by Ms. Sudeshna Mazumder, IBM Hybrid Cloud Transformation Practice Leader at IBM Client Innovation Center, India. After providing her perspectives on where industry is heading towards advancing AI for a sustainable world in the future, she engaged into an interesting conversation with the panelists to understand their views on the subject from their domain of expertise.

Dr. Arundhati Misra Ray, Ex-Group Director, SAC/ISRO spoke about AI technologies or innovations which are transformative for the space industry. She mentioned the importance of balancing the need for cutting-edge AI solutions with minimizing environmental impact, energy consumption, and ensuring long-term sustainability in space missions

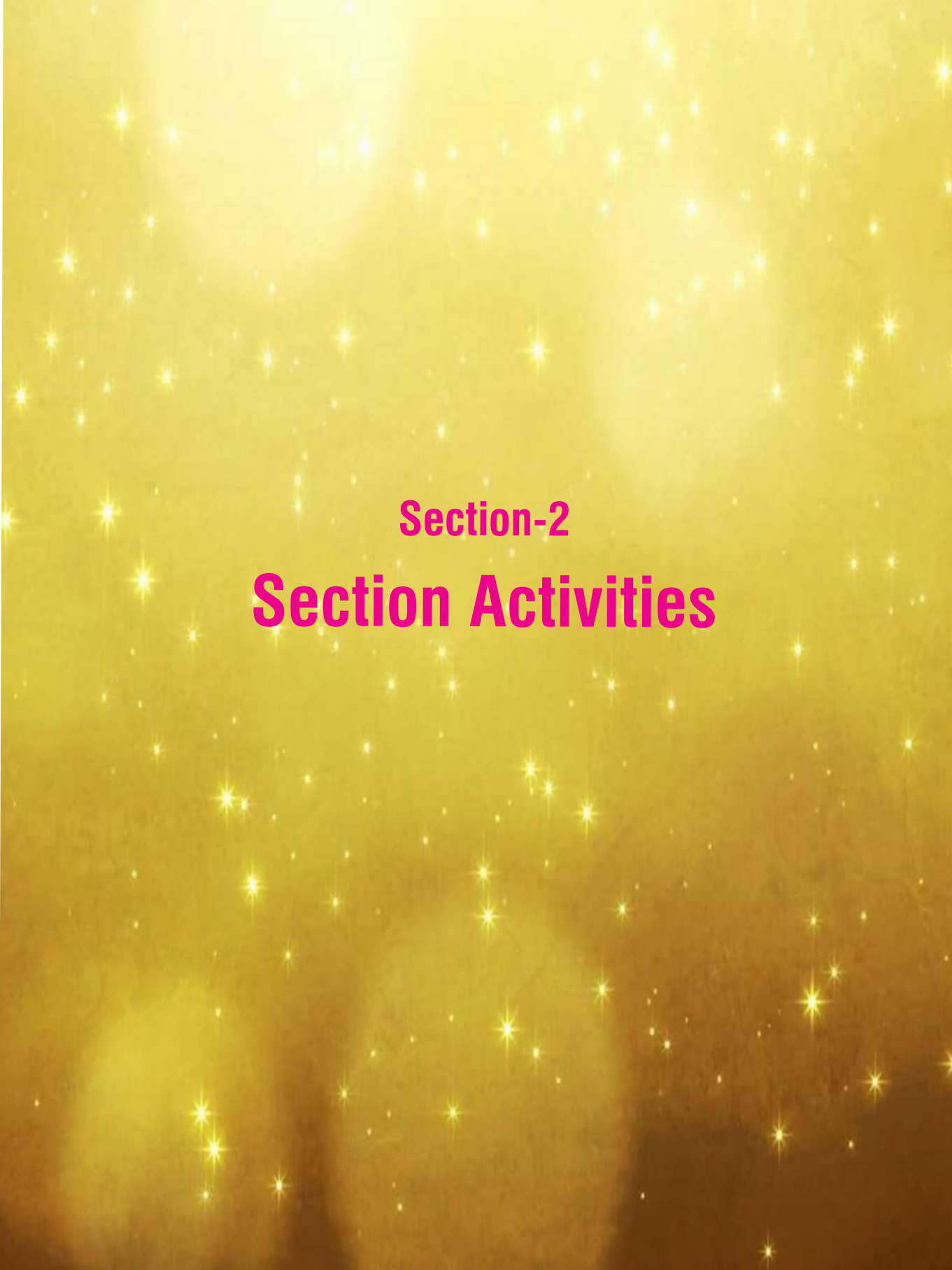
Ms. Sahana Bhowmick, Founder Director, DITO Social Welfare Association shared her views on how AI can

contribute to advancing gender equality and improving women's welfare and highlighted on the necessity of right usage of AI in the society.

Dr. Debabrata Roy, Cardiologist, RN Tagore Hospital emphasised on the importance of the right synchronization of engineering and medical sciences to produce the advancements necessary for the benefit of healthcare. He elaborated how AI is helping cardiologists with early detection of conditions like heart failure, arrhythmias, or coronary artery disease. He mentioned about the joint AI research initiative along with Tata consultancy services which will address some of the key problems and opportunities in this space and enlightened us with the humungous potential of AI in providing assured medical services at scale in the future.

It was a very interesting conversation, with panelists from different domains and professions which provided a diverse perspective of how AI can be leveraged for a sustainable future.





Section-2

Section Activities



Dr. G. Prasad Acharya
Section NL Editor

Hyderabad Section

Section Student Congress 2024

19/10/2024

The annual flagship event, Section Student Congress '24, of IEEE Hyderabad Section's Student Activities Committee was held at the Tagore Auditorium, OUCE Student Branch, on 19th October 2024, with the theme "Semiconductors in AI Evolution."

This congress consisted of six technical talks by various professionals from the Industry that allowed students and professionals to get an invaluable exposure to various topics including Semiconductors for AI - an Edge Intelligence Perspective, Industry Ready requirements for Radar and Sensor Engineering, How Semiconductors are Powering AI Evolution: from Blackwell to Quantum Robotics and Powering the AI Revolution: The Role of Semiconductors in transforming Energy Systems.

The flagship SSC '24 event served as a bridge between

academia and industry, immersing participants from across 37 different academic institutions in the latest advancements in semiconductors and AI. With practical insights and interactive activities, it strengthened student engagement and career preparedness.

R10 SYWLC 2024

August 29, 2024

At the R10 SYWLC 2024, the IEEE R10 Young Professionals' Career and Leadership Aid Program (CLAP) showcased a transformative experience centered around the Japanese concept of Ikigai—the reason for being. Held on August 29, 2024, at the National Olympic Memorial Youth Center in Tokyo, Japan, the program featured a mix of workshops, panel discussions, and networking opportunities aimed at guiding participants to explore their passions, align them with professional aspirations, and create societal impact.





technologies, a Career Discovery Forum addressing non-linear career paths, and interactive sessions like “Lunch with Leaders” for mentoring opportunities. Workshops were tailored to equip attendees with future-proof skills, enhance employability, and cultivate leadership qualities. With a holistic focus on personal and professional growth, CLAP 2024 empowered participants to become well-rounded technology leaders ready to navigate the complexities of the modern tech landscape.

IEEE Mini-Poco

20th October 2024

The IEEE Mini-POCO (Panel of Conference Organizers) 2024 is an event organized under the umbrella of the IEEE Hyderabad Section on 20th October, 2024. Mini-POCO workshops are typically aimed at equipping IEEE members with skills and best practices for organizing and managing conferences effectively. These workshops

focus on areas such as budgeting, publishing, logistics, and fostering technical excellence in IEEE events. Speaking on this occasion, Dr Y. Vijayalatha, Chair, IEEE Hyderabad Section has delivered a welcome address highlighting the benefits of this conference to the conference organizers. Dr M.A. Jabbar, Secretary, IEEE Hyderabad Section has given a detailed presentation on the procedural steps to be followed when organizing any IEEE conferences. Dr V. Jayaprakasan, Treasurer has given a detailed presentation on budgeting and accounting part, and its importance for a successful conduct of any conference.



Women in Power (WIP) Summit at IEEE PES ISGT Asia Conference 2024

10th November 2024

The Women in Power (WIP) Summit, held as part of the IEEE PES ISGT Asia Conference 2024, provided an invaluable platform for career advancement and empowerment for IEEE Region 10 members. The event was led by Dr. S. Harivardhagini, Events Lead & Region 10 Coordinator. Taking place on November 10, 2024, at the Radisson Blu Atria in Bangalore, the summit brought together a dynamic community of professionals, both working and non-working, to connect with global industry leaders, participate in speed mentoring sessions, and explore strategies to enhance their career trajectories.

The WIP Summit aimed to empower women professionals by addressing unique challenges, enhancing their skill sets, and broadening their network to support career progression across various domains. The carefully curated sessions were designed to equip participants with practical tools, from crafting an impressive career

portfolio to strengthening their online presence, thereby helping them take proactive steps toward sustained career growth.



Industry Conclave - Translational Research to Entrepreneurial Ventures

October 25, 2024

The IEEE Hyderabad Section successfully organized the Industry Conclave - Translational Research to Entrepreneurial Ventures on October 25, 2024, at The Hotel Tourism Plaza, Begumpet, Hyderabad. This hybrid event was a collaborative effort by the Industry Relations Committee, IEEE R10 Advisory Committee on Entrepreneurship and Innovation (ACEI), and IEEE Women in Engineering (WIE) Affinity Group Hyderabad Section. The conclave aimed to bridge the gap between translational research and entrepreneurship by bringing together eminent leaders from academia, industry, and government. The agenda was designed to foster discussions on innovation, technology transfer, and entrepreneurial opportunities. The keynote lectures include Translational Technology Transfer by Dr. Kumudhini Ravindra, Technology Entrepreneurship - Laying the Foundation in the Campus by N. Venkatesh, Building Stronger Ties: Academic-Industry Partnerships in the Digital Age by Dr. VSK Murthy Balijepalli and Industry Roundtable Discussion.

"MEMs Fundamentals: Insights into Scaling, Design Considerations and Applications"



24th October 2024

IEEE Sensors Council Hyderabad Chapter has been selected as one of the chapters to conduct the “MEMS Training Program” in association with Anna University as a Nodal Centre. This is under New Initiative program by IEEE Sensors Council. The first session was organized to cover the fundamentals. Micro-Electro-Mechanical Systems (MEMS) are miniature devices that integrate mechanical and electrical components at the microscale, leveraging unique scaling effects where surface forces dominate over volume-dependent forces like gravity. These devices exhibit a high surface area-to-volume ratio, influencing behaviors such as adhesion, heat dissipation, and material strength. MEMS design requires careful consideration of structural stability, material selection, and environmental interactions while ensuring efficient integration with electronics. Fabrication involves precision techniques like lithography, etching, and robust packaging. Applications of MEMS span diverse fields, including accelerometers in smartphones, micro-pumps in biomedical devices, RF MEMS in communication systems, and energy harvesters for IoT, showcasing their versatility and growing importance in technology. The speaker Dr. Prita Nair, Professor, SNU Chennai provided insights on the fundamentals of MEMS and its applications.

Distinguished Lecture: Ultra Low Power Sensor Interfaces for IoT

22.11.2024

IEEE SNIST-SB Sensors Council Chapter in association



with IEEE Sensor Council, Hyderabad Chapter, has organized a DL talk on “Ultra Low Power Sensor Interfaces for IoT” on 22.11.2024. The resource person for the DL talk was Prof. Arokia Nathan, FIEEE, FIET, CEng, Darwin College, University of Cambridge, U.K.

Dr G. Prasad Acharya, Faculty Advisor, IEEE SNIST-SB Sensor Council Chapter delivered the welcome address inviting the speaker, Prof. Arokia Nathan, Dr Sangeetha Singh, Chair IEEE Sensor Council, Hyderabad Section and all the participants, and introduced the speaker. Prof. Arokia Nathan is a leading pioneer in the development and application of thin film transistor technologies to flexible electronics, display and sensor systems, and mm-Wave radios on glass. The talk has provided the insights on the device properties when transistors are operated in the deep sub-threshold region, addressing the pivotal requirement of low supply voltage and ultra low power leading to potentially battery-less operation.

Throughout the session, participants engaged actively, posing thought-provoking questions which indicate the deepening of their understanding on designing and



interfacing ultra low power sensors for IoT. The event has been concluded with a heartfelt vote of thanks delivered by Mr. Maruthi Ganesh, Chair of IEEE-SB Sensor Council Chapter.

JC Bose Memorial Lecture on “Small Satellite Constellations – Global Applications Scenario”

30/11/2024

IEEE MTT-S/AP-S/EMC-S Joint Chapter of Hyderabad Section organized its annual flagship 14th Acharya JC Bose Memorial Lecture on “Small Satellite Constellations – Global Applications Scenario” by Dr Seshagiri Rao V, Former Distinguished Scientist & Associate Director, SDSC ISRO. This presentation provided an overview of the industry experience in constellations design, operations and statistical trends for the upcoming requirements. It also highlighted the tools most often used to overcome constellation management issues, such as applications of machine learning/artificial intelligence. As such, Satellite constellations, and enabling technologies plays substantial role in world space economy.

Symposium of Research Scholars (SYRES -2024)

09/11/2024

IEEE MTT-S/AP-S/EMC-S Joint Chapter Hyderabad Section and IEEE MTT-S/AP-S/EMC-S Pune Section jointly organized the second Symposium of research Scholars at DIAT, Pune. The Symposium has two keynote

talks, one on “Compacting the airborne RF electronics through Multi-functional SOCs” by Dr Sandep Chaturvedi, Dy. General Manager, GAETEC, Hyderabad and second one on “Antennas and Arrays Design for Communication Systems and RF Sensors for Defence Application” by Dr. Prashant Kumar Mishra, Sc ‘G’, Dy. Project Director AD(WS), PGAD, RCI, DRDO Hyderabad followed by Presentation of PhD Scholars and M.tech Students. Initially 28 participants registered for the Symposium and 18 students presented their research work.



3 Day Workshop on RF DESIGN AND SIMULATION

5-7 December 2024

The IEEE MTT-S(SBC10721G) & AP-S SBC(SBC10721C) in association with IEEE AESS Hyderabad section and Dept of ECE, Osmania University has organized a 3 Day Workshop on RF DESIGN AND SIMULATION at E-Class room, Main building, UCE, OU, during 5-7 December 2024. The event commenced with the inaugural session, during which we had the honor of formally welcoming Prof.P.Chandrasekhar, Professor, UCE(A), Dr. Madhumita Chakravarti, Chair IEEE AESS HYD section, Dr. A. Bharathi Faculty Advisor AP-S and associate professor of ECE dept., Prof. D. Ramakrishna Faculty Advisor MTT-S and HOD of ECE dept along with other all participates. The 3-day workshop was a valuable experience, providing hands-on exposure to advanced antenna design, electromagnetic simulation. Participants gained practical insights into optimizing antenna arrays and learned key techniques in microwave systems. The knowledge shared by the experts will empower participants to apply these skills in real-world applications, making the workshop an essential and enriching experience for all.

Special Awards and Achievements

1. IEEE Communication Society approved "Event Funding Support" to the listed Student Branch Chapters (ComSoc)
2. Dr Prashant Kumar Misra, chair, IEEE MTT-S/AP-S/ EMC-S Joint Chapter, Hyderabad Section has

received appreciation certificate from IEEE MTT-S R10.

3. B. Vamsa Vardhan Reddy, SSR received Outstanding Student Volunteer Award from IEEE India Council.
4. Tripura Pidikiti has been recognized as a winner of IEEE Outstanding Branch Counselor and Branch Chapter Advisor Award from IEEE MGA.
5. IEEE VNRVJIET got India Council Outstanding Student Branch Award.

\$ USD Amount approved by ComSoc	Chapter Name	SPO ID	Region	IEEE Section
\$350	Balaji Institute of Technology & Science	SBC14014B	R10 - India	Hyderabad Section
\$350	BVRIT Hyderabad	SBC15591H	R10 - India	Hyderabad Section
\$350	G Pulla Reddy Engrg College	SBC15721	R10 - India	Hyderabad Section
\$350	G.Palluiah College of Eng & Tech	SBC16401J	R10 - India	Hyderabad Section
\$350	Guru Nanak Institutions Technical Campus	SBC60219485A	R10 - India	Hyderabad Section
\$350	Hyderabad Inst of Tech & Mgmt	SBC09841A	R10 - India	Hyderabad Section
\$350	Joginipally B.R. Engineering College	SBC10126B	R10 - India	Hyderabad Section
\$350	Koneru Lakshmaiah College of Engineering	SBC62881D	R10 - India	Hyderabad Section
\$350	Madanapalle Institute of Tech & Science	SBC64791	R10 - India	Hyderabad Section
\$350	Mohan Babu University - Tirupati	SBC62331C	R10 - India	Hyderabad Section
\$350	Narayana Engineering College Nellore	SBC99073E	R10 - India	Hyderabad Section
\$350	Saethiram Engineering College	SBC20202A	R10 - India	Hyderabad Section
\$350	Sreenidhi Inst of Science & Tech	SBC61921C	R10 - India	Hyderabad Section
\$350	Sreenivas Inst of Tech & Management Studies	SBC61691B	R10 - India	Hyderabad Section
\$350	Sreyas Institute of Engineering & Technology	SBC10164	R10 - India	Hyderabad Section
\$350	Sri Venkateswara College of Engineering	SBC14181B	R10 - India	Hyderabad Section
\$350	Vaagdevi Engineering College	SBC20202A	R10 - India	Hyderabad Section
\$350	Vardhaman College of Engineering Shamshabad	SBC02391C	R10 - India	Hyderabad Section
\$350	VEMU Institute of Technology	SBC60211814A	R10 - India	Hyderabad Section



Kerala Section



Er. Biju G R,
Associate Editor
IKS NL

Malabar Sub Section

1. Professional Engagement Program and Victory Celebration

The event held on 2nd November 2024 Hotel East Avenue, Calicut. Speakers were Mr. Jayakrishnan, (board member of the IEEE Humanitarian Technology Board (HTB)), Dr. Sameer S. M. (Director-Elect, IEEE Region 10), AyushGoel, (Assistant Collector, Kozhikode). The event served as both a professional development gathering for IEEE members and a celebration of Dr. Sameer S. M.'s recent election as Director-elect of IEEE Region 10. Mr. Jayakrishnan, a board member of the IEEE



2. The Beyond Glass Barriers (BGB-2024)

Held on 9th November 2024 at Sabarmathi Hall, Central University of Kerala (CUK), organized by IEEE WIE Malabar Subsection and IEEE Women in Engineering (WIE) Affinity Group under IEEE Student Branch, CUK, in association with the Department of Computer Science, CUK. The event featured a series of interactive sessions, including networking, mentorship, and career growth discussions. Notable speakers included Prof. Muhammed Kasim S, Chair of IEEE Kerala Section, and Dr. Sameer S. M., Director of IEEE Region 10, who emphasized the need for women's empowerment in technology.

3. Two-Day Workshop on AI and AI-Driven Systems Using MATLAB and Simulink

Event held on December 18–19, 2024 at Government Engineering College Kozhikode. Speaker: Siva Prasad, from Corel Technology.



The IEEE Malabar Subsection conducted a two-day workshop on AI and AI-Driven Systems Using MATLAB and Simulink at GEC Kozhikode. The sessions were led by Siva Prasad, from corel Technology, who delivered comprehensive lectures and practical demonstrations on building AI-driven systems.

Kochi Subsection

Event 1: IEEE Kochi Subsection Execom meeting: Department of Electrical and Electronics Engineering, Carmel College of Engineering and Technology, Alappuzha in association with IEEE Kochi Subsection & IEEE PES Kerala Chapter organized a Five-day Faculty Development Programme (Hybrid mode) on “Exploring New Frontiers in Power Systems and Power Electronics.” from 4th to 10th October 2024.



Event 2: Hands on workshop on semi-custom ASIC design flow

IEEE CUSAT SB in association with IEEE Kochi Subsection organized a hands-on workshop on Semi custom ASIC design flow, at CUSAT campus on 19th October 2024.

Conference Activities Board (CAB)

IEEE Kerala Section organized its two flagship conferences, International Conference on Recent Advances in Intelligent Computational Systems (RAICS) and International Conference on Signal Processing, Informatics, Communication and Energy Systems (SPICES), hosted by Mar Athanasius College of Engineering, Kothamangalam and Indian Institute of Information Technology Kottayam, respectively. The section also extended technical co-sponsorship to 11 other conferences throughout the year.



Educational Activities

Technical Talk on Introduction to 5G: Educational Activities, IEEE Kerala Section jointly with IEEE Malabar Subsection, Institution of Engineers, Kozhikode Chapter and IETE Kozhikode Subcentre organized a Technical Talk on the topic Introduction to 5G. Dr. Vinay Joseph, Assistant Professor, Department of ECE, NIT Calicut handled the session. The speaker provided an introduction on 5G, described about the benefits of 5G and explained various applications where 5G is used. There were around 40 members from different professional bodies attended the talk.



Promotion of Innovation & Entrepreneurship (PIE)

In 2024, the IEEE PIE Kerala Section successfully organized a series of impactful events that empowered young professionals and students with valuable skills, insights, and opportunities. STEP'24, held on April 28. On May 4, PIE-Verse '24 brought together tech enthusiasts and aspiring entrepreneurs for parallel sessions on design, startups, and Figma, alongside a captivating talk by RJ Shambu, fostering innovation and growth. Brand Quest 2024, the flagship online event, engaged participants in marketing and brand management challenges, complemented by insightful talks on small business





strategies and big data. Culminating the year's events, V-FIESTA 3.0, hosted on September 28–29 at Jyothi Engineering College, offered workshops on cybersecurity, origami, and power supply design, cultural experiences at Kerala Kalamandalam, and competitive events like Cascade Clash, Keyboard Ninja, and Techopoly.

Special Interest Group on Humanitarian Technology (SIGHT)

1. EUREKA 2024 STEM Outreach Program

The EUREKA 2024 STEM Outreach Program, organized in Oct 2024 by IEEE SB NSSCE in collaboration with IEEE Kerala Section SIGHT, aimed to inspire high school students to explore how technology can solve global challenges. Focusing on environmental sustainability, climate change, and disaster management, the initiative aligned with the United Nations Sustainable Development Goals (SDGs). Over two days, the program reached four schools: St. Ann's Senior Secondary School, NSS HSS Akathethara, MESEM Higher Secondary School Olavakkode, and GHS Ummini.

EUREKA 2024 successfully achieved its objectives by inspiring students to leverage technology for societal impact. With plans for expanding its scope, the program promises a lasting contribution to sustainable development and STEM education.

2. SOURAJALA

The Sourajala project, implemented by IEEE SB NSSCE in collaboration with IEEE SIGHT Kerala Section on 13 to 15 th Dec 2024, addressed water scarcity in the tribal village of Chavadippara, Walayar, Palakkad. Spanning three days, the initiative integrated solar power with clean water distribution to improve living conditions for 18 families. The project demonstrated the potential of sustainable energy solutions to tackle essential needs in rural communities.





3. Disaster Awareness

The event aimed to introduce primary school students to get knowledge about disaster Awareness. The event was held on 26th October 2024, and the event was attended by 23 participants from TKM Higher Secondary School. The session was conducted by IEEE SIGHT SB TKMCE in association with IEEE SIGHT Kerala Section and MOVE INDIA.

GENAI X GENDER Hackathon

Amrita IEEE SIGHT SB, in collaboration with Amrita Vishwa Vidyapeetham and IEEE Kerala Section SIGHT, launched the GENAI x Gender Hackathon in Nov 2024, as part of the International Conference on Gender and Technology (GTC) 2025.



STEM Training workshops and mentorship sessions on project based learning for social innovation conducted in three schools by IEEE TryEngineering STEM Champions

4. 3D Modeling and Design Workshop

As part of the IEEE Pre-University (Pre-U) STEM Program, and in collaboration with AMMACHI Labs, Amrita Vishwa Vidyapeetham, we conducted a hands-on 3D Modeling and Design workshop on 27th and 28th July 2024. The workshop introduced 11 students to the fundamentals of 3D modeling using Tinkercad, equipping them with practical skills for designing and manipulating 3D objects. Over the course of two days, the students explored the Tinkercad platform, designed their own models (such as skateboards), and learned how to modify STL files.

The participants responded positively, with strong interest in future workshops on advanced topics such as AI, Arduino, and automation.



5. Mentorship Program at Amrita VidyalayamThalassery

From November 27th to December 3rd, the Amrita SIGHT Student Branch, IEEE Kerala Section SIGHT, and AMMACHI Labs, Amrita Vishwa Vidyapeetham, conducted a pre-university STEM mentorship program at Amrita VidyalayamThalassery as part of its The Second Foundation initiative.

Life Member Affinity Group(LMAG)

(See a detailed report included in IC LMAG report)



Women in Engineering

IEEEWiERegional Retention Revitalization and Advancement Symposium

The IEEE Women in Engineering (WIE) Regional Retention, Revitalization, and Advancement Symposium, held on November 30, 2024, at TKM College of Engineering, Kollam, was a global gathering aimed at empowering women in technology. Jointly organized by the IEEE WIE Membership Development & Retention Subcommittee and IEEE WIE AG Kerala Section, the event hosted 151 participants in a hybrid format, fostering collaboration, mentorship, and innovation.

Sastra Vismaya& Gen AI – AI Tool Introduction

The IEEE SB CE Poonjar, in association with the IEEE WIE Kerala Section, organized “Sastra Vismaya& Gen AI – AI Tool Introduction” on November 9, 2024. The event aimed to engage students with science, technology, and innovation while introducing them to emerging technologies like AI.



Saaga24

On November 2, 2024, IEEE Women in Engineering (WIE) Kerala Section, in collaboration with IEEE CUSAT Student Branch, hosted Saaga24: A Tale of Thousand Stars, a transformative one-day event celebrating empowerment, innovation, and personal growth.





Circuits and Systems Society



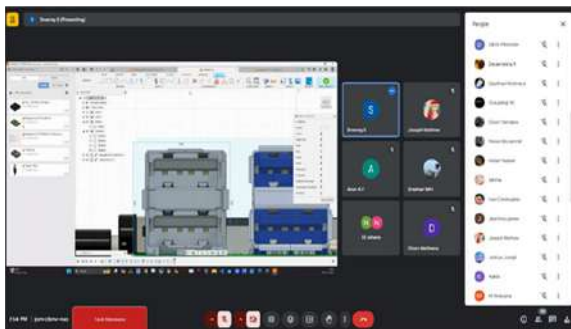
IMCS Weekly R&D Talks - II

From 9 October to 11 December Intelligent Materials Circuits and Systems Group under Prof. Alex James, Digital University conducted a series of R&D talks in order to strengthen the interdisciplinary knowledge of the community.

Photographs showing the images of R&D talks delivered at Digital University Kerala.

Program : 3D Modelling for Electronics Engineers

The “3D Modelling for Electronics Engineers” workshop was held on November 7, 2024, from 7:00 PM to 8:30 PM, was an insightful session led by Mr. Sreerag S, Product Design Engineer at Xalten Systems.



Photograph from the event “3D Modelling for Electronics Engineers”



Program : Workshop Cum Internship Drive: Vega Boards for IoT applications

At Sahrdaya College of Engineering and Technology on 16 October 2024

The Department of Electronics and Communication Engineering (ECE), in collaboration with the IEEE Circuits and Systems Society (CASS) Sahrdaya Student Branch, successfully conducted a Workshop Cum Internship Drive on the topic “Vega Boards for IoT Applications” on 16th October 2024.

Photograph from the event “ Vega Boards for IoT applications”

Program: Distinguished Lecture Program on AGI Chips and Workshop on Neuromorphic Computing

At Sahrdaya College of Engineering and Technology on 28 October 2024.

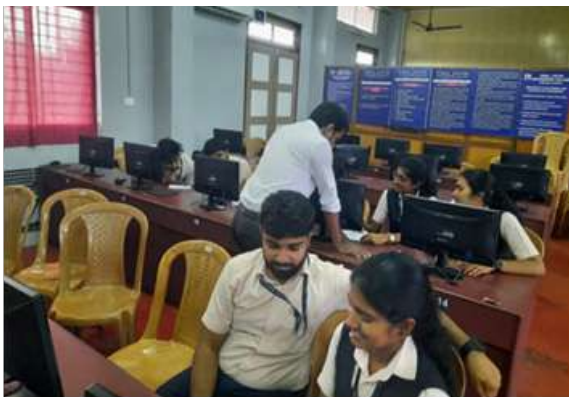
On October 28, 2024, Sahrdaya College of Engineering and Technology (SCET) held a distinguished lecture program focused on “ Artificial General Intelligence Chips,” presented by Dr. Alex P. James, Dean of External Linkages and Professor at Digital University Kerala.

Program : Unlocking Your Potential

At VimalJyothi Engineering College
on 7-8 December 2024



The two-day event was organized under the sponsorship of IEEE Circuits and Systems Society (CAS). The workshop included interactive lectures, live demonstrations, and hands-on sessions.



Photograph from the event “Unlocking Your Potential”

Program: CASIF-OSCM

At ParkCenter, Technopark Phase 1 (Digital University Kerala) at 18 December 2024

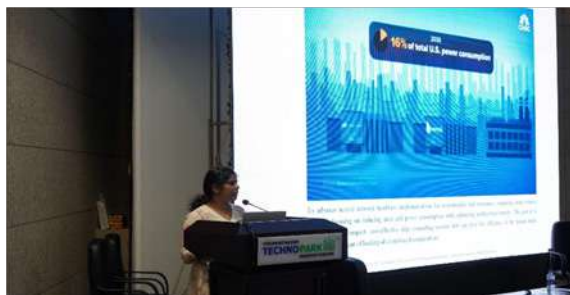
IEEE CASS Student Branch Digital University Kerala, IEEE CASS Kerala Chapter and IITMK organized the event: “IEEE CASIF Open-Source Chips Movement”.



Section Activities Report

Program: Seasonal School-Applications of AI in Circuit Education at ParkCenter, Technopark Phase 1 (Digital University Kerala), on 18 December 2024

IEEE Seasonal School on Applications of AI in Circuit Education was conducted at Technopark Phase 1. The event was well attended by college students and teachers from different parts of Kerala.



Program #53: IEEE CASS Kerala Chapter AGM

The Annual General Body Meeting of IEEE CASS Kerala Chapter was conducted at 4:30 pm at Technopark Phase 1. The report of activities conducted on 18 Dec 2024 was presented to the members. The volunteers who contributed to IEEE CASS Kerala Chapter were appreciated during the meeting.



Communications Society

Over the past quarter, the IEEE ComSoc Kerala Chapter has actively engaged in a variety of events aimed at fostering growth and participation among our student members and volunteers. The ComSoc Kerala and San Diego Chapters have been jointly recognized with the IEEE ComSoc Outstanding Sister Chapters Award. Each chapter has been granted a funding of US \$500.

1. 6G & Beyond on 16th Nov 2024

The 6G & Beyond was a collaborative effort between the IEEE Communications Society Kerala Chapter and the IEEE ComSoc San Diego Chapter. The event focused on the future of wireless communication, particularly



the emerging 6G technology. The summit featured talk sessions like keynote sessions, technical talks in different fields of 6G technology. The Keynote address was delivered by Dr. Ashutosh Dutta (Chair, Future Networks, IEEE Industry Open RAN). The experts discussed the latest advancements in 6G, including its technical aspects, potential applications, and societal impact.

Dr. Ashutosh Dutta delivering keynote address



Control System Society

As a part of IEEE CSS day 2024 celebration, IEEE CSS Kerala chapter has organized two events in the month of October 2024. The first event was an invited Talk on "Technology trends in control and system design for automotive traction inverters" organized at Amrita Vishwa

Vidyapeetham, Kollam on 25 Oct 2024. The resource Person was Mr. Aravind Ramesh Chandran, System Engineer, Valeo Power Division, Germany.

The second event organized as a part of IEEE CSS Day 2024 celebration was a technical Talk, at NIT Calicut on 28 Oct 2024.

A technical Talk on "Deregulated power system planning and control" was organized at Amrita School of Engineering, Amrithapuri, Kollam on 01 Nov 2024 and the session was handled by Dr. Vivek Mohan, Assistant Professor, NIT Calicut.



A technical Workshop on “Introduction to fractional modelling and controllers” was organized at College of Engineering Thiruvananthapuram from 13-14 Dec 2024.

Resource person: Dr. Elizabeth Varghese, MBCET, Thiruvananthapuram.

Computer Society

1. AKCSSC'24 The 10th edition of AKCSSC'24, organized by the IEEE Computer Society Kerala Chapter in



collaboration with the IEEE SB GEC Kozhikode, was held from 13th to 15th December 2024 at GEC Kozhikode. The event began with an inaugural ceremony which included the recital of the IEEE Code of Ethics by Ms. Neha Arun, WIC IEEE CS Kerala Chapter, followed by a welcome address by Mr. Akhil Raj, Secretary of IEEE CS Kerala Chapter.

2. Upskill

Upskill was a collaborative initiative by IEEE SB GEC Barton Hill, Trivandrum, IEEE Computer Society Kerala Chapter, and IEEE Young Professionals Kerala Section. It was conducted on 9th November 2024 at Government Engineering College, Barton Hill.

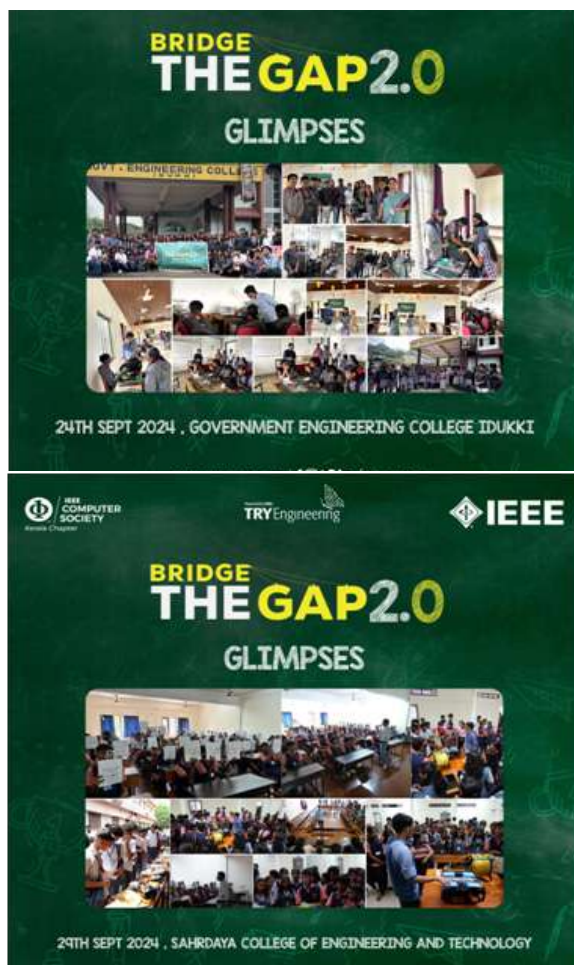


3. Elever 4.0

Elever 4.0 was a highly engaging and competitive event designed to elevate technical skills and foster collaboration among participants. Elever 4.0 featured a total of six meticulously crafted tasks, which aimed to enhance the technical expertise of participants while encouraging interaction between the IEEE CS Kerala Chapter and Student Branch Chapters (SBCs) across Kerala. Posters & Event Photographs:

4. Bridge the Gap 2.0

Bridge the Gap 2.0 consisted of a series of events that aimed to bridge the divide between academic learning



and industry practices. This initiative was conducted for school students at three different engineering colleges across Kerala. The event began on 24th September 2024 at the Government Engineering College, Idukki, where students attended a hands-on PC assembling workshop that provided practical skills and a deeper understanding of computer hardware.

5. INFORMATYKA 4.0

INFORMATYKA 4.0 was an event organised by the IEEE Computer Society Kerala Chapter in collaboration with Women in Computing that brought together innovation, learning, and collaboration.

Educational Society

PRO TALKS Episode 7

Pro Talks Episode 7, titled Advancements in Weather Prediction: Addressing Uncertainties in Meteorology, featured Dr Abhilash S., Director at the Advanced Center for Atmospheric Radar Research on 31 Oct 2024. The session focused on technological advancements in meteorology, exploring topics such as climate change



impacts, early warning systems, forecasting techniques, and big data challenges in weather prediction.



Inspire Tech

The IEEE TryEngineering initiative Inspire Tech was conducted on 22nd and 24th November 2024, engaging 45 grade 9 students, including 20 girls. The program aimed to spark interest in aerospace, electrical, and electronics engineering through hands-on learning and career guidance.

Highlights included an inaugural session by Dr Sreeja S., the Advisor of IEEE AESS SBC CET and Associate Professor, Department of Electrical Engineering, College of Engineering Trivandrum, workshops on circuit-building projects, career guidance, and a visit to the Priyadarsini Planetarium. Students explored practical applications like burglar alarms and LED circuits, fostering enthusiasm for STEM fields.

Kreepa Green Power Expo 2024

The National Technical Symposium on Renewable Energy, Green Hydrogen, and Electric Vehicles, held on November 29-30, 2024, at the Adlux Convention Centre, Kochi, was organized by KREEPA and IEEE Kerala Section in collaboration with the IEEE Education Society

Research Papers Presentation

The IEEE Education Society Kerala Chapter demonstrated remarkable achievements at the IEEE TALE 2024 Conference, held from December 9–12, 2024, at the Manipal Institute of Technology, Bengaluru..



PRO TALKS Episode 8

ProTalks Episode 8 - Bridging Engineering and Advocacy: A Researcher's Journey in Climate Action was held on December 28, 2024, at 7:00 PM IST via Google Meet, with undergraduate students as the primary audience, including both IEEE and non-IEEE participants.





Geoscience & Remote Sensing Society

- **IEEE Day Event 2024-Smart-D**

As part of IEEE Day, the IEEE GRSS Kerala Chapter had organized a panel discussion followed by focused insights and interactive session on October 1, 2024 from 3 pm to 4.30 pm at the council hall, IIST.



- **IEEE GRSS SYW Congress on November 7, 2024**

IIST GRSS students branch participated in the IEEE GRSS Student, Young Professional, and Women Congress (GRSS SYW) organized by the IEEE SB KLH (STB99212) on November 7, 2024 at the KL University, Hyderabad.

GIS day celebration: Drone Workshop on UAV Data Acquisition and Processing and Lecture on Opportunities and Challenges in GIS Industries.

- **InGARSS 2024**

IEEE GRSS Kerala Chapter student members participated in the 2024 IEEE India Geoscience and Remote Sensing Symposium (InGARSS 2024) at the NIT Goa, from December 2-5, 2024.

IEEE GRSS Workshop on Smart Solution for Disasters: AI and Remote Sensing in Action

as part of the International Conference on Tsunami Risk Reduction and Resilience (ICTR3) on 15 December 2024.

- **Talk on "Discovering and Controlling the Knowledge of Diffusion Model"**

The IEEE GRSS Kerala Chapter organized an online talk titled "Discovering and Controlling the Knowledge of Diffusion Model" on December 30, 2024

Robotics and Automation

Skillforge - Robotics for School Students [Prayana'24]

The IEEE Robotics and Automation Society (RAS) Kerala Chapter organized an enlightening session titled "SKILLFORGE - Robotics for School students" as part of the PRAYANA series on October 18, 2024, at St. Joseph's College of Engineering and Technology (SJCTET), Palai.





Inauguration Ceremony

The last quarter of 2024 was a period of intense reflection and strategic planning for the IEEE Robotics and Automation Society (RAS) Kerala Chapter. With these insights, the SLT actively planned key upcoming events, including the All-Kerala Robotics and Automation Society Student Conclave 3.0 and the PRAYANA Wrap-Up Event. The conclave aims to be a landmark gathering of robotics and automation enthusiasts, offering hands-on workshops and expert talks.

Signal Processing Society

She Heritage

The IEEE SPS Kerala Chapter successfully organized SheHeritage, a one-day event aimed at empowering women in technology and promoting sustainable development. Held at the College of Engineering, Attingal, the event drew 140 attendees, including students, professionals, and IEEE members.

The event began with an inaugural address by Dr. Manju S. Nair, Project Director at High Thrust Electric

Propulsion (HEP), who emphasized the importance of inclusivity in technology. Reshna, Chair of IEEE SPS Kerala Chapter, and Anoushka, WIE Coordinator, highlighted IEEE's mission and professional growth opportunities. Two talk sessions followed:

Priya Nair discussed challenges and opportunities for women in engineering, while Dr. Nair spoke on advancements in electric propulsion and sustainable

development. Gregory Kurien and Anoushka conducted a membership development session, promoting the benefits of IEEE membership. An Idea Pitching Competition focused on sustainable development solutions, with the winning team awarded a prize pool of INR 2000.

SheHeritage was a resounding success, offering a platform for knowledge exchange, innovation, and collaboration, while reinforcing IEEE SPS Kerala Chapter's commitment to empowering women in engineering and fostering sustainability.

Hack4good



The Hack4Good 24-hour Hackathon, organized by IEEE SPS Kerala Chapter in collaboration with NIT Calicut SB, was held as a satellite event of ICASSP 2025. The event took place from December 28 & 29, 2024, at NIT Calicut and was sponsored by IEEE Humanitarian Technologies.

The hackathon was inaugurated by Sameer Ali, IEEE R10 Regional Coordinator, who set the stage for an exciting and innovative event. Around 35 teams, with a total of 160 participants from across the country, took part in the event. The competition saw enthusiastic participation from various universities and institutions, showcasing the talent and innovation of students from all over India.

The industrial partners for the event were Algata and Swap Design, who provided valuable support and resources throughout the event. A total prize pool of ₹1,00,000 was up for grabs, and participants were also offered internship opportunities, adding even more value to their experience.

Hack4Good not only provided a platform for students to showcase their skills but also contributed to their professional growth by offering meaningful career opportunities. The event ended with an inspiring closing ceremony, where the winning teams were announced and awarded their prizes.

ACHIEVEMENTS

IEEE SPS Kerala Chapter at ICIP 2024: A Proud Moment

Our esteemed professionals from the IEEE SPS Kerala Chapter—Dr. M. V. Rajesh, Mr. Thomas K. Jimmy, and Ms. Indu P. S.—were selected as volunteers for the prestigious IEEE International Conference on Image Processing (ICIP) 2024. Additionally, two distinguished members, Mr. Sarath S, Secretary of the IEEE SPS Kerala Chapter, and Ms. Aishwarya Asok, Past WiSP Coordinator, were awarded the prestigious Travel Grant to participate in ICIP 2024. The conference was held in Abu Dhabi from October 27 to October 30, 2024. This momentous occasion brought pride to the IEEE SPS Kerala Chapter and highlighted the impact of our members in the international arena.

Achievement at IEEE R10 HTC 2024 – Innovation Challenge

Our members received the prestigious award for the outstanding achievement of NaeemaZiyad, Navaneeth V. Nair, and SalihYousaf at the IEEE R10 HTC 2024 – Innovation Challenge.

Their project, titled “Visualising MRI and CT Scans Using Mixed Reality,” redefined medical imaging by introducing innovative solutions with the potential to revolutionize diagnostic and treatment methodologies. The IEEE SPS Kerala Chapter proudly acknowledges their exceptional contributions, which continue to inspire and push the boundaries of innovation within our community.

Achievement of IEEE SPS Scholarship 2024

The remarkable achievement of P. K. Harsha of MEAEC, Vengoor; SlidaSholly of MACE, Kothamangalam; and ArdraShaji of CE, Munnar, who were honored as recipients of the prestigious IEEE SPS Scholarship 2024.

Their dedication and innovation in the field of signal



processing stood out, serving as a beacon of inspiration for the academic and professional community. Their accomplishments reflected excellence and set a powerful example for aspiring leaders in technology.

IEEE SPS Kerala Chapter Honored with 2024 IEEE Kerala Section Outstanding Large Chapter Award

The IEEE SPS Kerala Chapter was honored with the prestigious 2024 IEEE Kerala Section Outstanding Large Chapter Award. This achievement reflected the collective efforts and commitment of the chapter to advancing the field of signal processing and fostering a vibrant community of professionals and enthusiasts.

This recognition served as both a celebration of past accomplishments and a motivation to achieve even greater milestones in the future.

IEEE SPS SBC FISAT Recognized as First Runner-Up in IEEE SPS High Performing Student Branch Chapter INDIA Award 2024

IEEE SPS SBC FISAT has been selected as the First Runner-Up position in the prestigious IEEE SPS High Performing Student Branch Chapter INDIA Award 2024.



The award was presented at the SPS Student Chapter Congress 2024, hosted by the IEEE SPS Gujarat Chapter.

This recognition celebrated the unwavering spirit and creative drive that defined the chapter's journey. By embracing challenges and setting new benchmarks, IEEE SPS SBC FISAT demonstrated the remarkable achievements possible when vision aligns with determined

IEEE SPS Kerala Chapter Secures Funding for "RescueLink" Project

The IEEE Signal Processing Society Kerala Chapter proudly announced receiving a grant of \$2,995 from the IEEE Humanitarian Technologies Board. This funding was awarded in response to the IEEE SPS and IEEE Tech4Good 2024 Call for Proposals for the chapter's innovative project, "RescueLink: Empowering Kerala with Affordable SOS Technology."

The RescueLink initiative aims to revolutionize emergency response systems by introducing cost-effective SOS technology tailored to address Kerala's unique disaster management needs. This project reflects the chapter's dedication to leveraging signal processing and technology for societal benefit, aligning with IEEE's mission to advance humanity through innovation.

This prestigious grant recognizes the chapter's commitment to impactful humanitarian projects and the potential of RescueLink to make a significant difference in emergency preparedness and response.

IEEE SPS Kerala Chapter Awarded Funding for Hack4Good Event

The IEEE Signal Processing Society Kerala Chapter proudly announced receiving a grant of \$4,980 from the IEEE Humanitarian Technologies Board under the IEEE HTB Events Sponsorship Packages: Tier 2. This funding was awarded to support the chapter's upcoming event, Hack4Good.

Vehicular Technology Society (VTS)

National Symposium and Innovation Competition on Renewable Energy and Electric Vehicles (EV) - National Symposium and Innovation Competition on Renewable Energy and Electric Vehicles (EV) was jointly organized

by the IEEE Joint Chapter and Edsoc in association with KREEPA during the KREEPA Expo on November 29th and 30th, 2024, at the Adlux International Convention Centre in Angamaly.

Technical Sessions: There were three technical sessions.

Innovation Competition: A total of 41 engineering colleges participated, with 10 teams shortlisted for awards. The judging committee consisted of Dr. Vinod Gopal, CEO of Nyquest Innovation Lab; Dr. Biju K., Secretary of IEEE Kerala Section; and Vasanthi V., Chair of the IEEE Joint Chapter.

Learning and AI for 6G and Beyond Networks

As part of their efforts to promote cutting-edge research and technology, the IEEE VTS Kerala Chapter conducted a webinar on the topic “Machine Learning and AI for 6G and Beyond Networks” on October 4th, 2024.

Opportunities in Vehicular Technological Field through IEEE

The IEEE Vehicular Technology Society (VTS) Kerala Chapter organized an engaging and insightful session titled “Opportunities in the Vehicular Technological Field through IEEE” on October 5th and 6th, 2024. The event was hosted at ASIET, Kalady, as part of the IEEE Kochi Hub Meet and attracted a diverse audience, including

students, young professionals, academicians, and industry experts.

The poster is for a webinar titled "Machine Learning and AI for 6G and Beyond Networks". It features the IEEE logo and the text "IEEE KOCCHI HUB MEET 2024". The main speaker is Prabin James, IEEE VTS VP SOUTH ASIA LASON, Assistant Professor, Dept. of EEL, TOCH INSTITUTE OF SCIENCE AND TECHNOLOGY. The event is titled "OPPORTUNITIES IN VEHICULAR TECHNOLOGICAL FIELD THROUGH IEEE". The webinar is on October 04 at 8:00 PM. A QR code is provided for registration at <https://bit.ly/MLandAIfor6G>. The host is Dr. M Sabarimalai Manikandan, Associate Professor, Department of Electrical Engineering, IIT Palakkad.



Kolkata Section



Reported by
Dr. Chandni Pani
Chair, NL

Name of Event: IEEE Kolkata Section Student Congress 2024

IEEE Kolkata Section organized the “Student Congress” in association with Heritage Institute of Technology, Kolkata, on 16th November 2024 at Heritage Institute of Technology. The theme of the program was “Transitioning from Student to Young Professional”

The event started with Prof. Suparna Kar Chowdhury, Chairperson of IEEE Kolkata Section delivering the welcome address and felicitating the Chief Guest, Shri. P. K. Agarwal, CEO, Kalyan Bharti Trust, Guest of Honor, Prof. Basab Chaudhuri, Principal, HITK, and the speakers Dr. Sudeendra Thirtha Koushik and Mr. Subhasankar Debsarma Biswas,

Mr. Agarwal and Prof. Basab Chaudhuri also addressed the students and encouraged them to participate in different IEEE programs.

After a short tea break, the lecture sessions started at 11 a.m. The first lecture was delivered by Dr. Sudeendra Thirtha Koushik, Founder and Chief Innovator of Innovation by Design. Dr. Koushik addressed the students on Startups and Innovations. Mr. Debsarma Biswas, Director (Generation), WBSEDCL, addressed the students on the industry’s requirements.

Prof. Suparna Kar Chowdhury, Chairperson Kolkata Section, presented mementos to the speakers.

In the concluding session, Dr. Tridibesh Nag proposed

the vote of thanks to all the dignitaries and those present in the audience.



Name of the Event: Report on Sir C.V. Raman Milestone Commemorative Lecture

IEEE Kolkata Section organized the Sir C.V. Raman Milestone Commemorative Lecture on 18th November 2024 at Dr. Triguna Sen Auditorium, Jadavpur University Campus.

The Theme of the lecture was 'Unified View of the Basic Forces' and the speaker for the event was Prof. Naresh Dadhich, Emeritus Professor, IUCAA, Pune.

The event started with Prof. Suparna Kar Chowdhury, Chairperson of the IEEE Kolkata Section delivering the welcome address. It felicitated the Chief Guest, Prof. Bhaskar Gupta, Vice Chancellor, Jadavpur University Prof. Naresh Dadhich, and Prof. Debatosh Guha Session Chair. In her address, she dwelt on the activities of the Kolkata Section and the importance of the groundbreaking research work of Sir C.V. Raman on the scattering of light waves leading to the Nobel Prize in 1930.

Prof. Naresh Dadhich delivered the prestigious 'Sir C.V. Raman Milestone Commemorative' lecture. He spoke on various aspects of the basic forces and concluded with the fact that the basic forces have a common unified platform. The session was chaired by Prof. Debatosh Guha, Past Chair of IEEE Kolkata Section.

Prof. Suparna Kar Chowdhury, Chairperson Kolkata Section, presented mementos to the guest speaker and the session chair.

In the concluding session, Dr. Tridibesh Nag proposed a vote of thanks to all the dignitaries and those present in the audience.



Name of Event: CALCON 2024

IEEE Kolkata Section organized its flagship conference CALCON 2024 on 14th and 15th December 2024 in Jadavpur University Campus. The inauguration was done in the Dr. H. L. Roy Auditorium of the Institute of Chemical Engineers. Vice Chancellor of Jadavpur University Prof. Bhaskar Gupta and Dean FET of Jadavpur University Prof. Rajib Bandopadhyay were present during the inauguration ceremony.

A total of 90 papers were presented during the two-day event. The papers received from students, research scholars, and faculty members of different Institutes in India, were from different domains of Electrical Engg., Electronics, and Communication Engg. And Computer Science and Engg. These papers were presented in twelve sessions chaired by eminent professors from institutes in and around Kolkata.

Three Keynote lecture sessions were organized during the event:

- Prof. Asif Ekbal, Professor, School of Artificial Intelligence and Data Science, IIT Jodhpur delivered a lecture on "Empathetic AI: Teaching Computers Empathy and Politeness"
- Dr. Chandrakanta Kumar, Scientist/Engineer-'G', Project Director Technology & Applications Projects Program Office, U R Rao Satellite Centre, Bangalore delivered a lecture on "Deep Space Communication Systems"
- Prof. Kishore Chatterjee, Professor of Electrical Engg., IIT Bombay, delivered a lecture on "Harvesting of Energy from Solar Photovoltaic System and its Utilization through the Grid"

WIE Affinity Group of Kolkata section organized a lively interactive program during CALCON. A keynote speech was given by Prof. Amit Konar of Jadavpur University on "Brain-Computer Interfacing" and a panel discussion was organized on "AI and Sustainability".

CALCON 2024 was sponsored by Ericsson.



Venue: Online (Google Meet)

Organizers: IEEE LMAG India Council and IEEE LMAG Kolkata Section

Title of the talk: Semiconductor Technology shaping the future

Speaker: Dr. Mousiki Kar, Associate Professor, Deptt. of ECE, Heritage Institute of Technology, Kolkata - 700107

No. of Participants: 19 IEEE Members and 6 Guests – Total 25

Summary of the Talk:

The relentless evolution of semiconductor technology has been the driving force behind transformative advancements in electronics, computing, and artificial intelligence. This talk, 'Semiconductor Technology Shaping the Future', explores the pivotal role of transistor scaling in enabling unprecedented levels of performance, energy efficiency, and device miniaturization. From the foundational principles of MOSFETs to the emergence of cutting-edge architectures like FinFETs and Gate-All-Around FETs, the talk highlights innovations that address scaling challenges such as short-channel effects, leakage currents, and thermal constraints. The discussion extends to the adoption of advanced materials, including silicon carbide, gallium nitride and



Name of the Event: THIRD LMAG Activity of IEEE Kolkata Section in 2024

Date: Thursday 28.11.2024 Time: 6 : 00 pm to 7 : 30 pm



Some participants in the online LMAG Program held on 28.11.2024

2D materials, which are reshaping the semiconductor landscape. Emerging trends in 3D integration, quantum devices, and AI-enhanced chip design are discussed, highlighting their potentials to redefine the boundaries of technology. Through real-world applications in IoT, robotics, smart cities, and next-generation AI systems, this talk demonstrates how semiconductors remain at the forefront of innovation, driving progress across industries. By blending historical milestones with future possibilities, this talk offers a comprehensive perspective on how semiconductor technologies will continue to shape the future of humanity.

Name of the Event: FDP on “Quantum Enabled Science and Technology” (QuEST)

Date and Venue of Event: December 9-13, 2024 , Online Event organized from IEM Kolkata

Technically sponsored by IEEE Women in Engineering (WIE)

Short Description of the Event (100 to 150 words):

Quantum Enabled Science and Technology (QuEST) refers to the interdisciplinary field that combines principles of quantum mechanics with advanced technology to revolutionize various industries. It involves applying quantum phenomena such as superposition, entanglement, and quantum interference to enhance computing, communication, sensing, cryptography, and other technologies.

This Faculty Development Programme (FDP) aimed to enhance the knowledge and skills of faculty members in the emerging field of Quantum Enabled Science and Technology, empowering them to contribute effectively to education, research, and innovation in this domain.” Experts from different institutions gave lectures on various topics related to the theme of the FDP.

Name of Speaker/Delegates Present with Affiliation:

- Dr.Satyanarayana. Beesette, Former scientific officer, TIFR, Mumbai
- Dr.Debanjan Konar, Senior Chief Engineer/Staff Engineer (Quantum AI) at Samsung Research (SRIB)

- Dr. Debabrato Dutta, former scientist, Bhabha Atomic Research Centre (BARC)
- Dr.Guruprasad Kar, Professor of Indian Statistical Institute (ISI), Kolkata.
- Dr.Nayana Das Researcher, LTI Mindtree





No. of Total Participants: 60

No. of IEEE Member Participated: 10

No. of Non-IEEE Member Participated: 50

Clear Image/Photograph of the Event with Proper Caption:

Name of the Event: WIE session in CALCON 2024

Date and Venue of Event: December 14, 2024 Jadavpur University

Short Description of the Event (100 to 150 words):

CALCON is the IEEE Kolkata Section flagship conference. It was organized in Jadavpur University, Kolkata on December 14-15 this year. Among the various events WIE affinity group organized its WIE session on December 14, presenting a keynote speech by Prof. Konar who is an expert on Brain-Computer Engineering and is an eminent professor of Jadavpur University. WIE session also had a panel discussion on the topic "AI and Sustainability" where experts from various domain shared their thoughts on how AI is changing our lives and how this technology will be sustained in the future. Audience could know how AI has changed space technology in the domain of remote sensing, how AI affects has changed some social issues and how AI is helping us with preliminary diagnosis of diseases in remote places where doctors are absent. Distinguished panelists and moderator made the discussion very informative and though provoking.

Name of Speaker/Delegates Present with Affiliation:

- Prof. Amit Konar, Professor, Dept. of ETCE, Jadavpur University
- Prof. Sheli Sinha Chaudhuri, Professor, Dept. of ETCE, Jadavpur University
- Ms. Sudeshna Mazumdar, IBM
- Dr. Arundhuti Mishra, Retd. Group director, SAC, ISRO
- Dr. Debabrata De, Cardiologist, R.N.Tagore Hospital
- Ms. Sahana Bhowmik, Director, DITO India

No. of Total Participants: 40





No. of IEEE Member Participated: 35

No. of Non-IEEE Member Participated: 05

Clear Image/Photograph of the Event with Proper Caption:

Event Title: 2024 IEEE 7th International Conference on Condition Assessment Techniques in Electrical Systems (IEEE CATCON 2024)

The IEEE CATCON conference sequel, initiated in 2013 in Kolkata, has established itself as a premier platform for advancing knowledge in condition assessment techniques for electrical systems. After six successful editions across various institutions in India, the seventh edition of IEEE CATCON was held at Jadavpur University, Kolkata, India, from November 22 to 24, 2024. This year, the conference was conducted offline, allowing

participants to engage directly and meaningfully in discussions and deliberations.

A grand start to IEEE CATCON 2024.

Conceptual exchange at the tutorial session.

The conference commenced with a keynote speech by Mr. Dinesh K Singh, Executive Director (System) of Damodar Valley Corporation, whose insights set a compelling tone for the event. His address highlighted the challenges and innovations in system reliability and condition monitoring.

IEEE CATCON 2024 received 141 paper submissions, of which only 61 were accepted, reflecting an acceptance rate of 43%. The rigorous review process and the highly specialized focus of the conference ensured that the technical program maintained its hallmark of quality. These papers were presented across 12 technical sessions, structured around the following four tracks:



Insights and innovations unfold in the technical session. A delightful glimpse of camaraderie at the conference lunch.

(I) Condition Assessment of Electrical Equipment and Machines – chaired by Prof. L. Satish, IISc Bangalore, (II) Condition Monitoring Applications using AI, Machine Learning, and Allied Techniques – chaired by Prof. Amitava Chatterjee, Jadavpur University, (III) Condition Monitoring Applications for Industry, including Power Systems and Intricate Electrical Systems – chaired by Prof. C. C. Reddy, IIT Ropar and (IV) Advanced Condition Assessment Applications involving Interdisciplinary Research – chaired by Prof. Rajarshi Gupta, University of Calcutta.

Practical insights shared in the industry lecture. An eminent professor leads the plenary session.

A significant highlight of CATCON 2024 was the remarkable industry participation. The conference had

15 leading companies as sponsors as well as industry partners, viz. Damodar Valley Corporation, Larsen & Toubro Ltd., Exide Industries Ltd., Power Grid Corporation of India Ltd., NTPC Ltd., Megger India Pvt. Ltd., Doble Engineering Pvt. Ltd., Omicron Energy Solutions Pvt. Ltd., Magnewin Energy Pvt. Ltd., Polycab India Ltd., Shreem Electric Ltd., MRTG Power Diagnostic Tests Pvt. Ltd., Neo Tele-Tronix Pvt. Ltd., Physical Acoustics India Pvt. Ltd., and Rectifiers & Electronics Pvt. Ltd. The active involvement of these industries/power utilities provided invaluable real-life perspectives, fostering a vibrant exchange of ideas between academia and industry.

In addition to the technical sessions, IEEE CATCON 2024 featured two tutorials, three plenary sessions, and four dedicated industry sessions. The two highly engaging tutorials were led by Prof. Nandini Gupta from IIT Kanpur and the other by Dr. Avik Bhattacharya and Dr. Rishiraj Sarker from IIT Roorkee, joined by Dr. Shubhajit Pal from UEM Jaipur and Mr. Sujit Kumar Pathak from CESC Ltd., focusing on tangible applications of condition monitoring. The plenary talks by eminent speakers such as Dr.



Debdoot Sheet and Prof. Suman Chakraborty from IIT Kharagpur and Mr. M. K. Srivastava, former Executive Director (Engineering), NTPC Ltd., offered participants a wealth of knowledge and inspiration. The tutorials and industry sessions brought practical insights, particularly emphasizing the applications of cutting-edge technology in condition monitoring.

An engaging gathering after the DEIS YP Lecture. Connections strengthened at the DEIS YP Dinner.

An inspiring lecture was delivered on the evening of Day 1 by Prof. C. C. Reddy of IIT Ropar, which was followed by an encouraging distribution of DEIS YP diaries. The evening culminated in a gala DEIS YP dinner, fostering networking and camaraderie among participants. On Day 2, a grand Conference Dinner was hosted at the Princeton Club, Kolkata, offering a vibrant social gathering for attendees to interact and connect.

Bridging academia and commercial advancements at the industry exhibition. Closing with gratitude and aspirations at the valedictory session.

The event concluded with a valedictory session in the afternoon of Day 3, leaving participants inspired for



future advancements in the field. IEEE CATCON 2024 not only set a benchmark for collaboration and knowledge-sharing but also attracted international participation from Asia, Europe, and Australia. The baton for organizing the next edition of IEEE CATCON was handed over to IIT (ISM) Dhanbad, India, in the valedictory session.



Cherished memories captured in the closing group photo.



Dr. K. Porkumaran
Section Chair

Madras Section

Webinar on Technical Education in the Industry 5.0 Era

Panimalar Engineering College in collaboration with Madras Section and in association with IEEE Computer Society, IEEE Women In Engineering, Institutions Innovation Council and IEEE presented a webinar titled Technical Education in the Industry 5.0 Era on 09.10.2024 at 6 PM (IST) as part of the IEEE Day 2024 celebrations.

IEEE MADRAS SECTION
PANIMALAR ENGINEERING COLLEGE
Proudly Presents
IEEE DAY 2024
Webinar on
"TECHNICAL EDUCATION IN THE INDUSTRY 5.0 ERA"

Guest Speaker: Dr. TOM MURAD
President & Board Chair - IEEE Canada, Director - IEEE Region 7, Adjunct Professor, C-Level Engineer & Technology Leader

Guest Speaker: Dr. K. PORKUMARAN
Chairman - IEEE Madras Section, Principal & Senior Professor - Sri Krishna College of Engineering and Technology

Date: 09 October 2024
Time: 6:00 PM (IST)

Join the Meet @ meet.google.com/whu-mtz-htoc

REGISTER NOW @ <https://bit.ly/IndustryEduEra>

Content: Dr. S. Rajakumar HOD / ECE

Staff Coordinator: Mr. M. Arun AP / ECE

Student Coordinators: Shreenu, Dhruv Singh R, Poojanika P



The guest speakers, Dr. Tom Murad, President & Board Chair of IEEE Canada, Director of IEEE Region 7, Adjunct Professor, C- Level Engineer & Technology Leader along with Dr. K. Porkumaran, Chairman of IEEE Madras Section, Principal & Senior Professor of Sri Krishna College of Engineering and Technology provided a valuable session for participants to delve into the evolving landscape of Technical Education in the Industry 5.0 Era, uncovering the extensive possibilities for aspiring professionals. Attendees explored essential elements of the sector, including cutting-edge educational methodologies, hands-on training, and modern production practices. Engaging discussions fostered an environment of collaboration, allowing participants to share their insights and experiences

Webinar on Innovation Infrastructure with Digital Twins: A Forward-Looking Vision

IEEE SEATTLE SECTION
IEEE MADRAS SECTION
PANIMALAR ENGINEERING COLLEGE
Proudly Presents
IEEE DAY 2024
Webinar on
INNOVATING INFRASTRUCTURE WITH DIGITAL TWINS "A FORWARD-LOOKING VISION"

Guest Speaker: Mr. Sanjay Samuel
Chair, IEEE Seattle Section, System Design & Integration Manager, Sound Transit, Seattle, Washington, United States.

Date: 15 October 2024
Time: 8:00 PM (IST)

Join a Meet @ meet.google.com/whu-mtz-htoc

REGISTER NOW @ <https://bit.ly/InnovationInfrastructure>

Content: Dr. S. Rajakumar HOD / ECE

Staff Coordinator: Mr. M. Arun AP / ECE

Student Coordinators: Subhanshi P, Malavika, Mukana M, Poojanika P



IEEE SB Panimalar Engineering College in association with IEEE Madras Section, IEEE Seattle Section and IEEE Organized a webinar on Innovation Infrastructure with Digital Twins: A Forward-Looking Vision as a Part of the IEEE Day Celebration 2024 by Mr. Sanjay Samuel, Chair – IEEE Seattle Session, System Design & Integration Manager, Sound Transit, Seattle, Washington, United States on 15.10.2024 at 8 PM(IST). Mr. Sanjay Samuel highlighted how this technology enhances decision-making, optimizes resources, and supports sustainable growth. He also emphasized the future potential of digital twins to bridge physical and digital environments.

HACKELITE 2.0

Panimalar Engineering College, in collaboration with IEEE Madras Section, IEEE TEMS Madras Chapter organized Hackelite 2.0—an exciting 24-hour online hackathon dedicated to fostering creativity and innovation. This flagship event, sponsored by IEEE TEMS Madras Section, provided participants with a unique platform to collaborate, solve problems, and showcase their technical and storytelling skills.

The hackathon kicked off on October 19 at 6 PM to October 20 at 6 PM, with participants diving into problem statements across 6 diverse domains. Throughout the 24 hours, participants tackled challenging problem statements, testing their technical abilities

and problem-solving skills. This collaborative and problem-solving focus created a vibrant atmosphere that encouraged participants to push the boundaries of what they could achieve.

After a careful evaluation, Team CTRL +N and team Glucomate from Panimalar Engineering College was declared the winner, recognized for her solution's clarity, creativity, and insightful presentation. The jury, consisting of Ms. Kamaleeshwari from the Advisory Committee member of IEEE PIT SB and Ms. T.D. Subha Assistant Professor, department of ECE at R.M.K. Engineering College, praised the participants for their innovation and ingenuity.

The event was further enhanced by the presence of several distinguished guests: Mr. Mithresh G P, an Associate Software Engineer at Prodapt Solutions; Mr. Arun M, Chairman of IEEE Madras Young Professionals; Mr. Ashvanth B, Vice Chairman of IEEE Madras Young Professionals; Mr. Sreekanth R, Executive Committee Member of IEEE Madras Young Professionals; Mr. Abdul Haldik M I, Secretary of IEEE Madras Young Professionals; and Ms. Indhumathi G, Treasurer of IEEE Madras Young Professionals. Their insights and encouragement provided additional motivation and inspiration for all participants.

Hackelite 2.0 underscored the power of collaborative problem-solving and innovation, inspiring participants to leverage creativity and technical skills to shape the solutions of tomorrow.



AISYWLC 2024

AISYWLC is the IEEE India Council's annual flagship event, providing a platform for young professionals, academicians, scholars, entrepreneurs, and technocrats to connect and share ideas. This year, AISYWLC 2024 was held in collaboration with the IEEE Madras Section at the College of Engineering, Guindy, Anna University, Chennai, on December 7–8, 2024. The event fostered leadership, innovation, and professional growth through various impactful sessions, showcasing the collaborative spirit of the Madras Section.

(For the detailed coverage of AISYWLC 2024 with photographs refer pages from 114)

IEEE WOMEN IN ENGINEERING AFFINITY GROUP MADRAS SECTION

IEEE Women in Engineering International Leadership Summit Chennai 2024, October 3-5, 2024

The IEEE Women in Engineering International Leadership Summit Chennai 2024, hosted by the IEEE WIE Madras Section Affinity Group, unfolded with high energy from October 3-5, 2024. This three-day summit celebrated diversity, innovation, and leadership, kicking off with an inspiring inauguration ceremony on October 3, 2024. Esteemed dignitaries graced the stage, including the Guest of Honour, Ms. Soumya A, Deputy Commissioner, GST Policy Wing, Department of Revenue, Ministry of Finance, Government of India, alongside Mr. Mohanbabu Balachandran, Technology Head & VP - IT at Mr. Cooper; Dr. P. Sakthivel, Vice Chair-Academics, IEEE Madras Section; Dr. R. Velraj, Former Vice Chancellor, Anna University; Dr. K. S. Easwarakumar, Dean, College of Engineering, Guindy, Anna University; and Dr. T. Sree Sharmila, Program Chair of IEEE WIE ILS Chennai and Chair of

IEEE WIE Madras Section. An IEEE Day celebration added further joy, underscoring the global impact of technology and innovation.

The IEEE WIE ILS Chennai 2024 was a remarkable success, made possible by the invaluable support of our sponsors, partners, and dedicated volunteers. The Sponsors, Mr. Cooper and IEEE Women in Engineering, were instrumental in empowering the summit. The event was further enriched by our Knowledge Partner, Infosys TechCOHere, and the unwavering support of the Host Partner, the IEEE Student Branch of College of Engineering Guindy, Anna University, played a fundamental role in the smooth and successful execution of the summit.

Day 1: October 3, 2024

The opening day featured insightful talks by leaders in technology. Ms. Jinu George, Senior Operations Manager (Data) at Amazon Web Services, delivered a powerful keynote on "Resilience at the Workplace". Her talk stressed the importance of adaptability and emotional intelligence in handling workplace challenges. Ms. Jinu shared practical strategies for fostering resilience to excel in dynamic environments.

Following her, Ms. Lakshmi Balakrishnan, VP-Product Management at Mr. Cooper, presented on "Product Building". Drawing from her experience, she outlined the lifecycle of product development—from ideation through execution. Emphasizing customer-centric design and agile methodologies, she provided attendees with insights into building products that meet market demands.

A standout panel, "Empowering Digital Innovators of Tomorrow", brought together prominent voices from technology and talent management. The panel included Mr. Victor Sundararaj, Associate Vice President at Infosys Limited; Dr. Ramalatha Marimuthu, Director of iExplore Foundation; Ms. Suganya Veeraraghavan, AVP-Talent Acquisition at Mr. Cooper; and Meenakshi Subramanian, Senior Principal Architect at Mr. Cooper, with moderation by Dr. Nirmal, an Execom Member of IEEE Madras Section.

They discussed how interdisciplinary skills and collaboration between technology and leadership are essential to drive digital innovation.

An engaging YP session wrapped up the first day, featuring panelists Mr. Arun M, Chair of IEEE MAS YP; Mr. Aravindhan, Past Chair of IEEE MAS YP; Mr. Abdul Halik, Secretary of IEEE



MAS YP; and Ms. Indhumathi, Treasurer of IEEE MAS YP. This interactive session fostered connections and shared insights for young professionals to excel in their careers while contributing to the IEEE community.

Day 2: October 4, 2024

Day 2 began with a keynote from Mr. GowthamVudaigiri, AVP-Engineering at Mr. Cooper, on "Transforming Lives with Tech Innovations (Tech for Good)". He highlighted the role of engineering in addressing societal challenges, sharing real-world examples of how technology is being leveraged to improve health, education, and infrastructure, while emphasizing the importance of purpose-driven innovation.

Mr. Srikanth Chandrasekaran, Country Head & Sr. Director - IEEE India, presented a session titled "Why Standards Matter:

Importance and Impact of IEEE SA Standards on Emerging Technologies". Following this, Dr. Celia Shahnaz, Chair of the IEEE WIE Committee and Professor at BUET, highlighted AI's tremendous potential to empower women, drive progress, and create a safer environment.

The breakout sessions were interactive and thematic. The "StartUp-Spirit" session titled "Start-up Strategies: Idea to Execution" featured Ms. R. Radha, Founder & CEO of Spikra Private Limited; Dr. Ramalatha Marimuthu, Director of iExplore Foundation; and Dr. Arthi Ram, Head of Operations at MCC MRF Innovation Park, with moderation by Mr. Aravindhan Anbazhagan. They shared insights into entrepreneurial journeys from concept to execution. Meanwhile, the "EmpowerED" session, titled "The Power of Women in Technology and Business," explored fostering diverse, inclusive workplaces. Speakers included Ms. Lakshmi Balakrishnan, VP-Product Management at Mr. Cooper; Ms. Suganya Veeraraghavan, AVP-Talent Acquisition at Mr. Cooper; Ms. Priya Sathish Dev, Senior Delivery Manager at Infosys Limited; and Dr. S. Radha, Treasurer of IEEE Madras Section & Vice Principal of SSN College of Engineering, with Dr. Brindha, Track Chair and Execom Member of IEEE Madras Section, moderating the discussion.

Later, the ILS featured an inspiring keynote from Mr. Mohanbabu Balachandran, Head & VP - IT at Mr. Cooper, on "AI and Tech for Good – Shaping a Better Future". He emphasized the role of AI



in optimizing processes and creating sustainable solutions for a brighter future.

Ms. Jayalakshmi, VP-Engineering at Mr. Cooper, led a session on “Digital Transformation”, discussing the shift from traditional operations to data-driven, technology-centric processes. Mr. Chandra Nandakumar, Associate VP at Infosys Limited, spoke on “Empowering Women in Engineering and Technology”, addressing both challenges and opportunities. Dr. Edward Au, Senior Expert at Huawei Technologies Canada and Chair of the IEEE TAB Committee on Standards, delivered a compelling session on the “Importance of Standards and Their Impact on Academia and Industry”.

To promote well-being, Dr. S. Jayaprakash, Principal of Vethathiri Maharishi College of Yoga, led a yoga session that introduced simple, effective techniques participants could perform while seated.

The day concluded with vibrant cultural performances that celebrated the diversity and creativity of the participants and members, marking an uplifting end to an enriching day.

Day 3: October 5, 2024

On the final day, participants engaged in Idea and Poster Presentations, showcasing innovations in technology and problem-solving. The juries provided valuable feedback, emphasizing the importance of creativity and real-world applicability.

Dr. Dilrukshi Gamage from the University of Colombo School of Computing delivered an impactful talk titled “From Barriers to Breakthroughs: How Women in STEM Lead the Charge in a Digital World”, discussing the challenges women face and the opportunities they create in STEM fields. Following this, Mr. Hari Krishnan, Director and Core Team Co-founder of A&H Trajectory Acceleration at Antano&Harini Legacy Accelerators, shared insights on legacy building, encouraging attendees to take charge of their personal and professional paths through strategic decision-making.

The summit concluded with a valedictory ceremony, graced by distinguished guests including Ms. Vanitha Venugopal, Chief Executive Officer of the Tamil Nadu Technology Hub (iTNT); Mr. Mohanbabu Balachandran, Technology Head & Vice President - IT at Mr. Cooper; and Mr. Madhanraj J, Associate Vice President at Infosys Limited.

They expressed their gratitude to the volunteers and participants, highlighting the role of leadership in advancing technology for the betterment of society; and Dr. T. Sree Sharmila, Program Chair, delivered the vote of thanks and honored the volunteers.

The IEEE WIE ILS Chennai 2024 witnessed enthusiastic participation, with 120 attendees, 50 dedicated volunteers, and 40 esteemed speakers contributing to the event’s success. The summit received highly positive feedback from participants, who appreciated the valuable insights, engaging sessions, and networking opportunities it provided. The collaborative efforts



of the speakers, volunteers, and organizing team fostered an inspiring and impactful experience for all.

As a positive outcome of the event, Mr. Harikrishnan joined as an IEEE and WIE member, inspiring many students and professionals to embark on their new journey with IEEE.

10th IEEE International Women in Engineering (WIE) Conference on Electrical and Computer Engineering 2024 (IEEE WIECON-ECE 2024)

IEEE Madras Section WIE Affinity Group, IEEE Bangladesh Section, and IEEE Bangladesh Section WIE Affinity Group, have collaboratively organized the 10th IEEE International Women in Engineering (WIE) Conference on Electrical and Computer Engineering 2024 (IEEE WIECON-ECE 2024). This prestigious

conference will be hosted at the College of Engineering, Guindy, Anna University, Chennai, India, on December 6-7, 2024.

The event featured keynote addresses by renowned speakers from diverse fields, including: Dr. Sherin M. Youssef, Arab Academy for Science & Technology, Egypt; Dr. Shayla Islam, UCSI University, Malaysia; Dr. Gita Pendharkar, Monash University, Australia; Dr. Manisha Guduri, University of Louisiana at Lafayette, USA; Dr. Ir. Neeli Prasad, Smart Avatar B.V., Netherlands; Dr. Fabia Farlin Athena, Stanford University, USA; Dr. Dhivya Sampath Kumar, Singapore Institute of Technology, Singapore; Dr. Adil Usman, Varroc Engineering Limited, Pune, India.

The conference saw participation from five countries, including India, Bangladesh, USA, Norway, and South Korea. Papers were

Section Activities Report

submitted by researchers from prominent institutions such as the Texas State University, USA, Prairie View A & M University, USA, West Virginia University, USA, Arkansas State University, USA, University of Chittagong, North South University, Norwegian University of Science and Technology, Norway, Kyungpook National University, South Korea, Chittagong University of Engineering and Technology, National Institute of Technology

(Puducherry and Trichy), Indira Gandhi Centre for Atomic Research (IGCAR), Amrita Vishwa Vidyapeetham, and Jadavpur University, among others.

IEEE WIECON-ECE 2024 promises to provide a significant platform for advancing research, fostering innovation, and celebrating the achievements of women in engineering worldwide. Over 250 participants benefited from this conference.



IEEE MADRAS YOUNG PROFESSIONALS

Volunteer leadership and training program

The IEEE Volunteer Leadership Training Program, popularly known as VOLT 2024, took place on October 19, 2024, at Grootan Technologies, Prince InfoCity Phase I, Perungudi, OMR, Chennai. This impactful one-day event was organized by IEEE Young Professionals Madras Section in collaboration with the IEEE Madras Section Industrial Committee and IEEE Education Society Madras Section. Aimed at empowering and inspiring future leaders, VOLT 2024 featured a series of engaging talks and interactive sessions with distinguished professionals from both academia and industry. The IEEE Volunteer Leadership Training Program, popularly known as VOLT 2024, took place on October 19, 2024, at Grootan Technologies, Prince InfoCity Phase I, Perungudi, OMR, Chennai. This one-day event was organized by IEEE Young Professionals Madras Section, in collaboration with the IEEE Madras Section Industrial Committee and IEEE Education Society Madras Section, with the aim of empowering and inspiring future leaders.

The program featured a series of insightful sessions and interactive talks led by distinguished professionals from both academia and industry. The event began with an inauguration speech by Dr. Hari Prakash R, Secretary of the IEEE Madras Section and Additional Registrar at Bharath Institute of Higher Education and Research, who emphasized the importance of volunteerism within IEEE and encouraged participants to maximize their learning experience.

The session highlights included “Volunteer to Leadership Enrichment” by Mr. Arun Kumar, Founder of Career Reinventors and a Career Growth & Performance Coach, who discussed the pathway from volunteering to leadership within IEEE. Mr. Elancheiyen R, Founder, SocialZog emphasized the significance of continuous growth, resilience, and a proactive mindset in leadership. Mr. Navaneethakrishnan, Chair of the IEEE Madras Education Society and Director at Metasage Alliance, spoke on “Empowering IEEE Education Activities & Initiatives,” showcasing IEEE’s resources for educational outreach.

Dr. Ramalatha Marimuthu, Chair of the IEEE Madras SSIT Society and Director of IExplore Foundations, delivered an inspiring session on “Harnessing IEEE SIGHT/Humanitarian Activities,” highlighting IEEE’s impact on humanitarian projects. Mr. Abdul Halik, Secretary of IEEE Madras Young Professionals and Operations Lead at Forte Consulting, discussed “Elevating IEEE Branding and Membership Dynamics,” sharing strategies for strengthening IEEE’s brand and membership engagement. Mr.



Section Activities Report

Ashvanth B, Vice Chair of IEEE Madras Young Professionals and Senior Associate at MassMutual India, presented “Leveraging Essential Tools for Volunteering,” focusing on tools for project management and effective volunteering. Mr. Arun M, Chair of IEEE Madras Young Professionals and Assistant Professor at Panimalar Engineering College, explained the structure and benefits of IEEE affinity groups in his session, “Unveiling IEEE Affinity Groups & Their Functions.” The program concluded with an interactive session, “An Interactive Chat with Lieutenant YP,” led by Mr. Srikanth, IEEE Senior Member and YP Execom Member, who shared his leadership experiences, motivating participants to pursue leadership roles with confidence.

The valedictory speech was delivered by Dr.Porkumaran K, Chairman of the IEEE Madras Section and Principal & Senior Professor at Sri Krishna College of Engineering and Technology.



PES NEXUS

IEEE Student Branch of Jeppiaar Engineering College In Collaboration with IEEE MAS Young professionals Successfully Organized and conducted the ‘PES A regional-level online symposium centered around the theme the Paul to Sustainable Energy.’ This event spearheaded by the Power and Energy Society (PES). featured a TECHNICAL QUIZ” and took place on the 9th of September, 2024, through Google Meet. The Interactive session was hosted on quiz.com. engaging the participants in a dynamic and competitive environment.

A total of 40 participants actively took part in this symposium, showcasing their knowledge and Insights on sustainable energy practices. The event fostered meaningful discussions and idea-sharing on the future of clean energy with a strong emphasis on



innovative solutions and sustainability In the energy sector. The symposium concluded successfully, leading participants with a deeper understanding of the pressing need for sustainable energy initiatives and inspiring further involvement in the energy transition.

SIGNOX 3.0

The IEEE Student Branch of Jeppiaar Engineering College in collaboration with IEEE Madras Young Professionals and Signal Processing Society of IEEE SB JEC, successfully conducted “SIGNOX 3.0” on 6th November, 2024 at the Library Seminar Hall of Jeppiaar Engineering College. The event aimed to foster technical knowledge and innovative thinking among students.

The program commenced with an inauguration ceremony hosted by Kiran and Priyanka, student volunteers, from 10:30 AM to 11:00 AM. The event was graced by the presence of Dr. K. Senthil Kumar, Principal, and Dr. J. Jebastine, Vice Principal, who delivered encouraging speeches that motivated the participants.

Following the inauguration, a technical PPT session was presented, evaluated by judges Mr. Sakthivel and Dr. Jagan, both Assistant Professors of the ECE Department. The judges were felicitated by Dr. K. Senthil Kumar for their valuable contributions. The event continued with a quiz competition, which was emceed by Ms. Sreenidhi, Secretary of the EMBS Society, featuring 30 teams of 3-4 members each. After the first round, 20 teams advanced to the second round, held after lunch. Winners and runners-up were selected based on their performance.

Parallel to the quiz, an innovative thinking competition encouraged participants to showcase their creativity and problem-solving skills.

The valedictory session, emceed by Sugan and Keerthika, student volunteers, began at 2:30 PM. The event concluded with the Principal and Vice Principal presenting prizes to the winners and runners-up. The vote of thanks was delivered by Ms. Jenta, the event organizer, acknowledging the efforts of everyone who contributed to the event's success.

With engaging sessions, thought-provoking competitions, and enthusiastic participation, SIGNOX 3.0 was a grand success, providing a platform for students to demonstrate their technical and innovative prowess.

Hack-O-Holics 5.0

The IEEE Student Branch of Jeppiaar Engineering College, in collaboration with the IEEE Madras Section Young Professionals, proudly hosted the 5th edition of its prestigious 24-hour National Level Hackathon, "Hack-O-Holics 5.0", on the 12th and 13th of November 2024. The event, held at the Library Seminar Hall of Jeppiaar Engineering College.

The event commenced with an inauguration ceremony on the 12th of November 2024, from 10:30 AM to 11:00 AM. The session was emceed by IEEE SB JEC student volunteers Mukesh and Samvirtha. The ceremony began with the rendition of "Tamil Thai Vazhthu", symbolizing cultural pride and respect.

The highlight of the inauguration was the official launch of Hack-O-Holics 5.0, led by the Chief Guest, "Mr. Vivek Mohandass",





Technical Lead in Data Integration & API Management at AstraZeneca, Chennai. Joining him were the distinguished Guests of Honor, “Ms. Akila Rajagopal”, Executive Industry-Academia Collaboration, IIT Madras Research Park, “Mr. Nivas Ramachandra”, Director at Spendflo, USA; and Ms. Glanee Rose S, Project Manager at AstraZeneca. The guests were warmly felicitated by Dr. K. Senthil Kumar, Principal, and Dr. J. Jebastine, Vice Principal, who delivered motivational speeches encouraging participants to unleash their creativity and technical prowess.

The 24-hour Hackathon began promptly at 11:00 AM on the 12th of November 2024 and concluded at 11:00 AM on the 13th of November 2024.

The valedictory session of Hack-O-Holics 5.0 was held at 1:00 PM on the 13th of November 2024, hosted by Mukesh and Samvirtha. The Chief Guest, Mr. Elanchezhiyan Ragavan,

Founder & CEO of Social Zog, was honored by Dr. K. Senthil Kumar, Principal, and Dr. J. Jebastine, Vice Principal.

The event concluded with a vote of thanks delivered by Ms. Jeevitha Ramachandran, Chair of IEEE SB JEC, marking the grand success of “Hack-O-Holics 5.0”.

IEEE Computer Society Madras Chapter

Inauguration of IEEE SB - The Role of Professional Societies in Career Progression

IEEE Computer Society Madras Section and Rajalakshmi Institute of Technology presented a session on “The Role of Professional Societies in Career Progression” on 04.10.24 as the part of Inauguration of IEEE SB. The session focused on the significant role professional societies play in shaping careers, especially in the fast-evolving field of ICT. It emphasized the growing disparity





between industry expectations and the traditional educational system, highlighting the need for individuals to bridge this gap through active engagement in professional organizations like IEEE.

Participants learned about the various benefits these societies offer, including access to cutting-edge resources, networking opportunities with global professionals, and skill-building through workshops and certifications. The session also addressed the importance of staying updated with emerging technologies to thrive in today's VUCA (volatile, uncertain, complex, ambiguous) environment.

The event encouraged students and young professionals to leverage the vast opportunities provided by IEEE, such as

leadership roles, global recognition, and exposure to the latest industry trends. It served as a call to action for attendees to proactively engage with professional societies, ensuring they are well-prepared for the dynamic challenges of the modern workforce.

Building Digital IQ and Mindset

IEEE CS Madras, CSI Chennai, ACM Chennai, and the Hindustan Chamber of Commerce organized a highly insightful webinar titled "Building Digital IQ and Mindset" on Saturday, 5th October 2024, from 11:00 AM to 12:15 PM IST. The event attracted a diverse group of professionals, students, and industry leaders eager to learn from a renowned expert in digital transformation.

The session featured Mr. Tariq Munir, a distinguished Global



Keynote Speaker and Digital Transformation Expert from Sydney, New South Wales, Australia. With years of experience driving digital change across various industries, Mr. Munir shared his valuable knowledge on enhancing Digital IQ and cultivating the right mindset to thrive in the digital era.

IEEE CS Day @ KARE on Data Science & Analytics

IEEE Computer Society Madras and the IEEE CS SBC at KARE (Kalasalingam Academy of Research and Education) organized a one-day in-person event on 19.10.24, from 9:00 AM to 4:00 PM IST at Kalasalingam Academy of Research and Education, Krishnankoil. The event focused on providing participants with a practical understanding of Data Science and Data Analytics.

The sessions were tailored to equip attendees with hands-on knowledge of essential tools and techniques used in the field, covering topics such as data preprocessing, visualization, and predictive analytics. Experts from academia and industry conducted interactive workshops and technical demonstrations



to bridge theoretical concepts with real-world applications.

Participants gained insights into emerging trends, best practices, and career opportunities in the rapidly expanding domain of

IEEE CS Madras, CSI Chennai, ACM Chennai, HCC & SETS
Cordially invite you to the webinar on
Personal Cybersecurity and Best Practices

Dr. K. Vallidevi
Associate Prof., School of CSE, VIT, Chennai

Date: Monday, 21st Oct 2024 :: Time: 6:30 pm to 7:45 pm IST
Pl. register at <https://bit.ly/web-241021-cybersecurity>

Dr. K Komathy Chair CSI Chennai
Mr. HR Mohan Chair-Events IEEE CS Madras
Dr. P Sakthivel Chair ACM & IEEE CS Madras
Mr. Limesh Sanatkumar President HCC
Dr. N Subramanian Executive Director SETS

data science. The event also fostered collaboration and learning among students, researchers, and professionals passionate about data-driven solutions. By the end of the day, attendees left with enhanced skills and a better understanding of how to leverage data for impactful decision-making and innovation.

Personal Cybersecurity and Best Practices

IEEE CS Madras, CSI Chennai, ACM Chennai, Hindustan Chamber of Commerce, and SETS are organizing a highly anticipated webinar on “Personal Cybersecurity and Best Practices”. The session will be held on 21.10.24, from 6:30 PM to 7:45 PM IST.

The webinar will feature Dr. K. Vallidevi, Associate Professor at the School of Computer Science and Engineering, VIT, Chennai,

who will share her expert insights on personal cybersecurity. Dr.Vallidevi will discuss the best practices for safeguarding personal information in an increasingly connected digital world, covering essential security measures individuals can take to protect themselves from cyber threats.

Participants gained insights into emerging trends, best practices, and career opportunities in the rapidly expanding domain of data science. The event also fostered collaboration and learning among students, researchers, and professionals passionate about data-driven solutions. By the end of the day, attendees left with enhanced skills and a better understanding of how to leverage data for impactful decision-making and innovation.

Webinar on Game Theory and Applications in Operations Management

IEEE CS Madras, ACM Chennai, CSI Chennai and the Hindustan Chamber of Commerce cordially organized an insightful webinar on “Game Theory and Applications in Operations Management” on Saturday, 26.10.24, from 6:00 PM to 7:15 PM IST. The event attracted a wide audience of professionals, students, and industry experts interested in exploring the intersection of game theory and operations management.

The webinar was presented by Prof. R. K. Amit, a distinguished faculty member in the Department of Management Studies at IIT Madras and the author of the book “Game Theory and Applications in Operations Management.” During the session, Prof. Amit provided a comprehensive understanding of game theory, explaining its foundational concepts and how it can be effectively used to address various challenges in operations management.

CSI Chennai, IEEE CS Madras, ACM Chennai & HCC
Cordially invite you to the webinar on
Game Theory and Applications in Operations Management

Prof. R. K. Amit
Dept. of Management Studies, IIT Madras
Author of the book “Game Theory and Applications in Operations Management”

Date: Saturday, 26th Oct 2024 :: Time: 06:00 am to 07:15 pm IST
Pl. register at <https://bit.ly/web-241026-game-theory>

Dr. K Komathy Chair CSI Chennai
Mr. HR Mohan Chair-Events IEEE CS Madras
Dr. P Sakthivel Chair ACM & IEEE CS Madras
Mr. Limesh Sanatkumar President (2024-25) Hindustan Chamber of Commerce

St. Joseph's Institute of Technology
IEEE COMPUTER SOCIETY
HCC
Progress through Enterprise

IEEE Computer Society, Madras
IEEE Computer Society SBC, SJIT
present a one-day, in-person event
IEEE CS Day @ SJIT
on
“Trends in UI/UX Design”
7th Nov 2024 from 8.00 am to 3.00 pm IST
AV Hall 3, St. Joseph's Institute of Technology, OMR, Chennai.

UI/UX DESIGN

Sessions:

- History of Personal Computing
- The advent of Front End Design
- The Emergence of UI/UX
- The real world applications of UI/UX
- The onset of AI
- Focus on Ethical UI/UX
- Trends, Utilities and the Future
- IEEE CS Awareness and Mini ICT Quiz.

Last Date to Register: 04.11.2024 or earlier as the seats got filled up

Registration link: <https://forms.gle/Eaw9XKW8bctmAPV6>

For Details: <https://bit.ly/ieeeeday-sjit-invite>

Through real-world examples and case studies, he illustrated how game theory can be leveraged to optimize supply chains, resolve conflicts, and enhance operational efficiency. The webinar emphasized its applicability across industries, encouraging participants to explore innovative approaches to problem-solving using game-theoretic frameworks. Attendees left with a deeper understanding of this dynamic field and its potential to transform operations management practices.

IEEE CS Day @ SJIT on Trends in UI/UX Design

IEEE Computer Society, Madras, in collaboration with IEEE CS SBC and IEEE SB at St. Joseph's Institute of Technology, successfully organized a one-day in-person event on "Trends in UI/UX Design" on 7th November 2024, from 8:00 AM to 3:00 PM IST, at St. Joseph's Institute of Technology, OMR, Chennai.

The event provided participants with valuable insights into the latest trends, techniques, and innovations in UI/UX Design. It focused on the creation of user-friendly and aesthetically appealing interfaces. Students, professionals, and faculty

IEEE COMPUTER SOCIETY
IEEE CS Madras, CSI Chennai, ACM Chennai & HCC
Cordially invite you to the webinar on
Scaling Generative AI from Proof of Concept to Production

Mr. S. Vaithialingam
Technology Head – Generative AI Solutions and Delivery
Tata Consultancy Services Ltd.

Date: Saturday, 9th Nov 2024 :: Time: 6:00 pm to 7.15 pm IST
PL register at <https://bit.ly/web-241109-genai-poc-production>

Mr. HR Mohan, Chair-Events, IEEE CS Madras
Dr. K Komathy, Chair, CSI Chennai
Dr. P Sakthivel, Chair, ACM & IEEE CS Madras
Mr. Limesh Sanatkumar, President, Hindustan Chamber of Commerce

members had the opportunity to gain hands-on knowledge and stay updated on industry best practices in design.

The event was a great success, with attendees engaging in discussions and learning practical skills to implement in their design projects.

Webinar on Scaling Generative AI from Proof of Concept to Production

IEEE CS Madras, CSI Chennai, ACM Chennai, and the Hindustan Chamber of Commerce successfully organized an insightful

webinar on "Scaling Generative AI from Proof of Concept to Production" on Saturday, 9th November 2024, from 6:00 PM to 7:15 PM IST.

The session was led by Mr. S. Vaithialingam, Technology Head – Generative AI Solutions and Delivery at Tata Consultancy Services Ltd. Mr. Vaithialingam, a recognized expert in Generative

IEEE COMPUTER SOCIETY
CSI Chennai, IEEE CS Madras & ACM Chennai
Cordially invite you to the webinar on
AI, ML and AIoT: A Unified Approach for IoT Developers

Dr. S. Jayakumar
Signal Processing Engineer
Mistral Solutions Pvt. Ltd., Bangalore

Date: Saturday, 23rd Nov 2024 :: Time: 6:00 pm to 7.15 pm IST
PL register at <https://bit.ly/web-241123-ai-ml-aiot>

Dr. K Komathy, Chair, CSI Chennai
Mr. HR Mohan, Chair-Events, IEEE CS Madras
Dr. P Sakthivel, Chair, ACM & IEEE CS Madras

AI, shared valuable insights on how organizations can scale AI models from initial proof of concept (PoC) stages to full-scale production environments. He discussed the challenges, best practices, and strategies involved in transitioning from experimentation to the real-world deployment of Generative AI technologies.

Webinar on AI, ML and AIoT: A Unified Approach for IoT Developers

IEEE CS Madras, CSI Chennai and ACM Chennai successfully organized a highly engaging webinar on "AI, ML, and AIoT: A Unified Approach for IoT Developers" on 23.11.24 at 6:00 PM IST.

The session was led by Dr. S. Jayakumar, Signal Processing Engineer at Mistral Solutions Pvt. Ltd., Bangalore, who shared his expertise on integrating Artificial Intelligence (AI), Machine Learning (ML), and Artificial Intelligence of Things (AIoT) in IoT development. Dr. Jayakumar provided a comprehensive overview of how these technologies can be combined to enhance the performance, efficiency, and scalability of IoT systems.

Participants learned about the latest advancements in AIoT, and Dr. Jayakumar's insights into real-world applications were highly appreciated by both developers and engineers in



SETS, IEEE CS Madras, CSI Chennai, ACM Chennai & NCoE-DSCI
Cordially invite you to the hybrid mode talks at the
Computer Security Day Celebrations

Date: Friday, 29th Nov 2024 :: **Time:** 2.00 pm to 5.00 pm IST
Venue
In-person: SETS, Taramani. **Location Map:** <https://lnkd.in/gNnnIDPy>
Online: Through MS Teams (link will be shared closer to the event)

Pl. register at <https://bit.ly/pgm-241129-csd-sets-regn>

Programme Highlights

- 1.45 pm -** Registration & Networking
- 2.00 pm -** Inaugural Session
 - Welcome Address & About SETS by Dr. N Subramanian, Executive Director, SETS
 - About NCoE-DSCI by Dr. Sarat Chandra Babu, Advisor, NCoE-DSCI
 - About Computer Security Day by Mr. HR Mohan, Chair - Events, IEEE CS Madras
- 2.15 pm -** Launch of the Book "Vulnerability to Victory" authored by Mr. Arul Selvar Thomas, Founder & Director, BriskInfoSec
- 2.30 pm -** Talk 1 on "Vulnerability to Victory: Mastering Cybersecurity in the Modern Age" by Mr. Arul Selvar Thomas, Founder & Director, BriskInfoSec
- 3.00 pm -** Talk 2 on "Guarding your Digital Footprint with Cyber Hygiene" by Dr. DM Ajay, Senior Research Engineer - GenAI, HCLTech
- 3.30 pm -** Talk 3 on "Phishing Scams: Strategies for Prevention and Real-World Insights" by Mr. K Thirupathi, Scientist, Society for Electronic Transactions and Security (SETS)
- 4.00 pm -** Talk 4 on "Uninstallable by Design: The Role of Pre-installed Apps in Android's Security Landscape" by Mr. Thomas Sutter, Researcher, University of Bern and Zurich & Research Associate, University of Applied Science, Switzerland
- 4.30 pm -** Closing Remarks by Dr. P Sakthivel, Chair, IEEE CS Madras & ACM Chennai
- 4.40 pm -** Vote of Thanks by Dr. K Komathy, Chair, CSI Chennai
- 4.45 pm -** High Tea
- 5.00 pm -** End of the Program

- ⇒ While the event is free to participate, the registration is mandatory for logistics reasons.
- ⇒ While the seats are limited for in-person mode, there are no restrictions for attending the event online.
- ⇒ If the no. of in-person mode registrations exceeds the hall capacity, the mode of participation of the late registrants will be made online and they will be informed accordingly.
- ⇒ However, the registration will be closed by 5 pm on 27th Nov 2024. The online link to join the hybrid mode event will be shared by email to the registered participants on 28th Nov 2024
- ⇒ To Register: <https://bit.ly/pgm-241129-csd-sets-regn>
- ⇒ Detailed Invite: <https://bit.ly/pgm-241129-csd-sets-invite>

the audience. The session concluded with an engaging Q&A, where Dr. Jayakumar answered queries related to the practical implementation of AI, ML, and AIoT in IoT solutions.

Computer Security Day Celebrations Event & Talks

IEEE CS Madras, SETS, CSI, ACM, and NCoE-DSCI successfully organized a hybrid-mode event on Computer Security Day Celebrations. The event, held on 29.11.2024, featured insightful talks and the launch of the book "Vulnerability to Victory" authored by Mr. Arul Selvar Thomas, Founder & Director of BriskInfoSec.

The event began with the book launch, where Mr. Arul Selvar Thomas introduced his work, "Vulnerability to Victory", focusing on the journey of overcoming cybersecurity challenges.

Following the launch, participants were treated to a series of

insightful talks by cybersecurity professionals and thought leaders, who emphasized the importance of proactive security measures in today's digital landscape. The hybrid format allowed attendees from diverse locations to participate, creating an interactive platform for learning and collaboration.

The event concluded with a Q&A session, leaving attendees enriched with practical knowledge and a renewed commitment to fostering a secure cyberspace. It was a fitting tribute to Computer Security Day, highlighting the significance of resilience and innovation in the field.

Webinar on Programmable Biology, Fractal Genomics and Precision Medicine: Informatics to rescue?

IEEE CS Madras, CSI Chennai, ACM Chennai, and Bioclues successfully organized a highly engaging webinar on



IEEE COMPUTER SOCIETY
Madras Section

IEEE CS Madras, CSI Chennai, ACM Chennai & BioClues
Cordially invite you to the webinar on

Programmable Biology, Fractal Genomics and Precision Medicine: Informatics to rescue?

Mr. MV (Ram) Ramanujam
Founder & Chief Science - Future Officer
Prodigious Quant-Epigen, Bengaluru

Date: Monday, 2nd Dec 2024 :: Time: 6:30 pm to 7:45 pm IST
Pl. register at <https://bit.ly/web-241202-prog-biology>

Mr. HR Mohan Chair-Events IEEE CS Madras	Dr. K Komathy Chair-Events CSI Chennai	Dr. P Sakthivel Chair ACM & IEEE CS Madras	Dr. Gyaneshwer Chaubey President BioClues
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“Programmable Biology, Fractal Genomics, and Precision Medicine: Informatics to Rescue?” on Monday, 02.12.24, from 6:30 PM to 7:45 PM IST.

The session featured Mr. MV (Ram) Ramanujam, Founder & Chief Science Officer at Prodigious Quant-Epigen, Bengaluru, who



IEEE COMPUTER SOCIETY
Madras Section

IEEE CS Madras, CSI Chennai, ACM Chennai & HCC
Cordially invite you to the webinar on

The Fourth Industrial Revolution and 100 Years of AI (1950-2050)

Dr. Alok Aggarwal
Founder and CEO, Scry Analytics Inc., USA
Author of the book “The Fourth Industrial Revolution & 100 Years of AI (1950-2050)”

Date: Monday, 9th Dec 2024 :: Time: 6:30 pm to 7:45 pm IST
Pl. register at <https://bit.ly/web-241209-4ir-100yrs-ai>

Mr. HR Mohan Chair-Events IEEE CS Madras	Dr. K Komathy Chair CSI Chennai	Dr. P Sakthivel Chair ACM & IEEE CS Madras	Mr. Limesh Sanatkumar President HCC
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shared his expertise on the intersection of programmable biology, fractal genomics, and precision medicine. Mr. Ramanujam discussed how informatics and computational techniques are revolutionizing biology, enabling more personalized and precise medical treatments.

Webinar on The Fourth Industrial Revolution and 100 Years of AI (1950-2050)

IEEE CS Madras, CSI Chennai, ACM Chennai, and HCC successfully organized an insightful webinar on “The Fourth Industrial Revolution and 100 Years of AI (1950-2050)” on 09.12.24, from 6:30 PM to 7:45 PM IST.

The session was led by Dr. Alok Aggarwal, Founder and CEO of



IEEE COMPUTER SOCIETY
OPERATIONAL RESEARCH SOCIETY OF INDIA
CHENNAI CHAPTER

IEEE COMPUTER SOCIETY, MADRAS CHAPTER
AND
COMPUTER SOCIETY OF INDIA, CHENNAI CHAPTER
PRESENTS

10th Prof. T. R. NATESAN ENDOWMENT LECTURE
ON

**MACHINE LEARNING
AND AUCTION DESIGN**

Resource Person: **Dr. SUJIT PRAKASH GUJAR**
Associate Professor & Faculty Chair,
International Institute of Information Technology,
Hyderabad (IIIT-H)
<https://www.iiit-hyderabad.ac.in/>

LINK:
<https://forms.gle/bah4X3v57K5tGZvL9>

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VENUE

DATE & TIME
18th DECEMBER 2024
5 PM : HIGH TEA
5:30 PM : LECTURE

Scry Analytics Inc., USA, and Author of the book “The Fourth Industrial Revolution & 100 Years of AI (1950-2050)”. Dr. Aggarwal shared his extensive knowledge on the evolution of Artificial Intelligence (AI) and its profound impact on the ongoing Fourth Industrial Revolution. He provided a comprehensive overview of AI’s journey from 1950 to the present and discussed its projected developments over the next 30 years, up to 2050.

Machine Learning and Auction Design

The Operational Research Society of India (ORSI) Chennai Chapter, IEEE Computer Society, Madras Chapter, and Computer Society of India, Chennai Chapter successfully organized the 10th Prof. T.R. Natesan Endowment Lecture on “Machine Learning

and Auction Design" on 18.12.24 at 5:00 PM IST.

The lecture was delivered by Dr. Sujit Prakash Gujar, Associate

IEEE Education Society
IEEE Madras Section
IEEE Education Society
Madras Section

**IEEE EDUCATION SOCIETY
MADRAS CHAPTER**
presents
• SESSION ON •
**PROFESSIONAL VALUES
AND THEIR IMPORTANCE**

DR. K. KESAVASAMY
Advisor, IEEE Education Society, Kerala section
Member - Elect, IEEE Education Society Board Governors (2025 - 2027)
Former Software Scientist - ISRO
Former Education Leader - TCS
Former Board of Governors - IITs

DATE : 27.10.2024
MODE : ONLINE
TIME : 6:30 TO 7:30 PM

MS. DIVYASHRI
SECRETARY
IEEE MAS EDSOC SYP

MR. NIRANJAN KUMAR S
CHAIR
IEEE MAS EDSOC SYP

MR. NAVANEETHAKRISHNAN R
CHAIR
IEEE MAS EDSOC

SCAN NOW

Professor & Faculty Chair at the International Institute of Information Technology, Hyderabad (IIITH). Dr. Gujar provided valuable insights into the intersection of Machine Learning (ML) and Auction Design, exploring how machine learning algorithms are revolutionizing the design and optimization of auction mechanisms in various domains, including e-commerce and finance.

IEEE Education Society Madras Section

Session on Professional Values and Importance

The IEEE Madras Section Education Society hosted an enlightening online session titled "Professional Values and Importance" on 27th October 2024. The event was graced by the distinguished speaker Dr. K. Kesavasamy, a renowned authority in professional ethics and leadership. The session aimed to foster ethical principles and professionalism, drawing participants from academic institutions, industries and various professional fields.

The event began with a warm welcome from Ms. Divyashri, Secretary, IEEE MAS EDSOC SYP, who set the tone for the session. This was followed by a welcome address from Mr. Navaneethakrishnan R, Chair, IEEE MAS EDSOC, who highlighted the significance of the topic and the Society's commitment to nurturing professional values.

Dr.Kesavasamy delivered an engaging and insightful talk that underscored the pivotal role of ethical values such as integrity, honesty, accountability, and respect in building successful careers. He illustrated these principles with practical examples from his extensive professional journey, emphasizing their impact on decision-making, workplace harmony, and sustainable growth. He further discussed the importance of adaptability, teamwork, and effective communication as critical skills for addressing modern professional challenges.

His actionable strategies for resolving ethical dilemmas and fostering inclusive workplace cultures left a lasting impression on the audience.

The session featured a vibrant interactive Q&A segment, where participants posed thoughtful questions. Dr.Kesavasamy's responses provided clarity and practical insights into applying ethical principles across diverse professional scenarios.

Towards the end of the session, Dr.Kesavasamy was honored with a virtual memento, presented as a token of appreciation for his invaluable contribution. The session concluded with a heartfelt vote of thanks delivered by Mr. Niranjan Kumar S, Chair, IEEE MAS EDSOC SYP, who acknowledged the speaker's efforts

IEEE Education Society
IEEE Madras Section
IEEE Education Society
Madras Section

**IEEE EDUCATION SOCIETY
MADRAS CHAPTER**
presents
• SESSION ON •
**THE ROLE OF AI IN IMPROVING
CYBERSECURITY AND DATA PRIVACY**

Dr. S. Balakrishnan
ACIT, IISc Bangalore
International Data Science Writer,
India Book of Record Holder,
Senior IEEE Member,
Professor & Head,
Autonomous Vastu Institute Of
Technology

DATE : 25.11.2024
MODE : ONLINE
TIME : 6:30 TO 7:30 PM

MR. HARRY JAKIN
CO-CHAIRMAN
IEEE MAS EDSOC SYP

MS. DIVYASHRI
SECRETARY
IEEE MAS EDSOC SYP

MR. ABIRUJA SRI T
VICE CHAIR
IEEE MAS EDSOC SYP

MR. SUBANJAN KUMAR S
CHAIR
IEEE MAS EDSOC SYP

MR. NAVANEETHAKRISHNAN R
CHAIR
IEEE MAS EDSOC

SCAN NOW

and the participants' enthusiastic involvement.

The overwhelmingly positive feedback from attendees reflected the event's success in inspiring participants to uphold ethical values and professionalism in their personal and professional lives. This initiative by the IEEE Madras Section Education Society marks a significant step towards fostering a culture of ethical responsibility and professional growth.

Webinar on The Role of AI in Improving Cybersecurity and Data Privacy

The IEEE Madras Section Education Society, hosted an enlightening online session titled “The Role of AI in Improving Cybersecurity and Data Privacy” on 25.11.24. The session was presented by Dr. S. Balakrishnan, a distinguished data science writer and expert in the field, and aimed to shed light on how Artificial Intelligence (AI) is revolutionizing cybersecurity and data privacy in the digital age.

The event began with a warm welcome and hosting by Ms. Dharshini, Publicity Coordinator, IEEE MAS EDSOC SYP, followed by an opening address by Mr. Navaneethakrishnan, Chair, IEEE MAS EDSOC. He emphasized the importance of addressing emerging challenges in cybersecurity and data privacy, setting the stage for the engaging session. Dr. Balakrishnan commenced his talk by highlighting the growing complexity of

cyber threats in today’s interconnected world. He discussed the significance of AI-driven solutions in combating cyberattacks, detecting anomalies, and safeguarding sensitive data. Drawing from his expertise as a data science writer, he explained complex concepts in an accessible manner, making the session engaging and informative for a diverse audience.

The session explored key areas where AI is transforming cybersecurity, such as predictive analytics for threat detection, automated incident response systems, and machine learning techniques for identifying vulnerabilities. Dr. Balakrishnan also delved into the use of Natural Language Processing (NLP) in detecting phishing attempts and fraudulent activities. On data privacy, he elaborated on the integration of AI with privacy-preserving techniques like federated learning and differential privacy. He explained how these approaches enable organizations to process sensitive data without compromising individual privacy. His insights highlighted the balance between technological innovation and ethical responsibility, a recurring theme in his work.

The session concluded with an interactive Q&A segment, where participants sought clarity on implementing AI in real-world cybersecurity scenarios and its implications for privacy laws and regulations. Dr. Balakrishnan’s thoughtful responses and real-world examples left a lasting impression on the attendees. The event concluded with a heartfelt vote of thanks by Mr. Harry Jakin, Project Coordinator, IEEE MAS EDSOC SYP, who acknowledged the speaker’s valuable insights and the participants’ enthusiastic involvement. This initiative by the IEEE Madras Section Education Society & SYP Committee was a significant step in raising awareness about the critical role of AI in enhancing cybersecurity.



Objectives

The IEEE Region 10 Educational Activities Committee (EAC) implement programs specifically intended to serve and benefit IEEE members in educational pursuits, the engineering and scientific community and the general public in Asia and Pacific Region.

Pune Section



Dr. Sudeshna Choudhury
Section Chair

1. IEEE Pune Section International Conference (IEEE PuneCon-2024): the 07th IEEE PuneCon-2024 took place in Defence Institute of Advanced Technology (DIAT), Pune on 13th December 2024 to 15th December 2024. The Conference was organized in collaboration with DIAT, Pune. The Conference was big hit as it received 1000+ paper. This conference was supported by Ministry of Defence, India.

DIAT hosts 7th IEEE International Conference

The Defence Institute of Advanced Technology (DIAT), Pune, in collaboration with the IEEE Pune Section, is hosting the 7th IEEE International Conference (PUNECON-2024) from December 13 to 15. The conference focuses on the theme of 'Sustainable secure digital transformation'. The conference emphasized sustainable digital practices, advocating for the responsible use of technology. It featured eight key tracks like sustainable computing, security, privacy, blockchain, and quantum technologies; AI, ML, and Big Data Analytics; Robotics and automation; 5G and beyond communications; IoT, photonics and laser technologies; sustainable energy solutions; and smart manufacturing and industry 4.0.

The conference aims to unite thought leaders, academicians, researchers, technocrats, industry experts, and policymakers to discuss critical issues and innovative solutions related to the theme of sustainable and secure digital

transformation.

The conference was graced by distinguished scientists of DRDO labs, senior academicians, DIAT faculty and industry experts.

Dr. Sanjit V. Kamat, secretary of the department of defence R&D and chairman of DRDO, was the chief guest at the inaugural function on Friday, December 13 and delivered the keynote address. S. Sundari Nanda, IFS, special secretary (internal security), ministry of home affairs, and Dr. Jitendra J. Jadhav, director general of the Jansamraksh Development Agency, Bengaluru, were the guests of honour, and also gave keynote addresses. Dr. Brijesh Narayana Murthy, Vice Chancellor of DIAT, presided over the event, while Dr. Marudha Nene, Head of CSE at DIAT, and Dr. Rajesh Ingole, VC of SMPU, Pune, served as the general chairs of PUNECON-2024.

During the inaugural session, an MoU was signed between DIAT and the National Institute of Electronics and

Information Technology (NIELIT), Delhi, to foster cooperation in the field of education.

Dr. Sanjit V. Kamat wished the conference great success, emphasizing the importance of digital transformation and technological development while ensuring environmental sustainability and security.

In his keynote address, Jitendra Jadhav, DG ADA, Bengaluru, highlighted the crucial role of digital and multi-functional advanced data in the aviation industry, particularly for next generation AI-powered fighter jets. Sundari Nanda, special secretary (IS, MHA), in her keynote, discussed other aspects of digital transformation, emphasizing the importance of such conferences for raising awareness and fostering discussion. She also stressed the need for a clear timeframe, thorough evaluation, and structured approach to implement the Prime Minister's vision of a Viksit Bharat 2047. The event concludes on December 15.

—PMB



2. IEEE Pune Section Eu-Reka-2024: Eu-Reka is a flagship activity for IEEE Pune Section. EU-Reka is known for its motto 'lending hand to elevate educational line in Rural and urban India through 'Promoting Engineering Students as Brand Ambassadors' of Indian Education'. This



PUNECON-2024 DEFENCE INSTITUTE OF ADVANCED TECHNOLOGY (DIAT) & IEEE PUNE section

Jointly organising 7th International IEEE conference from 13-15th Dec 2024

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year, Eu-reka 2024 valedictory was organized on 15th December 2024 at Hotel RameeGrand, Pune. The event was witnessed by 200 + local, National, and International people. The event was sponsored by APS society.



3. Distinguished Lecture on 'Challenges and Opportunities of Energy Transition' by Dr. Dean Sharafi

The PES-IAS Chapter organized a Distinguished Lecture Program (DLP) on "Challenges and Opportunities of Energy Transition" delivered by Dr. Dean Sharafi, Strategic Advisor, Energy Transition at the Australian Energy Market Operator (AEMO), Australia. The lecture took place on Monday, 23rd December 2024, in virtual mode. Dr. Sharafi's session was highly informative, engaging, and interactive, offering valuable insights into the complexities of energy transition and the opportunities it presents. The event was well-received by attendees for its relevance and depth of content.



4. The roundtable on the topic "Sustainable Lighting: Innovations in Energy Conservation: The roundtable on "Sustainable Lighting: Innovations in Energy Conservation" was hosted on 17th December 2024 at MCCIA Trade Tower, Pune, organized by the PES-IAS Chapter, IEEE Pune Section, in collaboration with the Science and Technology Vertical, Pune International Centre (PIC), Indian Society of Lighting Engineers (ISLE), and College of Engineering Pune Technological University (COEP Tech). The event focused on integrating smart controls, IoT, and automation in lighting systems, as well as designing and retrofitting lighting for energy efficiency. Discussions also covered the impact of lighting on health and the environment and explored public lighting systems for urban spaces. The roundtable provided a platform for experts to exchange ideas on sustainable lighting solutions and their role in energy conservation.



5. **TEACHERS' DAY CELEBRATION 2024-25:** Under the guidance of Signal Processing Society Chapter Chair Dr.VarshaHarpale, the IEEE SPS PCCoE Student Chapter organized a Teacher's Day Celebration on September 5, 2024, at PCCoE, Pune, in collaboration with the EnTC Art Circle. The event, held from 2:00 pm to 3:00 pm at Room 6310, honored the contributions of educators, marking the birth anniversary of Dr. Sarvepalli Radhakrishnan. The program began with a quote, "Teaching is the profession that creates all the other professions," followed by Saraswati Vandana. A cultural segment featured performances, including a poetry recital by Saniya Khade, a flute performance by Aditya Bora, and a skit by the EnTC Art Circle. Dr. S.L. Tade, Faculty Advisor of ISF, shared his reflections on the

teaching profession, strengthening the bond between faculty and students. The celebration concluded with a high tea session, fostering informal interactions. The event, organized with the support of IEEE SPS PCCoE and volunteers, successfully celebrated the teaching profession, highlighting its vital role in shaping the future.



6. **Big Data & Gen AI-Powered Innovation: A New Era of Possibilities:** Under the guidance of Society Chapter Chair Dr.VarshaHarpale, the IEEE Signal Processing Society (SPS) PCCoE Student Chapter and ETSA-ISF organized the event "Big Data & Gen AI-Powered Innovation: A New Era of Possibilities" on 18th October 2024, from 3:00 PM to 5:00 PM at LRDC Hall, PCCOE, Pune. The event focused on exploring advancements in Big Data and Generative AI, aimed

at professionals and students in AI and data sciences. Mr. Abhishek Mittal, Senior Director at Capgemini, delivered an engaging session, covering topics like deep learning, neural networks, and their applications across industries, including healthcare, finance, and entertainment. Real-world examples demonstrated AI's transformative potential, followed by discussions on ethical frameworks and career opportunities in AI. The event also recognized the winners of the IEEE Day Poster Design Competition, Harish Patil (1st Prize) and Shreyash Desai (Runner-up). With over 90 attendees, the session fostered insightful discussions and curiosity, making it a significant contribution to professional and educational growth in the AI field.



7. Hands on Engineering workshop for Highschool students: Under the guidance of Signal Processing Society Chapter Chair Dr.VarshaHarpale, the IEEE SPS Student Chapter at PCCOE organized a workshop titled "Hands on Engineering: The Tech Around Us – Science Behind Everyday Devices" for high school students to spark interest in STEM fields. Held on 16th October 2024 at JSPM's Blossom Public School, Tathawade, the workshop targeted 8th-grade students and engaged them in discussions on topics such as the mechanisms behind fitness trackers, voice assistants, and robotics. Over 40 students participated, showing enthusiasm and curiosity as they explored how engineering concepts apply to daily life. The workshop successfully encouraged students to think critically about technology and its applications, inspiring them to consider careers in STEM fields. This initiative emphasized the importance of engineering and innovation, fostering a passion for science and technology among the next generation.
8. A Session on: ML Model Deployment on Raspberry Pi: Under the guidance of Signal Processing Society Chapter Chair Dr.VarshaHarpale, the IEEE SPS PCCOE Student Chapter organized an online session on "Machine Learning Model Deployment on Raspberry Pi" on 22nd October 2024. The session aimed to provide a comprehensive understanding of deploying machine learning (ML) models on edge devices, specifically Raspberry Pi. Dr. Manish Narkhede,

the esteemed speaker, shared valuable insights on deploying ML models using platforms like Teachable Machine, Ultralytics, and Edge impulse. Topics covered included Raspberry Pi's potential for innovative projects, affordability and applications of Raspberry Pico in IoT, real-time object detection with Ultralytics' YOLO, and building edge ML models using Edge Impulse. The session attracted 35 participants who engaged actively, deepening their understanding of ML and IoT. The event's success was due to Dr. Narkhede's expertise and the organizing committee's dedication, reinforcing IEEE's commitment to fostering innovation and practical knowledge in emerging technologies.

9. CEP Project Competition 2024-25: Under the guidance of Society Chapter Chair Dr. Varsha Harpale, the CEP Project Competition 2024-25 was organized by the IEEE SPS PCCOE Student Chapter to provide a platform

for second-year Electronics and Telecommunication (ENTC) students to showcase their innovative projects. Held on 13th November 2024, from 1:00 PM to 3:00 PM at PCCOE, Pune, the competition featured projects evaluated by esteemed judges Mrs. Gayatri Londhe, Dr. Archana Kanwade, Ms. Pallavi Dhade, and Ms. Sushma Vispute based on innovation, technical feasibility, presentation, and real-world impact. The competition saw enthusiastic participation, with students demonstrating their problem-solving abilities. The winners were awarded cash prizes: 1st Prize (Rs. 2000) for "Waste Management," 2nd Prize (Rs. 1600) for "Aqua Alert Water Level Detector," and 3rd Prize (Rs. 1400) for "Smart Library Management." The event highlighted the importance of hands-on learning and innovation, providing valuable feedback for students' growth. It also reinforced IEEE's commitment to fostering creativity and technical excellence in the field.



10. **Quantum Computing: The Era of Utility:** On Monday, October 21, 2024, the I2IT IEEE Student Branch, in collaboration with the Computer Engineering Students' Association (CESA), hosted a session titled "Quantum Computing: The Era of Utility" at the I2IT Convention Centre, Hinjewadi, Pune. Ms. Guncha Malik, a Senior Technical Staff Member and Quantum Ambassador at IBM India, explained the differences between quantum and classical computing, focusing on qubits and practical applications. The session included a live demonstration of IBM's Quantum Platform and Qiskit, giving participants hands-on experience. The interactive event inspired attendees to explore quantum computing's potential and pursue research in this evolving field.



11. **Exploring Immersive Technologies: AR, VR, and MR Session by IEEE Student Branch and CESA:** The IEEE Student Branch and CESA hosted an engaging offline session on Augmented Reality (AR), Virtual Reality (VR), Mixed Reality (MR), and Immersive Technologies on September 18, 2024, at the Convention Centre of Hope Foundation's International Institute of Information Technology, Hinjewadi, Pune. The 1.5-hour session, conducted by technology expert Mr. Narendra Navale,

was attended by 52 SE and TE students. The session aimed to introduce students to immersive technologies, their industrial applications, and emerging career opportunities. Topics covered included the distinctions



between AR, VR, and MR, their applications in sectors like gaming, healthcare, and education, and future trends in these fields. The interactive session successfully raised awareness about immersive technologies, with students gaining valuable insights and becoming eager to explore these tools further.

12. **IEEE Day Poster Presentation Report:** On Tuesday, October 1, 2024, the IEEE Student Chapter of MKSSS's Cummins College of Engineering Pune organized an online Poster Presentation event as part of the IEEE Day celebration. Themed "Leveraging Technology for a Better Tomorrow," it featured 44 teams from colleges like B K Birla Institute, JSPM, Bharati Vidyapeeth, PICT, and more. Participants presented innovative ideas addressing contemporary challenges. Judged by four expert panels, the criteria included innovation, feasibility, impact, organization, and presentation. Winners included MMCOE's Team SURAKSHA, Cummins College's Team Tech_Titans, and PICT's Team Wozniaks. The event highlighted the role of technology in building a sustainable future.



13. **PreXtremeIEEEExtreme Coding Competition Report:** On Saturday, September 21, 2024, the IEEE Student Chapter at Cummins College of Engineering for Women organized the PreXtremeIEEEExtreme Coding Competition under the guidance of IEEE Student Branch Chair ShreeniKalyanshetti. Held in the Power Electronics Lab, the event served as a warm-up for IEEEExtreme 18.0. Seventeen students participated in teams, solving eight algorithmic challenges over six hours using CSAcademy. Proctored by Dr.Mrudul Dixit, Dr. Sheetal Tak, and Prof. SagarVanarase, the event emphasized time management, problem-solving, and team collaboration. The competition successfully

prepared participants for IEEEExtreme, showcasing the chapter's dedication to fostering coding excellence.



14. **IEEE Xtreme 18.0 Coding Competition Report:** On Saturday, October 26, 2024, the IEEE Student Chapter at Cummins College of Engineering for Women hosted the IEEE Xtreme 18.0 Coding Competition under the leadership of Student Branch Chair ShreeniKalyanshetti. Conducted via Google Meet, the 24-hour global event featured eight registered teams with 17 participants tackling complex programming challenges. Proctored by Dr. Mrudul Dixit and faculty, the competition emphasized coding skills, teamwork, and time management. Participants gained insights into competitive programming strategies and collaborative problem-solving. The event, supported by the IEEE Pune Section, highlighted the chapter's dedication to fostering innovation and technical excellence among students.



15. Technosphinx 2.0- Tech Dumb Charades: On Saturday, October 5, 2024, the IEEE CCEW Student Branch and IEEE CIS CCEW Student Branch organized Technosphinx 2.0 Tech Dumb Charades at MKSSS's Cummins College of Engineering for Women, Pune, under the guidance of Branch Counselor Dr. Mrudul Dixit. The event blended fun with technical learning, where nine teams of two interpreted and conveyed technology-related terms using only gestures. Participants showcased quick thinking and creativity, making the rounds lively and engaging. Supported by IEEE Pune Section and IEEE CIS, the event successfully combined technical knowledge with entertainment, fostering collaboration and enthusiasm among students in a unique way.



16. Flagship Event of Ideathon Report: On Saturday, October 5, 2024, the IEEE Ideathon brought together 29 teams with 78 participants to address four real-world challenges: crop protection from monkeys, gamification of financial investment, medical waste management, and deep underwater mineral sedimentation. Expert judges, divided into four panels, assessed solutions based on innovation, feasibility, technical approach, sustainability, and presentation. The event fostered teamwork and creativity, receiving positive feedback from participants and praise from judges for the originality and technical depth of ideas. This successful





initiative highlighted the importance of innovation and set a strong foundation for future ideathons to inspire impactful problem-solving.

17. Technosphinx 2.0- Datathon: On Saturday, October 5, 2024, under the guidance of IEEE Student Branch Counselor Dr. Mrudul Dixit, the IEEE CCEW Student Branch and IEEE CIS CCEW Student Branch hosted the Technosphinx 2.0 Datathon at MKSSS's Cummins College of Engineering for Women, Pune. Focused on chatbot development, the event featured 11 teams, each tackling real-world problems using machine learning and natural language processing. Esteemed judges Dr. Ashwini Deshpande, Dr. Sachin Paranjape, Dr. Manasi Pathade, and Prof. Tejashree Pawar provided insights on practical applications. The two-phase format involved problem-solving, model building, and presentations, enhancing participants' technical, teamwork, and presentation skills.

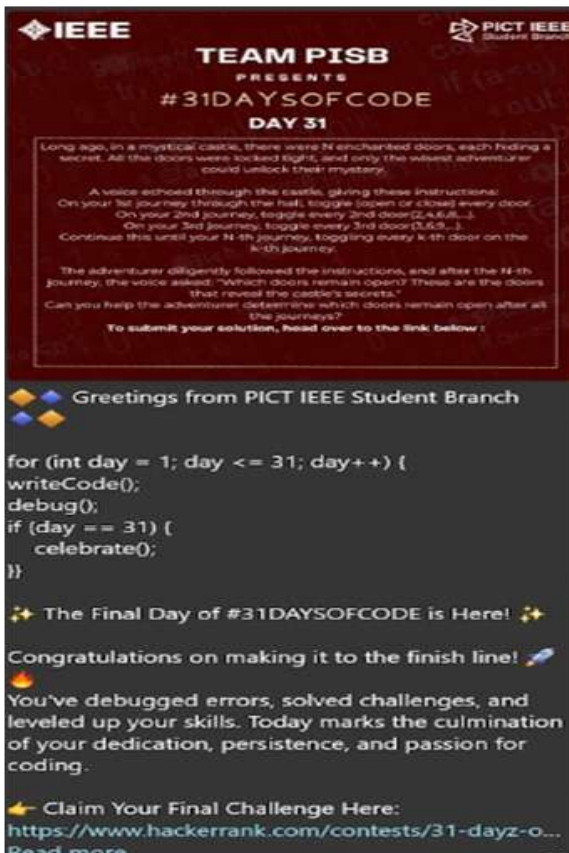


18. Design Thinking Workshop Report: On 5th October 2024, under the guidance of IEEE CCEW Student Branch Chair ShreeniKalyanshetti, the Design Thinking Workshop took place as part of the IEEE flagship event, Technosphinx 2.0. Led by expert Rakshit Jain, the workshop introduced participants to human-centered design and iterative solution development. The event, attended by 40 students, featured team-based problem-solving sessions, interactive discussions, and case studies, highlighting the application of design thinking in real-world scenarios. Special recognition was given to the IEEE Pune Section for their support and to the organizing team for their efforts. The workshop fostered innovation, collaboration, and a deeper understanding of creative problem-solving.
19. CPP SIG (Special Interest Group): The 3-day workshop, held on October 1, was organized by SE students for FE students to introduce them to C++ programming. Focusing on foundational concepts, practical problem-solving, and coding best practices, the event aimed to help students develop a strong programming base. Participants worked on real-world examples and received guidance to enhance their problem-solving skills, fostering a collaborative learning environment and preparing them for future technical challenges.

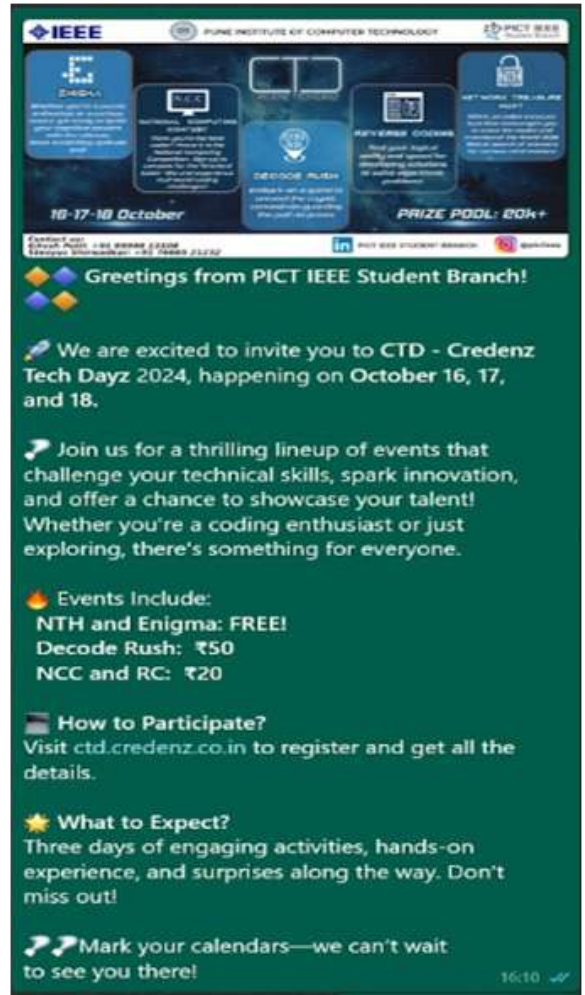




20. Flutter SIG (Special Interest Group): The Flutter SIG workshop on October 1 introduced students to Flutter, a powerful framework for cross-platform mobile app development. The event featured practical demonstrations and hands-on exercises to showcase Flutter's capabilities. Students learned how to build



responsive mobile applications and discussed its real-world applications in the tech industry. The workshop offered valuable insights into mobile app development trends and provided students with the tools needed to create efficient mobile apps.



21. 31 Days of Code: The 31 Days of Code event, which took place throughout November, challenged FE students to solve daily coding problems and secure spots on a leaderboard. This month-long initiative encouraged consistent coding practice, fostering a competitive yet collaborative environment. Students enhanced their problem-solving skills and developed a

strong habit of daily coding, preparing them for future challenges while honing their technical abilities in a structured and engaging way.

22. Frontend SIG (Special Interest Group): The Frontend SIG workshop, held on November 1, provided an introduction to the fundamentals of frontend development, including HTML, CSS, and JavaScript. The event featured interactive sessions to help students build responsive and visually appealing web applications. It equipped participants with essential skills to design user-friendly websites and understand the basics of frontend technologies. By the end of the workshop, students were able to apply their knowledge to create functional and aesthetically pleasing web pages.



23. Expert talk on India Power Sector Scenario and MSEDCL Green Initiatives: Under the guidance of Branch Counselor Prof. Rupalee S. Ambekar, the IEEE BV(DU)COE Pune Student Branch hosted the expert talk on "India Power Sector Scenario and MSEDCL Green Initiatives" on 3rd October 2024, from 11:00 am to 1:00 pm. The session aimed to inform students about the Maharashtra State Electricity Distribution Company Limited (MSEDCL), the PM Suryaghar Scheme, and the job opportunities for electrical engineers in the sector. Dr. Santosh Patani, Deputy Executive Engineer at MSEDCL, Pune, provided insights into India's evolving power sector, highlighting challenges and renewable energy integration. Over 50 students from the Electrical & Computer departments participated. The event, supported by IEEE Pune Section, received positive feedback for its informative content and engagement.



24. Kshitij Talks: Unlocking India's Digital Potential: Under the guidance of Branch Counsellor Prof. Dipti Pandit, the IEEE VIIT Student Branch hosted the "Kshitij Talks: Unlocking India's Digital Potential" session on 4th October 2024, from 2 PM to 4 PM at Venue B001. The event focused on exploring the transformative role of Digital India and IndiaStack in enhancing public services, promoting financial inclusion, and fostering innovation. Prof. Dinanath Kholkar, the distinguished speaker, shared insights into Digital Public Infrastructure (DPI), including digital identity, payments infrastructure, data protection, DBT, and health infrastructure, with real-life examples such as the CoWIN platform and the Toilet Seva app. The session, attended by 40 participants, included discussions and a quiz on DPI logos like Aadhaar. Key takeaways included the importance of DPI in India's digital transformation and the role of cybersecurity in protecting digital infrastructure. The event was supported by the IEEE VIIT Student Branch and Kshitij Talks, highlighting the need for active engagement in building a secure and inclusive digital future for India.



25. IoT Brush-Up Session: Under the guidance of Prof. Dipti Pandit, Counselor of the IEEE VIIT Student Branch, the "IoT Brush-Up Session" was hosted on November 30, 2024, from 11 AM to 12 PM. The session, organized by the IEEE VIIT Student Branch, aimed to finalize preparations for the upcoming IoT Workshop at RanilaxmibaiMulinchiSainikShala on December 2–3, 2024. The meeting, held offline in Room C008, involved planning and collaboration to ensure the workshop's success. Participants discussed the workshop agenda, assigned tasks such as developing presentations, preparing IoT hardware projects, and designing simulations. Required hardware components were identified for timely procurement. The session engaged 29 members, ensuring clarity on the agenda, task distribution, and component requirements for a smooth execution. The session laid a strong foundation for a seamless and engaging workshop experience.



26. farewell event for the outgoing IEEE VIIT SB Committee Members: Under the guidance of Prof. Dipti Pandit, Counselor of the IEEE VIIT Student Branch, the farewell event for the outgoing IEEE VIIT SB Committee Members was organized on December 3, 2024, at C 001. The event celebrated the contributions of the outgoing committee members and provided them with a memorable send-off, creating an atmosphere of gratitude, fun, and camaraderie. The event featured

games like Dumb Charades and Mimicry, fostering creativity and teamwork. Faculty addresses from Dr. Shraddha Habbu (HOD, ENTC) and Prof. Dipti Pandit expressed appreciation for the members' contributions. Refreshments were served, and customized pens were gifted to each outgoing member as tokens of appreciation. The event provided emotional closure, fostered bonding, and left the members with a sense



of accomplishment. The farewell was a heartwarming occasion, marking the end of one chapter and the beginning of new endeavors for the committee members.

27. Participation of Section Chair at Global Symposium at Geneva

Dr Surekha Deshmukh was invited at Geneva-Headquarters of Europe's United Nations and the Red Cross to contribute to IEEE- International Telecommunication Union Symposium at Geneva during 12th-13th December.

She presented views on reforms in energy sector, industrial decarbonization, technology landscape, evolving skillsets, changing job-profiles as well as digital workforce.

The elite gathering of UN Agencies, policymakers, industry leaders, researchers, and standards development organizations collaborated to strengthen our collective actions towards a resilient climate.

There were interactive sessions with leaders from



UNFCCC , UNIDO , ISO , IEC , UNESCO , World Trade Organization, WMO, WHO, FAO, WIPO, ILO, IOE, ITU, IEEE, Capgemini, Nestle, GE, Huawei

28. Prof Jayant Mahajan- Significant movement to create awareness on Climate Change

IEEE Pune Section feels honoured to share the significant movement initiated by our member Professor



Jayant Mahajan. This is truly encouraging and inspiring to all of us.

He is an execom member of TEMS chapter of IEEE Pune Section. He is Business Management professor at Christ University, Pune Campus, and on a mission titled "Change Before Climate Changes" to raise awareness about environmental conservation. He embarked on a 20,000 km solo cycling journey along India's borders, starting on January 23, 2024, from Nahabet in Gujarat, the starting point of the India-Pakistan border. Throughout his journey, he has traversed various states, including Gujarat, Maharashtra, Goa, Karnataka, Kerala, Tamil Nadu, Andhra Pradesh, Odisha, West Bengal, Jharkhand, Assam, Meghalaya, Tripura, Mizoram, Manipur, and Nagaland. His initiative emphasizes the urgency for individuals to alter their habits to prevent

further environmental degradation. Mahajan chose cycling as a non-polluting mode of transport to embody his message of sustainability. He has received considerable support from local communities, inspiring individuals to adopt eco-friendly practices such as tree planting and minimalistic lifestyles. Despite challenges like physical endurance and difficult terrains, especially in the northeastern states, his commitment remains unwavering. Mahajan's journey is self-funded and inspired by fellow cyclist Rupesh Rai, aiming to build a broader movement with other cyclists sharing the same mission. Nagaland Tribune. He maintains an active presence on Instagram, sharing updates and experiences from his journey. His mission underscores the importance of proactive change to mitigate the impacts of climate change.



Join us at Regeneron ISEF 2025 in Columbus, Ohio!

From May 10-16, 2025, top STEM students from around the world will be gathering in Columbus, Ohio, for the Regeneron International Science and Engineering Fair, the world's largest international STEM research competition for high school students. This year, we will be celebrating ISEF's 75th anniversary!

Section-3

Miscellaneous Reports & Announcements

Special Report



Prepared by
Dr.K. Porkumaran
Chair Madras Section

AISYWLC 2024

AISYWLC is the IEEE India Council's annual flagship event, providing a platform for young professionals, academicians, scholars, entrepreneurs, and technocrats to connect and share ideas. This year, AISYWLC 2024 was held in collaboration with the IEEE Madras Section at the College of Engineering, Guindy, Anna University, Chennai, on December 7–8, 2024. The event fostered leadership, innovation, and professional growth through various impactful sessions, showcasing the collaborative spirit of the Madras Section.

DAY 1

Inaugural Ceremony

Dignitaries:

Shri. Deepak Mathur, IEEE Vice President, MGA;

Dr. Debabrata Das, Chair, IEEE India Council;

Prof. PrernaGaur, Chair-Elect, IEEE India Council 2023 - 2024;

Dr.Porkumaran K, Chair, IEEE Madras Section;

Dr.Easwarakumar K S, Dean, CEG Campus, Anna University;

Mr. Shone Jose, Vice Chair, IEEE India Council (SAC and YP)

Dr Sakthivel, Vice Chair, IEEE Madras Section

Date: 7th December 2024

Time: 08:45 AM - 09:45 AM

The inaugural ceremony of AISYWLC 2024 commenced with the traditional lighting of the lamp, symbolizing knowledge, enlightenment, and new beginnings. Esteemed leaders graced the dais, setting the stage for a momentous event. Their presence and inspiring words reflected the conference's significance in fostering innovation, collaboration, and leadership within the IEEE community.

The event commenced with a warm welcome and the felicitation of the esteemed dignitaries, setting an auspicious tone for the proceedings.

Dr.Porkumaran K, Chair of IEEE Madras Section, felicitated Shri. Deepak Mathur, IEEE Vice President MGA. Additionally, Dr. K.S. Easwarakumar, Dean of CEG Campus, Anna University, felicitated Dr. Debabrata Das, Chair of IEEE India Council. Prof. Perna Gaur, Chair-Elect of IEEE India Council, was felicitated by Dr. Sree Sharmila.

Dr.Porkumaran K extended his felicitations to Dr. K.S. Easwarakumar, while Dr. Sakthivel, Vice Chair of Academics, IEEE Madras Section, felicitated Mr. Shone Jose, Chair SAC-YP IEEE India Council. Dr. Debabrata Das reciprocated by felicitating Dr.Porkumaran K.

The Code of Ethics was then delivered by Mr. Ashvanth, Vice Chair of IEEE Madras Section. This was followed by a warm welcome address by Dr.Porkumaran K, who set the tone for the event with his remarks. Mr. Shone Jose provided valuable insights into the AISYWLC, highlighting its objectives and initiatives. This was followed by the Presidential Address by Dr. Debabrata Das, who emphasized the vision and future directions of the IEEE India Council. Shri. Deepak Mathur delivered the inaugural address, inspiring the audience with his leadership and guidance. Prof. Perna Gaur and Dr. K.S. Easwarakumar delivered special addresses, enriching the session with their expertise and perspectives.

The event also included the felicitation of esteemed IEEE Life Members by delegates on the dias along with Dr. Hariprakash, Secretary of IEEE Madras Section. The life members felicitated were Shri. Rangarajan, IEEE Life Member Madras Section, Shri. H.R. Mohan IEEE Life Member Madras Section, Shri. Radhakrishnan, IEEE Life Member Madras Section.

Following this, further felicitations were extended to:

- Abdul Qaiyum Ansari, Chair, IEEE Delhi Section
- Prof. Muhammed Kasim S., Chair, IEEE Kerala Section
- Mr Gopala Narayan, Senior Life Member and Newsletter Editorial Team
- Shri. Koruthur Varghese, Chair, Life Members Affinity Group, India Council
- Shri. Mohandas, Senior Life Member, IEEE
- Dr.K . Gopalan Nair, IEEE Senior Life Member, Newsletter Editor, India Council
- Dr. Sakthivel P, Vice Chair of Academics IEEE Madras Section

Dr. Sakthivel concluded the inaugural ceremony with a vote of thanks, expressing gratitude to all dignitaries, members, and participants for their contributions and presence. Distinguished speakers shared insights on leadership, professional networking, and the Congress's role in shaping the future of technology and opportunities for young professionals. The inaugural session was a gateway to two days of insightful discussions, networking opportunities, and an enriching experience for all participants.

Dr. Debabrata Das announced the award winners of the IEEE India Council, celebrating the achievements and contributions of outstanding individuals and groups within the IEEE community.



Session Name: Keynote Session – Identifying Intellectual Property Component at the Early Stage of Innovation

Speaker: Dr.Sainarayanan G, Director, HCL Technologies Limited

Date: 7th December 2024

Time: 09:45 AM - 10:30 AM

Dr.Sainarayanan G delivered an enlightening keynote session focused on recognizing intellectual property (IP) components during the early phases of innovation. Highlighting strategies to identify and secure IP assets, the session offered valuable insights for innovators and professionals striving to protect their creations in a competitive environment. The session underscored the critical role of IP in fostering innovation and driving technological advancements.



Session Name: Expert Forum – Vision 2030: Industry Trends Building a Resilient and Secure Future

Speakers:

- Dr. Paventhan Arumugam, Sr. Director (R&D), ERNET India, Ministry of Electronics and Information Technology
- Dr. Subramanian N, Executive Director, Society for Electronic Transactions and Security (SETS)
- Mr Raj Subramaniam, Chief Technology Officer, IIT Madras Research Park

Moderator: Dr.Porkumaran K, Chair, IEEE Madras Section

Date: 7th December 2024

Time: 11:40 AM - 12:20 PM

The expert forum titled Vision 2030: Industry Trends Building a Resilient and Secure Future brought together leading experts to discuss the evolving trends shaping the industry and how they contribute to building a resilient and secure technological landscape. Dr Paventhan Arumugam, Dr. Subramanian N, and Mr Raj Subramaniam shared insights into cutting-edge advancements in research, cybersecurity, and sustainable innovation, each addressing unique challenges and opportunities for the future. Moderated by Dr.Porkumaran K, the forum offered a platform for engaging dialogue and forward-thinking ideas. End of the Panel Discussion Dr.Porkumaran K, Chair, IEEE Madras Section Felicitated the Panelists.



Session Name: Keynote Session – Data Engineering: How Data and Its Governance are Becoming New Sources of Revenue/Assets for Organizations

Speaker: Shri. ArunMunuswamy, Assistant Vice President, Delivery Director, Genpact

Date: 7th December 2024

Time: 11:00 AM - 11:40 AM

Shri. ArunMunuswamy led a thought-provoking keynote session on the evolving field of data engineering, emphasizing how organizations can leverage data and its governance to create new revenue streams and valuable assets. The session explored practical strategies and case studies, showcasing the transformative power of



data-driven decision-making. The session highlighted the importance of robust data practices in driving organizational success and fostering innovation in the digital age. Dr. Debabrata Das, Chair, IEEE India Council felicitated the Shri. ArunMunuswamy at the end of the session.

Session Name: Keynote Session – Dream. Dare. Do: The Spirit of Entrepreneurship & Innovation

Speaker: Dr. Suresh Nair, Chair, IEEE R10 Adhoc Committee on Entrepreneurship and Innovation

Date: 7th December 2024

Time: 03:15 PM - 04:00 PM

Dr. Suresh Nair delivered an inspiring keynote session focused on the spirit of entrepreneurship and innovation. The session emphasized the importance of dreaming big, daring to take risks, and executing ideas with determination to transform industries and create new opportunities. Dr.



Nair shared insights from his experiences, encouraging participants to embrace innovation as a pathway to success. This session engaged with thought-provoking questions, encouraging young professionals to explore the limitless possibilities within the fields of entrepreneurship and innovation.

Session Name: Expert Forum – IEEE and You: How Professional Bodies Shape Student Success

Speakers:

- Dr. Sameer S M, Director-Elect 2025-2026, IEEE Region 10
- Prof. Muhammed Kasim S, Chair, IEEE Kerala Section
- Shri. Gopinath PS, COO & Deputy MD, BASE Automation; President, ISA South India Section

Moderator: Dr. Hariprakash R, Secretary, IEEE Madras Section

Date: 7th December 2024

Time: 02:00 PM - 02:45 PM

The expert forum focused on the vital role professional bodies, like IEEE, play in shaping student success. Dr. Sameer S M, Prof. Muhammed Kasim S, and Shri. Gopinath PS shared their insights on how IEEE's global network, resources, and mentorship opportunities





have helped shape the careers and success stories of countless students and young professionals. The session emphasized the importance of active participation in professional organizations for personal growth and career advancement. Dr. Hariprakash R, the moderator, facilitated a dynamic conversation that encouraged students to explore how IEEE can serve as a gateway to success in their professional journeys..

Session Name: Society Talk – Why MTT-S? (Virtual)

Speaker: Mr. Shrinjoy Chatterjee, Convenor, MTT-S SIGHT Committee; Chair, MTT-S Region 10 DAT

Date: 7th December 2024

Time: 02:45 PM - 03:00 PM

In this insightful Society Talk, Mr. ShrinjoyChatterje joined virtually and highlighted the numerous opportunities and initiatives offered by the IEEE Microwave Theory and Techniques Society (MTT-S). Shrinjoy began by sharing insights on the MTT-S SIGHT initiative, which focuses on leveraging microwave technologies for societal impact, and introduced tools like the NanoVNA, a compact vector network analyzer, to inspire hands-on learning. He emphasized the benefits of Young Professionals (YP) in microwave engineering and the role of IEEE Women in Microwave in promoting diversity and inclusion within the field.

The speaker urged participants to register for MAPCON

2025, the flagship conference jointly organized by IEEE MTT-S and APS, and introduced the MAPCON executive committee, outlining its goals and vision. Shrinjoy also elaborated on the various advantages of being an IEEE MTT-S member, including access to technical resources, conferences, professional networking, and career development opportunities. The session was highly interactive, and attendees left inspired to explore IEEE MTT-S initiatives and actively contribute to its vibrant community.



Session Name: Humanitarian Projects in Action: Transforming Lives via IEEE HTB and SPAX,

Speaker: Dr. Adil Usman, Member, IEEE HTB; Chair, IEEE SPAX

Date: 7th December 2024

Time: 04:45 PM - 05:15 PM

Dr. Adil Usman, a member of the IEEE Humanitarian Technology Board (HTB) and Chair of IEEE SPAX, delivered an inspiring session on how IEEE's humanitarian initiatives are making a global impact. He discussed the mission of IEEE HTB in leveraging technology to address critical challenges, including clean water access, renewable energy, healthcare, and education. Dr. Usman highlighted successful projects funded by SPAX, showcasing their transformative effects on underserved communities. The session encouraged participants to contribute to these initiatives and emphasized the importance of collaboration and innovation in creating sustainable solutions for social betterment. Dr. Usman also provided practical insights on how IEEE members and volunteers can contribute to these initiatives, emphasizing collaboration, innovation, and a commitment to humanitarian goals. The session left the audience with a renewed sense of purpose, encouraging them to leverage their technical expertise and IEEE resources to drive meaningful social impact, one step at a time. Dr. Brindha S, Chair IEEE SAC Madras Section Felicitated Dr. Adil Usman during the session.



Session Name: Keynote Session – The Importance of Ethical Standards in Scientific Publications

Speaker: Shri. Rangarajan T S, Chair, IEEE Madras LMAG; Director, Rangarajan Consulting

Date: 7th December 2024

Time: 04:00 PM - 04:45 PM

Shri. Rangarajan T S delivered a crucial keynote session on the importance of maintaining ethical standards in scientific publications. The session highlighted the responsibility of researchers and authors to uphold integrity, avoid plagiarism, and ensure the transparency of their work. Shri. Rangarajan shared key principles and best practices for ethical publishing, fostering a culture of trust and credibility in the scientific community. This session encouraging the audience to reflect on their role in promoting ethical standards and the long-term impact on the research ecosystem.



Session Name: Talk – Transforming Education and Careers through Online Learning

Speaker: Mr. Vinoth D, Enterprise Director - Universities, Coursera

Date: 7th December 2024

Time: 05:15 PM - 05:35 PM

Mr. Vinoth D led a compelling talk on the transformative role of online learning in reshaping education and career development. He emphasized how platforms like Coursera are democratizing access to high-quality

education, allowing professionals to acquire new skills, earn certifications, and boost their careers from anywhere in the world. The session covered key trends in online education, the benefits of lifelong learning, and how individuals can leverage these tools to stay relevant in today's fast-evolving job market. Mr. Arun, Chairman, IEEE Madras Young Professionals Felicitated Mr. Vinodh D at the end of session.



Session Name: Fireside Chat with Shri. Deepak Mathur, IEEE Vice President, MGA

Moderator: Mr. Arun, Chairman, IEEE Madras Young Professionals

Date: 8th December 2024

Time: 5:35 - 6:15 PM.

The fireside chat featured Shri. Mr. Deepak Mathur,

IEEE MGA Vice President, in an engaging conversation moderated by Mr. Arun, Chairman of IEEE Madras Young Professionals. The session explored a range of topics, including managing work-life balance while being actively involved in IEEE, leveraging IEEE resources for professional growth, and strategies for career development in a fast-paced tech world. Audience questions brought a dynamic element to the discussion, with Mr Mathur responding with a perfect blend of humour, wisdom, and practical advice. He emphasized the importance of prioritizing responsibilities, fostering a strong network within IEEE, and maintaining a passion for continuous learning and professional service. The interactive format and Mr Mathur's insightful responses left attendees feeling inspired and equipped to better manage their careers and commitments while contributing meaningfully to IEEE initiatives.



Session Name: Keynote Session – Empowering Sustainable Growth through IEEE Smart Cities

Speaker: Mr. Vamsi Krishna Addepalli, Facilitator, ComedKares Innovation Hub & InUnity LLP

Date: 7th December 2024

Time: 06:15 PM - 06:40 PM

Mr. Vamsi Krishna Addepalli delivered an insightful keynote session on how IEEE Smart Cities initiatives are driving sustainable growth. The session highlighted innovative solutions that use technology to create smarter, more sustainable urban environments, improving the quality of life for residents while reducing environmental impact. Mr. Addepalli shared his expertise on how technology, data, and collaborative efforts can transform cities into hubs of sustainable development, focusing on key strategies for integrating smart technologies into urban infrastructure.

Session Name: Cake Cutting and Cultural Night – The Networking Carousel: Mingle Mania

Date: 7th December 2024



Time: 06:45 PM - 07:45 PM

As part of the cultural festivities, a special cake-cutting ceremony was held to celebrate Dr. Sameer S M achievement as the R10 Director-Elect. The moment added a joyful and personal touch to the event, highlighting the camaraderie and shared pride within the IEEE community.

The Networking Carousel: Mingle Mania provided a fun and interactive opportunity for attendees to unwind and network in a lively, social atmosphere. The event featured a unique format designed to encourage connections and foster collaborations among professionals from diverse backgrounds. Attendees had the chance to engage in conversations, share experiences, and build meaningful relationships while enjoying an evening of cultural celebration. The event was an excellent way to blend networking with entertainment, creating a relaxed environment for professionals to connect beyond the formal sessions.



Day 2

As we move into the second day of AISYWLC 2024, the energy and enthusiasm remain high as participants continue to engage, learn, and collaborate. Day 2 promises an exciting lineup of sessions, inspiring talks, and interactive activities aimed at empowering young professionals and students in engineering. With insightful contributions from esteemed speakers, leaders, and mentors, the day is set to provide invaluable knowledge, foster meaningful connections, and inspire the next generation of innovators and leaders.

Track - Students & LM

Session Name: Science Her Way: Inspirational Indian Women Scientists

Speaker: Shri. Mohandas K P, Senior Life Member, IEEE

Date: 8th December 2024

Time: 8:45

Shri. Mohandas K P delivered an engaging and motivational talk, shedding light on the remarkable achievements of Indian women scientists. His session celebrated the contributions of these trailblazers who have significantly advanced various scientific fields, inspiring future generations. The speaker highlighted the challenges these women faced and how their perseverance and dedication helped them overcome societal barriers to excel in their respective domains. Through their stories, Shri. Mohandas emphasized the importance of inclusivity and diversity in science and technology. He also underscored the need to create a supportive ecosystem to nurture talent and encourage more women to pursue careers in STEM. The attendees were left inspired by the narratives of these exceptional scientists and their lasting impact on India's scientific legacy. The session concluded with Shri. Mohandas K P urging participants to draw inspiration from these icons and contribute toward fostering a culture of innovation and excellence in their endeavors.



Session Name: Emerging Trends in Smart Power Systems Operation

Speaker: Dr. Balasubramanian R, Senior Life Member, IEEE

Date: 8th December 2024

Time: 9:00 to 9:30 am

Dr. Balasubramanian R, Senior Life Member of IEEE, delivered an insightful session on Emerging Trends in Smart Power Systems Operation. The talk focused on the integration of cutting-edge technologies in power systems and their role in addressing modern energy challenges. He discussed key advancements, including the incorporation of renewable energy sources, smart grids, and energy storage systems. He highlighted the importance in improving the efficiency, reliability, and sustainability of power systems. The session also explored challenges such as demand-side

management, grid stability, and risks associated with smart power systems. Dr. Balasubramanian emphasized the significance of collaborative innovation, policy frameworks, and interdisciplinary research to overcome these barriers and unlock the full potential of smart energy systems. Participants were particularly engaged during the discussion of real-world applications and future trends, gaining valuable insights into how smart power systems can contribute to a greener and more resilient energy landscape. The session concluded with an interactive Q&A, leaving attendees inspired to explore further developments in this transformative field.



Track : Women in Engineering (WIE)

Session Name: Finding and Using Your Voice: Advocating for Yourself and Others in Engineering

Panelists:

- Dr. Harivardhagini S, Chair, IEEE WIE Hyderabad AG
- Dr. Brindha S, Chair, IEEE SAC, Madras Section
- Dr. Sree Sharmila T, Chair, IEEE WIE Madras AG

Moderator: Dr. Sangeetha R G, Execom Member, IEEE Madras Section

Date: 8th December 2024

The session, moderated by Dr. Sangeetha R G, focused on empowering participants to advocate for themselves and others in engineering. The panelists, including

Dr. Harivardhagini S, Dr. Brindha, and Dr. Sree Sharmila T, shared their personal experiences and insights on how women engineers can find and use their voices to bring about change in their careers and communities. They discussed the importance of self-advocacy, overcoming challenges, and supporting others in achieving their goals. The panellists also emphasized the role of leadership, mentorship, and networking in fostering an inclusive and supportive engineering environment. The session inspired attendees to speak up for their rights, encourage others, and create a more equitable space in engineering.



Track: Young Professionals Track

Session Name: Beyond Grades: Building a Career Focused Skill Set With IEEE

- Ms. Sanyukta Pawaskar, Secretary, IEEE Region 10 Young Professionals
- Ms. Priyanka Jayakumar, Technical Writer, Chargeback Gurus

- Lt. Sreekanth R, Execom Member, IEEE Madras Young Professional

Moderator: Mr. Shone Jose, Vice Chair - IEEE India Council (SAC and YP)

Date: 8th December 2024

The session, moderated by Mr. Shone Jose, delved into the critical aspects of building a career-focused skill set beyond academic achievements. The discussion emphasized how leveraging platforms like IEEE can bridge the gap between theoretical knowledge and practical expertise. Ms. Sanyukta Pawaskar underscored the importance of continuous learning and skill development to stay relevant in the dynamic tech industry. Ms. Priyanka Jayakumar highlighted the value of professional networking and shared strategies to effectively utilize IEEE's global community for career growth. Mr. Sreekanth R elaborated on how IEEE provides access to mentorship, industry resources, and a variety of opportunities that help professionals align their skill sets with market demands. The session inspired attendees to go beyond grades, embrace a growth mindset, and actively seek opportunities for professional development through IEEE's vast ecosystem.



Session Name: IEEE MOVE India STEM Training for Disaster Management

Instructors:

- Mr. Ashvanth B, Organizing Chair, AISYWLC 2024, Vice Chair, IEEE Madras Young Professionals

- Mr. Dheeraj Singh, Member, IEEE Madras Section MOVE

Date: 8th December 2024

The workshop, led by Mr. Ashvanth B and Mr. Dheeraj Singh, focused on the integration of STEM education in disaster management efforts, as part of the IEEE MOVE India initiative. The session highlighted how engineers and technical professionals can contribute to disaster preparedness, response, and relief efforts. Mr. Ashvanth B shared insights into how collaborative efforts, coupled with technological advancements, can improve disaster management outcomes. Mr. Dheeraj Singh presented on the practical aspects of applying engineering solutions to real-life disaster scenarios and the role of IEEE MOVE India in providing training and support. Participants gained hands-on knowledge of various disaster management tools and were encouraged to apply their skills to make a meaningful impact in their communities during emergencies.



Networking Break

Date: 8th December 2024

Time: 10:15 to 10:45 am

During the Networking Break, participants had the opportunity to connect with peers, panelists, and speakers in a relaxed environment. The session began with a group photo, capturing the essence of the event and its participants. Following this, attendees engaged in

networking, exchanging ideas, discussing experiences, and fostering new professional relationships. This informal session encouraged collaboration and knowledge sharing, creating a sense of community among participants while providing a break from the intense sessions. It was a great opportunity for individuals to network, collaborate, and build connections for future endeavors in the field of engineering and technology.

Session Name: Innovations Practices for Academia to Support Industry: Projects to Products

Speaker: Dr. Ashok Kumar L, Principal, Thiagarajar College of Engineering, Madurai

Date: 8th December 2024

In this session, Dr. Ashok Kumar L shared insights on bridging the gap between academia and industry through innovation practices. He discussed how academic institutions can foster an ecosystem that nurtures projects and transforms them into commercially viable products. Dr. Kumar highlighted various successful collaborations between academia and industry, showcasing the importance of hands-on learning, research-driven innovation, and industry-focused projects. He emphasized the need for academic institutions to align curricula with industry needs, enabling students to develop relevant skills and create impactful solutions. The session provided attendees with strategies for leveraging academia-industry partnerships to foster innovation,





contribute to technological advancements, and drive economic growth. At the end of the session Dr. Ashok Kumar was felicitated by H.R. Mohan.

Session Name: Smart Antennas for 5G Applications (Virtual)

Speaker: Dr. Shanmuganantham T, Chair, IEEE Antennas and Propagation Society Madras Chapter

Date: 8th December 2024

Time: 10:45 to 11:30 am

Dr. Shanmuganantham T's session on "Smart Antennas for 5G Applications" explored the significant role that smart antennas play in the development and implementation of 5G technology. He discussed how smart antenna systems, which use advanced signal processing techniques, enhance the capacity, coverage, and efficiency of wireless communication networks. Dr. Shanmuganantham provided an in-depth explanation of beamforming, MIMO (Multiple Input Multiple Output) technology, and other key techniques that are integral to the success of 5G networks. Attendees gained insights into the cutting-edge antenna designs and innovations that are paving the way for faster, more reliable 5G connectivity. The Virtual session highlighted the importance of smart antennas in optimizing spectrum usage and supporting high data rates, which are essential for 5G applications

in areas such as IoT, autonomous vehicles, and high-definition streaming.



Session Name: Future of AI -Driven PhyGital Innovation

Speaker: Dr. Lakshmi Meera, Vice President and Chief Program Officer, Forge Innovation and Ventures

Date: 8th December 2024

Time: 11:30 to 12:15 pm

Dr. Lakshmi Meera, Vice President and Chief Program Officer at Forge Innovation and Ventures, delivered an insightful session on the future of AI-driven PhyGital (Physical + Digital) innovation. She explored how advancements in Artificial Intelligence are transforming the integration of physical and digital ecosystems, enabling groundbreaking innovations across industries.

Dr. Meera highlighted key trends, including AI-powered automation, smart interfaces, and hybrid experiences that seamlessly blend the physical and digital worlds. She discussed real-world applications in areas such



as healthcare, manufacturing, retail, and education, emphasizing their potential to revolutionize user experiences and business models.

Session Name: From Vision to Victory: IEEE Leaders in Action

Panelists:

- Shri. KoruthuVarughese, Chair, LMAG India Council
- Dr. Kumarappan N, Immediate Past Chair, IEEE Madras Section
- Dr. Rathinavel S, Execom Member, IEEE Madras Section

Moderator: Mr. Ashvanth B, Vice Chair, IEEE Madras Section Young Professionals

Date: 8th December 2024

Time: 12:00 to 12:45 pm

In the session “From Vision to Victory: IEEE Leaders in Action,” the panellists discussed the journey of IEEE leaders and their efforts in shaping the future of the organization. Shri. KoruthuVarughese shared his experiences in leading the LMAG India Council, highlighting the role of leadership in motivating members and driving initiatives that impact the engineering community. Dr. Kumarappan N, Immediate Past Chair of IEEE Madras Section, shared valuable insights into how vision, collaboration, and strategic planning contribute to



the growth and success of IEEE's initiatives. Dr. Rathinavel S emphasized the importance of mentoring and engaging the younger generation to continue the legacy of innovation and leadership within IEEE. The discussion, moderated by Mr. Ashvanth, provided attendees with actionable advice on leadership, teamwork, and creating a lasting impact within the IEEE community.

Immediate Past Chair- IEEE Madras Section Felicitation

During the ceremony, Dr. Kumarappan N, the Immediate Past Chair of the IEEE Madras Section, was honored with the prestigious IEEE R10 Outstanding Volunteer Award. The award was presented by Shri. Deepak Mathur and Dr. Debabrata Das, recognise Dr. Kumarappan's exceptional contributions and dedication to IEEE initiatives.



Committee members Felicitation

This session of AISYWLC 2024 with a ceremony of gratitude and recognition. IEEE India Council dignitaries, Life members took centre stage to distribute mementoes

to organizing committee members, and Volunteers who played a vital role in the success of the event.



The ceremony concluded with a group photo, capturing the camaraderie and shared pride of all participants and contributors to the event's success.

Lunch break:

The lunch break provided attendees with an opportunity to relax, refuel, and continue networking in a more

informal setting. Participants were able to engage in discussions, share ideas, and build connections with fellow professionals, speakers, and panelists. This break served as a time to reflect on the sessions and recharge before the next series of events, fostering collaboration and camaraderie among the attendees. It also allowed



individuals to discuss topics of interest and share insights on the latest trends in the tech and engineering fields.

Session Name: The Role of Communication in Your Volunteering Journey

Speaker: Mr. Aravindhan Anbazhagan, Board of Governor, IEEE Professional Communication Society

Date: 8th December 2024

Mr. Aravindhan Anbazhagan's session highlighted the critical role of communication in shaping a successful volunteering journey, especially within professional organizations like IEEE. He shared personal experiences and strategies on how effective communication can enhance collaboration, foster team spirit, and drive impactful projects. Mr. Anbazhagan discussed the importance of clear, concise, and persuasive communication when working with diverse teams and stakeholders, emphasizing how it can bridge gaps, resolve conflicts, and inspire action. The session also touched on the various communication channels available to volunteers, from written to digital communication, and how to adapt your approach to different contexts. Attendees were encouraged to develop their communication skills to better contribute to IEEE's mission and maximize the impact of their volunteer work.



Session: Sharing IEEE Experience

Speaker: Dr. Sasi C R, IEEE Senior Life Member

Date: 8th December 2024

Dr. Sasi C R took the stage to share his enriching IEEE experience, offering insights into his journey and contributions within the organization. He reflected on the opportunities provided by IEEE for professional growth, collaboration, and innovation.

Dr. Sasi emphasized the value of networking, mentorship, and volunteerism in shaping his career and inspiring others to engage actively with IEEE initiatives. His anecdotes and experiences motivated attendees to explore the vast potential of IEEE as a platform for learning, leadership, and making a meaningful impact in the technical community.

Session Name: Social Media's Role in Shaping Brand Perception

Speaker: Mr. Abdul Halik M I, Secretary, IEEE Madras Young Professionals, Vice Chair of Branding, IEEE Day 2024

Date: 8th December 2024

In this session, Mr. Abdul Halik M I discussed the significant role social media plays in shaping brand perception, particularly within professional organizations like IEEE. He explored how strategic use of social media platforms can enhance an organization's visibility, engage its audience, and foster a positive brand image. Mr. Halik emphasized the importance of consistency, authenticity, and targeted content to effectively communicate an organization's values and mission. He also highlighted the role of branding in attracting new members, partners, and collaborators, and how a strong online presence can build trust and credibility. The session provided valuable insights into leveraging social media tools to create lasting impressions and strengthen an organization's reputation in the digital age.



Session Name: Mentor-Mentee Meeting

Date: 8th December 2024

The Mentor-Mentee Meeting provided an interactive platform for students from various institutions to engage with dignitaries, life members, professors, and speakers. This session encouraged meaningful conversations, allowing students to gain valuable insights, career advice,

and industry knowledge from experienced professionals. As a unique and motivational activity, students collected autographs from the mentors they interacted with. To further inspire active participation, students who gathered the most autographs were rewarded with attractive goodies. This engaging session fostered learning, networking, and a memorable exchange of ideas, leaving a lasting impression on both students and mentors.



Closing Remarks

Date: 8th December 2024

Time: 3: 30 to 3:40 pm

The closing ceremony marked the grand conclusion of the event with engaging addresses, recognitions,

and announcements. The dignitaries seated on the dais included Shri. Deepak Mathur, IEEE Vice President MGA; Dr. Debabrata Das, Chair of IEEE India Council; Mr. Shone Jose, Chair of IEEE SAC/YP India Council; Dr. Sree Sharmila, Chair of IEEE WIE Madras Section; and Dr. Brindha S, Chair of IEEE SAC Madras Section and Shri. Deepak Mathur addressed the audience, reflecting on the key highlights and the significance of the event.

The ceremony concluded with a heartfelt vote of thanks delivered by Mr. Arun, expressing gratitude to all dignitaries, participants, and organizers for their efforts and support in making the event a success. He reflected on the key insights shared during the sessions, highlighting how these learnings will help shape a more innovative and collaborative future in technology and leadership. Mr. Arun thanked the organizing team for their hard work and dedication, which ensured the smooth running of the event. He encouraged attendees to take the knowledge gained and apply it to their personal and professional growth.

Farewell Refreshment

Date: 8th December 2024

Time: 4:00 pm to 4.30 pm

The farewell refreshment session provided a relaxing

opportunity for all attendees to unwind and network informally after the conclusion of the event. It allowed participants, speakers, and organizers to engage in meaningful conversations, reflect on the day's discussions, and share their experiences. This informal gathering helped strengthen professional connections and foster a sense of camaraderie, ensuring that everyone left with lasting memories and valuable relationships from AISYWLC 2024.

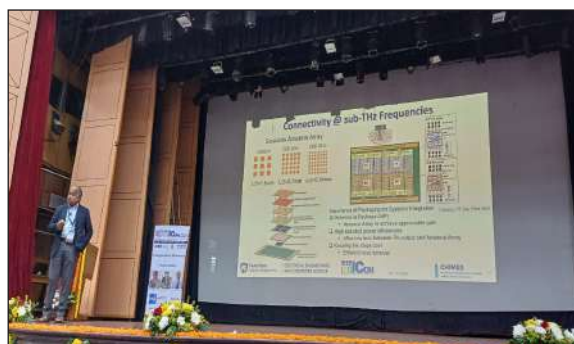
The AISYWLC 2024 marked a successful conclusion to an eventful and enriching experience. The sessions were packed with insights, innovation, and inspiration, empowering participants to take proactive steps in their professional and personal journeys. AISYWLC 2024 has left a lasting impact, paving the way for future endeavours to advocate for excellence, diversity, and empowerment in engineering.



Indicon Photo Album























A new Portal for Student Volunteers

STUDPORT (Students Reporting Desk)

This column is exclusively meant for IEEE Student Volunteers to report their activities directly. They can choose any important activity carried out in the current quarter and report in their own words. This is to promote their reporting capability along with the execution of their program. The report is limited to 500 words with maximum two relevant photographs, one or two reports from each Section with suitable title. Only two will be selected to publish in the quarter issue of IC Newsletter. Chair SAC of the Sections can direct as well as advice the SB volunteers to cooperate and limit the number of reports. - Editor

STUDPORT Report - 1

STANDARD WORKSHOP HACKATHON

The IEEE St. Joseph's College of Engineering Chennai, Student Branch Chapter proudly served as the South Zone hosting partner for the IIFON Standards Workshop and Hackathon, organized in collaboration with the IEEE India Council Industry Academia Young Professionals Committee and the Indian Internet Foundation (IIFON). This prestigious event highlighted the critical role of standards in Software & Systems Engineering, Network Governance, Cybersecurity, and the Internet of Things (IoT). The event commenced with an inaugural ceremony led by Mr. Shone Jose, Vice Chair of the IEEE India Council for Young Professionals, who emphasized the transformative potential of IoT and next-generation communication technologies.



Technical sessions featured distinguished experts, including Mr. Anand Raje, Co-Founder & CTO of IIFON, who discussed Advanced Internet Operations Research (AIORI), Internet resiliency, and India's first L Root instances; Ms. T. R. Ramya, Principal Research Engineer at CeWIT, who explored telecom standards and wireless advancements; and Dr. Sudha Bhuvaneshwari, President of ISOC Chennai, who provided insights into Internet standards, the IETF, and network security. With participation from 31 students representing 15 colleges, the workshop underscored the importance of innovation and collaboration between academia and industry. The event's success was a testament to the seamless coordination by Mr. A. Sadeesh Kumar ensuring a valuable and enriching experience for all attendees.



Reported by: SB Chair, St. Joseph's College of Engineering, Chennai, Student Branch

STUDPORT Report - 2

HACK 4- GOOD 24

The National Institute of Technology Calicut (NITC), in collaboration with the IEEE Signal Processing Society Kerala Chapter and the IEEE Humanitarian Technologies Board, proudly organized Hack4Good, a prestigious hackathon held on the 28th and 29th of December 2024. This event aimed at addressing real-world challenges aligned with the United Nations Sustainable Development Goals (SDGs). Participants were encouraged to tackle critical issues such as clean water access, sustainable urban development, and global partnerships by developing innovative and impactful technological solutions. Hack4Good is open to all engineering college students, allowing inter-college and inter-specialization teams. Each team must consist of four members, with at least one member being an IEEE member. A registration fee will be collected from each team at a later stage. The event structure includes multiple phases, beginning with an abstract submission where teams present their initial project ideas. A progress checkpoint is scheduled midway to assess ongoing work and provide constructive feedback. The final round will feature in-person presentations and demonstrations of the completed projects. Participants will receive 21 problem statements rooted in five UN SDGs, providing a diverse range of challenges to address. The duration of each phase varies, offering adequate time for development and refinement of solutions.

Type of activity:

SB Event

Organized by: IEEE Signal Processing Society Kerala Chapter in collaboration with the IEEE Humanitarian Technologies Board

Host Organization: National Institute of Technology Calicut (NITC)

Participants: The event was targeted at engineering students from all disciplines, encouraging participation from inter-college and interdisciplinary teams.



Impact of the Event

Hack4Good was a transformative experience for participants, providing a unique platform to address real-world challenges while sharpening their technical expertise, creativity, and teamwork skills. By working on problem statements aligned with the UN Sustainable Development Goals, students gained valuable insights into developing innovative and practical solutions for issues such as clean water, sustainable urban development, and global partnerships. The event encouraged interdisciplinary collaboration, bringing together students from diverse backgrounds to share knowledge, explore new perspectives, and learn from each other. The hackathon's impact extended beyond the participants, leaving a significant mark on the engineering community as a whole. It demonstrated the power of technology to address pressing global issues, fostering a culture of innovation, problem-solving, and social responsibility among future engineers. Hack4Good not only highlighted the critical role engineers play in shaping a sustainable future but also inspired a broader commitment to leveraging technical skills for humanitarian and societal benefit. Hosted at NIT Calicut, the event underscored the institution's dedication to nurturing talent and promoting impactful technological advancements.



Reported by: SB NIT Calicut

STUDPORT Report - 3**An Unforgettable Experience at AISYWLC 2024**

Last weekend, I had the privilege of attending the All India Students, Young Professionals, Women in Engineering, and Life Members Congress (AISYWC 2024) in Chennai. It was an event that wasn't just about sessions and networking but about meeting amazing people, sharing stories, and creating memories that will last a lifetime.

What I Learned:

- Sometimes, stepping back for a moment lets you see the bigger picture you might have missed.
- What you put into the world often comes back in unexpected ways — a gentle nudge to focus on the right things.
- Life happens in the now. Don't let overthinking about yesterday or tomorrow steal today's moments.

I met some truly inspiring leaders like Deepak Mathur, Dr Sameer S M, Muhammed Kasim S, Shone Jose and many others who shared incredible insights that I'll carry forward in my journey. This event also gave me the chance to connect with peers, volunteers, and professionals who are passionate about technology, leadership, and making a difference. A huge shout out to the amazing organizers, including IEEE, IEEE India Council, IEEE Kerala Section and IEEE Madras Section for putting together such a memorable event.

Special mention to Mrudul, John Mathews, Haritha Harilal, Abhiram, Sudharsanan, Jeswin Joshy, MANU C MADHU, Nived G, etc. To everyone I met and interacted with — thank you for making this such a meaningful experience. Here's to more learning, growing, and making an impact together!

*Reported by: **Robin Francis**, SB, Sahridaya College of Engineering and Technology, Thrissur*

STUDPORT Report - 4**THE GRSS CONFERENCE**

The Sai Ram Institute of Technology, Chennai IEEE student chapter is affiliated with the global IEEE organization which is the world's largest technical professional organization dedicated to advancing technology for the benefit of all engineers. We aim to provide a platform for students to develop professionally, engage with industry leaders, and collaborate on projects, enhancing technical knowledge and skills through events, workshops, and conferences in the engineering domain.

On the serene evening of Sunday, November 10, 2024, the IEEE Geoscience and Remote Sensing Society (GRSS) at Sri Sairam Institute of Technology orchestrated an engaging online event under the theme "GRSS Awareness and Opportunities." This meticulously planned session was led by the enthusiastic members of IEEE GRSS SIT, featuring the insightful speakers Shanmugapriya R and Gnanesh Kumar J G.

The event commenced with a warm and inviting address from Dr. G. Saritha, the IEEE SB Counselor. Dr.

Saritha's genuine introduction established a friendly atmosphere, immediately putting participants at ease and fostering an environment charged with enthusiasm and curiosity. Her opening remarks highlighted the significance of the GRSS and set the tone for an enlightening evening.

Shanmugapriya R and Gnanesh Kumar J G then took the virtual stage, initiating their presentation with an in-depth overview of the IEEE Geoscience and Remote Sensing Society. They elaborated on the society's mission and vision, emphasizing its global impact and essential role in advancing knowledge through research, education, and outreach endeavors. The speakers passionately discussed the importance of GRSS in fostering innovation and addressing pressing global challenges.

Delving into the latest developments in geoscience and remote sensing, the speakers captivated the audience with a comprehensive exploration of state-of-the-art technologies and methodologies such as satellite imaging and geographic information systems (GIS). They highlighted the diverse applications of remote sensing technology, focusing on its significant contributions to addressing global challenges like climate change and natural disasters. The vivid descriptions and real-world examples brought the subject matter to life, making it accessible and intriguing to the participants.

Participants were introduced to numerous opportunities within the GRSS, as the speakers discussed various programs, workshops, and conferences provided by the society, offering valuable platforms for learning, networking, and professional development. The attendees' enthusiasm was evident as they actively engaged with the content, displaying a sincere interest in the transformative potential of geoscience and remote sensing. The speakers underscored the benefits of becoming a GRSS member, including access to a wealth of resources and a global network of experts.

A notable aspect of the session was the interactive Q&A segment, where participants were encouraged to share their thoughts and questions, fostering a lively and interactive dialogue. Shanmugapriya and Gnanesh adeptly addressed each query, providing detailed explanations and insights that further stimulated the audience's curiosity and engagement. This segment was particularly engaging, as it allowed participants to delve deeper into the topics discussed and explore specific areas of interest.

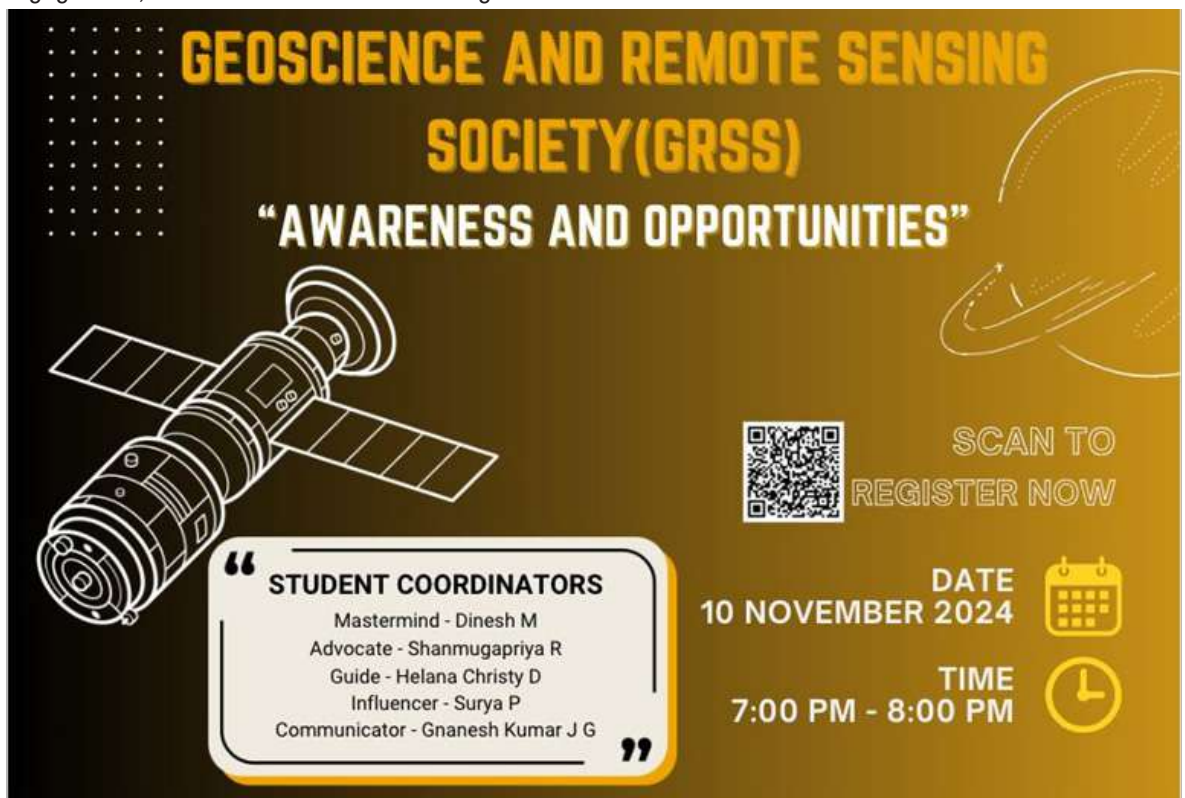
Furthermore, the speakers presented real-world case studies illustrating the practical applications of remote sensing technology across various industries, from agriculture and forestry to urban development. These case studies vividly demonstrated the tangible impact of remote sensing, inspiring participants to contemplate their potential contributions to the field. The examples provided a glimpse into the innovative ways remote sensing is being used to solve real-world problems, sparking ideas and encouraging creative thinking among attendees.

As the event drew to a close, Dr. R. Prabavathi, IEEE GRSS Strategist, delivered a heartfelt vote of thanks, expressing sincere gratitude to all attendees, speakers, and organizers for their collective efforts in ensuring the success of the event. Her words resonated with all those present, underscoring the importance of sustained engagement and collaboration in advancing the field. Dr. Prabavathi's closing remarks encapsulated the spirit of the event, highlighting the collective passion and commitment of the GRSS community.

The “GRSS Awareness and Opportunities” event not only imparted valuable insights but also served as a wellspring of profound inspiration. It underscored the pivotal role of GRSS in advancing geoscience and remote sensing, equipping participants with the knowledge and motivation to pursue careers and projects in this dynamic domain. The event epitomized the collaborative spirit and intellectual vitality of IEEE GRSS SIT, laying a solid foundation for future endeavors.

Participants left the session with a renewed sense of purpose and excitement, eager to explore the vast opportunities within the GRSS. The event fostered a sense of community and camaraderie among attendees, strengthening their resolve to contribute meaningfully to the field of geoscience and remote sensing. The success of this event highlights the power of collaboration and shared knowledge in driving innovation and creating a sustainable future.

In conclusion, the “GRSS Awareness and Opportunities” event was a resounding success, leaving a lasting impact on all participants. It showcased the significant contributions of geoscience and remote sensing to solving global challenges and inspired attendees to become active members of the GRSS community. The event set a high standard for future initiatives, emphasizing the importance of continuous learning, engagement, and collaboration in advancing the field.



The poster features a satellite illustration on the left and a QR code on the right. The main title is in large, bold, yellow letters. Below the title, the event details are listed in a white box. To the right of the box, the date and time are displayed with calendar and clock icons. The background is a solid yellow color with a grid of dots in the top left corner.

GEOSCIENCE AND REMOTE SENSING SOCIETY (GRSS)

“AWARENESS AND OPPORTUNITIES”

SCAN TO REGISTER NOW

DATE
10 NOVEMBER 2024

TIME
7:00 PM - 8:00 PM

STUDENT COORDINATORS

- Mastermind - Dinesh M
- Advocate - Shanmugapriya R
- Guide - Helana Christy D
- Influencer - Surya P
- Communicator - Gnanesh Kumar J G

Reported by: **S. Pooja Chettur**, 1st CSE(Cybersecurity), SB Sai Ram Institute of Technology

STUDPORT Report - 5**Robotic Arm Workshop**

The IEEE RAS Student Branch Chapter (SBC) at NIT Calicut organized an engaging and insightful event titled “The Robotic Arm Workshop” on 9th November 2024 at the EED Seminar Hall, NITC. The workshop aimed to empower students by providing hands-on experience in designing and building a robotic arm while exploring advanced tools and technologies.

Participants delved into essential topics like kinematics, 3D modelling using Fusion 360, and the intricacies of 3D printing. Live demonstrations and expert sessions by professionals from Eight Plane Solutions introduced attendees to visualization techniques and the fascinating world of robotic arm kinematics. The event concluded on a high note, with students expressing their enthusiasm and satisfaction with the quality of instruction and meticulous organization. The workshop effectively bridged the gap between theoretical knowledge and practical applications, leaving participants inspired and eager for further exploration.

Target Audience:

The workshop was primarily aimed for students of 1st year from branches of Electrical and Mechanical engineering.

How It Benefitted the Participants:

The Robotic Arm Workshop significantly enhanced participants’ understanding of robotics and advanced



fabrication technologies. By combining theoretical learning with hands-on practice, students were able to grasp essential concepts like kinematics, 3D modeling, and 3D printing. The sessions on tools such as Fusion 360 and Tinker CAD enabled students to develop design skills and explore their creativity. Additionally, the live 3D printing demonstration provided practical insights into transforming digital models into real-world prototypes.

The workshop encouraged teamwork, problem-solving, and innovation, equipping students with critical skills that are vital for both academic and professional success. The opportunity to work under expert guidance and witness the integration of design and technology left participants with a solid foundation in robotics and a renewed enthusiasm for exploring advanced applications in automation and design.

*Reported by : **Abhiram**, NIT CLT SB*

Students & Young Professionals

Sustainable Solutions for Humanity 2024



Prepared by
Director General-KIET Group of
Institutions
Chair Elect IEEE India
Council - 2025

- IEEE Region 10
- IEEE India Council

Technical Sponsors

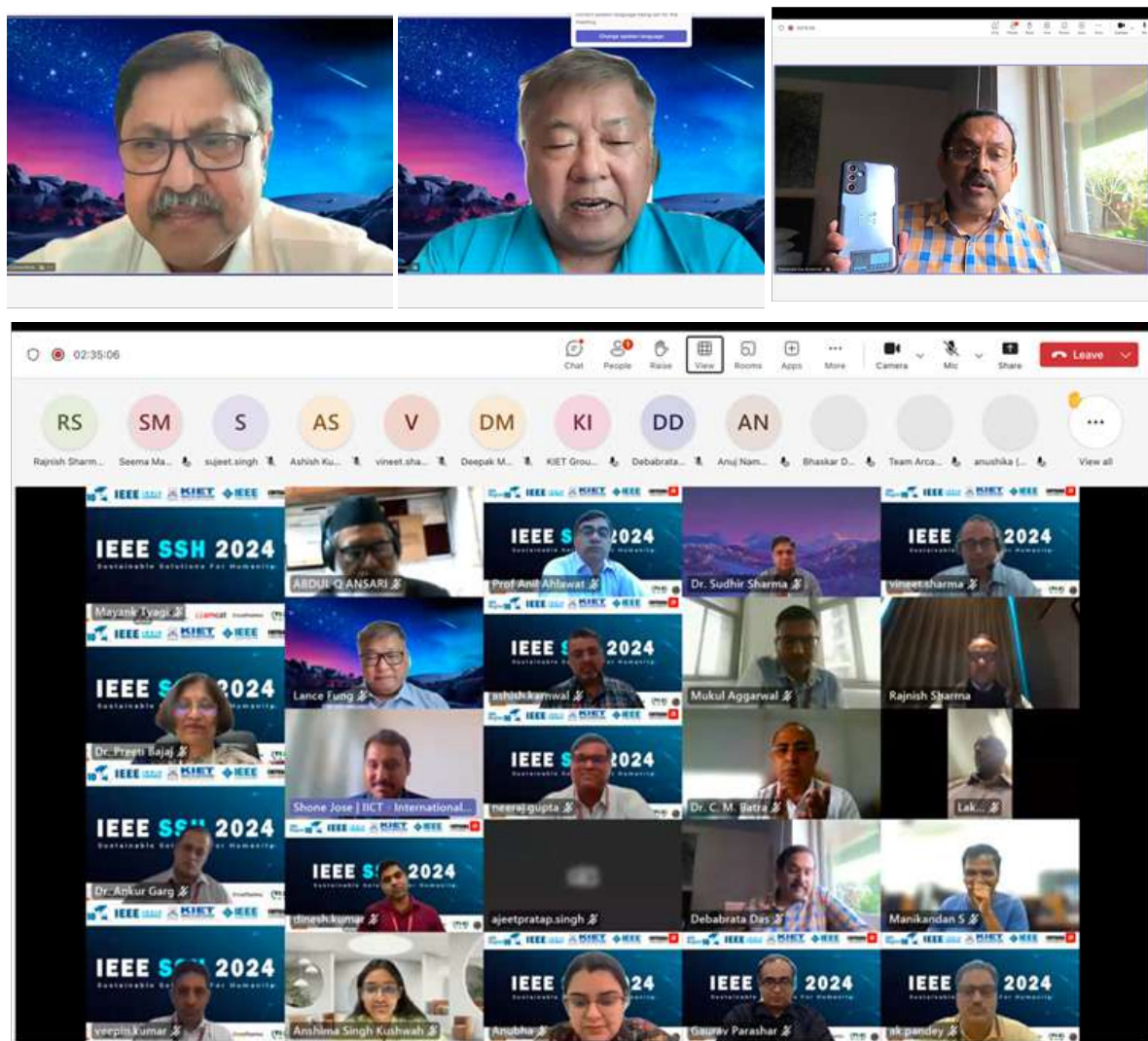
- CodeTantra
- TBI-KIET
- AMCAT
- DELHI SECTION YP
- HK SECTION
- SAC IEEE INDIA COUNCIL

Organizing Committee

1. Dr.Preeti Bajaj (Chair Adhoc on Outreach and Retention Committee Chair, IEEE Region 10 Asia Pacific, Director General, KIET)
2. Mr. Shone Jose (SAC IEEE India Council)
3. Dr. Ray (Chair IEEE Hongkong Section)
4. Dr.Rajnish Sharma (Secretary of IEEE, Delhi Section, and Vice Chancellor Chitkara University Himachal)
5. Prof.MeenuKhurana (Dean of Engineering Chitkara University Himachal)
6. Mr. AbhinavGambhir (Microsoft)
7. Dr.Rajashree Jain (Adhoc on Outreach and Retention Committee Chair)
8. Dr. Sandhya Sharma (Chitkara University, Himachal Pradesh)

9. Dr. Gaurav Garg (Chitkara University, Himachal Pradesh)
10. Dr.Vineet Sharma (Dean CSE, KIET)
11. Dr.Adesh Pandey (Dean IT, KIET)

IEEE SSH 2024, a collaborative initiative by IEEE Region 10 and IEEE India Council, is a premier student-led hackathon providing a prestigious platform for tech enthusiasts across Asia and the Pacific. This event serves as a beacon for innovation, collaboration, and technical excellence, creating an outstanding digital environment for the young generation. It was led by Dr Preeti Bajaj and series of volunteers from various sections. IEEE Sustainable Solutions for Humanity 2024 (IEEE SSH 2024) began on September 28, 2024, at 9:15 AM in an online mode, extending over 24 hours. The event witnessed enthusiastic participation from over 200 teams, comprising 630 students representing 16 states across India. These participants competed across 8 different tracks, including AR/VR, Blockchain, Education, Environment, Generative AI, Healthcare, Open Innovation, and Green Energy, showcasing their unique solutions for sustainability. Phase 1 of IEEE SSH 2024 was marked by intense competition and impressive technological displays. With 210 teams competing, it highlighted the diverse talent pool and



innovative spirit of students from various states and institutions.

Phase 1 was virtually inaugurated by Prof Lance Fung, Director IEEE, Region 10 with Dr. Debabrata Das, IEEE India Council Chair, Mr. Deepak Mathur, IEEE Vice President MGA, Dr. Perna Gaur, IEEE India Council Chair Elect, Prof. Rajnish Sharma Secretary of IEEE, Delhi Section, Dr. Ray, Chair, Hong Kong Section, and Dr. Preeti Bajaj, IEEE

Region 10 Chair, Adhoc on Outreach and Retention. Phase 2 was physically conducted and virtually inaugurated by Dr. Anil Sahasrabudhe, Chairman of National Education Technology Forum (NETF), Chairman EC NAAC, and Chairman NBA, as our Chief Guest (online), along with Dr. Debabrata Das, IEEE India Council Chair, Mr. Deepak Mathur, IEEE Vice President MGA & Dr. Perna Gaur, IEEE India Council Chair Elect.

The event's execution was meticulously planned, with pre-hackathon activities such as team registrations, onboarding, and mock trials on Codetantra, which ensured participants were well-prepared before the actual codeathon. The codeathon itself allowed participants to work on problem statements for 24 hours, followed by mentoring and project submission through GitHub. Thirty-seven jury members from different parts of IEEE Region 10 participated in the codeathon and evaluated the problem statements from Github. The criteria were 60% codetantra problems, 30% presentation, and 10% video explaining the problem. Phase 1 concluded with the announcement of track-wise winners, each awarded \$100 for the winning team and \$50 for the runners-up, along with certificates of recognition. The top 52 teams from Phase 1 were invited to participate in Phase 2, reflecting the competitive nature of the event.

Phase 2 of IEEE SSH-2024 was conducted on 21st - 22nd October 2024 in physical mode where 51 teams participated from 28 different institutes from the country. Teams enthusiastically participated in 24 hours hackathon.

Winners of Phase 2:

Team name	Track	Name of Institute	Winning Category
MirazeX	Green Energy	Trident Academy of Technology, Odisha	Overall Winning Team, Best Coding, Best Solution
Zen	AR/VR	Indian Institute of Science (IISc), Bangalore	Best Innovation, Best Coding
Suryamukhi	Green Energy	KIET Group of Institutions, Uttar Pradesh	Best Design

(Reported by: Prof. (Dr) Preeti Bajaj Ph.D (Electronics),



Dr. Preeti Bajaj Addressing the august gathering





Virtual address by Dr. Anil Sahasrabudhe



M.B.A, Director General-KIET Group of Institutions, Delhi-NCR, Meerut Road (NH-58) 201206, <http://www.kiet.edu/dg@kiet.edu>, Mob.: +91 9822220369, 2024 Chair IEEE MGA Awards and Recognition Committee, 2025-Chair Elect IEEE India Council, 2024-26 Member at large on BOG IEEE Education Society)



Students & Young Professionals

Asia Pacific Symposium on Internet Measurement, Security & Standards



DR. JOHN JOSE
Vice Chair –
Industry Academia Collaboration
IEEE India Council;
Associate Professor, Department of
CSE, IIT Guwahati.
johnjose@iitg.ac.in

Asia Pacific Symposium on Internet
Measurement, Security & Standards

Background

AIORI (Advanced Internet Operations Research in India) program has created a network of devices (anchors) deployed across India majorly in educational institutes that actively measures Internet connectivity and reachability, providing an unprecedented understanding of the state of the Internet in real time. The program helps in improving our understanding of the Internet as a whole and intends to benefit end users, researchers, network owners and policy makers. The first phase of the program was supported by MeitY, Govt. of India and the second phase of the program is supported by the National Internet Exchange of India (NIXI). The Project seeks to improve the security, stability, and understanding of the Internet's DNS infrastructure in India and become the test bed for development of new protocols and evolution of Internet.

About AIORI - 1

AIORI - 1 is a three day program with 2 day IEEE IC Standards hackathon finals based on IETF standards and a one day Asia Pacific Symposium on Internet Measurement, Security & Standards (APSIMSS).

The standards hackathon will see 11 teams competing with each other on solutions and implementations based on IETF (Internet Engineering Task Force) RFCs. The problem statement for hackathon is available at https://portal.aiori.in/wp-content/uploads/2024/10/IEEE-IC-Hackathon_Problem_Statements.pdf. The teams are a combination of faculty and students. The winner of the hackathon will be supported to participate in IETF hackathon in Mar-25.

The symposium (APSIMSS) will be discussing Internet Measurement, Security & Standards. It is targeted at students, researchers, practitioners and Industry in India and Asia Pacific. Anyone from the Asia Pacific region, interested in Internet measurement, security & standards issues and related international activities, are welcome to participate in the symposium. It is being collocated with IEEE ANTS Conference.

Location : IIT Guwahati

Hackathon Final : 16th & 17th December, 2024.

APSIMSS : 18th December, 2024

Participation

The participation in APSIMSS will be from Academia, Internet Service Providers, IXPs, CDNs & Enterprises. The Hackathon Teams will also be participating in the APSIMSS.

Conference Website

<https://portal.aioiri.in/aioiri1/>

Sponsorship Category & Privileges

Sponsorship Privileges	Gold Sponsor (1 Slot) (INR 10 Lacs plus Taxes)	Silver Sponsor (2 Slots) (INR 5 lacs plus Taxes)	Supporting Organization (10 Slots) (INR 2 Lacs plus taxes)
Appoint a Mentor in the Hackathon	Y	-	-
Dedicated Slot during Hackathon	Y	-	-
Dedicated Slot in Industry Session	Y	Y	-
Speaker Slot in the Panel	Y	Y	-
Standeers in the Pre Function Area	Y	Y	Y
Corp. Literature in Delegate Kit	Y	Y	Y
Logo on the Welcome Standee	Y	Y	Y

About IIFON

India Internet Foundation (IIFON) is an Internet Research & Policy think tank organization working on thematic, policy and technical dimensions of Internet. It is not for profit organization and registered as a trust under Indian Laws. The strategic program of this organization includes keeping Indian Internet traffic local to India and the second strategic program is Internet Operations Research which is working to improve the security, stability, and understanding of the Internet's DNS infrastructure in India. The mission is Improving Trust. Building Communities. It relates itself to UN Sustainable Development Goals for

2030 and aligns with Goal 17 of revitalizing the Global Partnership for Sustainable Development.

Annexure 1: Report on Hackathon Workshop for Five Zones

Workshop – South Zone

Workshop date : 18th September 2024

Workshop venue : St. Joseph College of Engineering, Chennai, Tamil Nadu

Agenda link : Program Schedule – Chennai – AIO RI

Key speakers :

- Mr. Anand Raje, CTO- AIORI & Trustee – IIFON A nand Raje | LinkedIn
- Ms. T R Ramya, CeWIT Ramya T. R. | LinkedIn
- Dr. N. Sudha Bhuvanewari, President, ISOC

Chennai Sudha

- Bhuvanewari Narayanaswamy | LinkedIn
- Mr Shone Jose, Vice Chair IEEE India S hone Jose | LinkedIn

Total Registrations : 99



SOUTH ZONE WORKSHOP PARTICIPANTS GROUP PHOTO



SPEAKERS OF WORKSHOP FROM LEFT TO RIGHT: DR. T. R. RAMYA, DR N. SUDHA BHUVANESWARI, MR. ANAND RAJE, MR. SHONE JOSE



DR T. R. RAMYA CONDUCTING HER SESSION ON TELECOM STANDARDS AND TSDSI



SPEAKERS OF WORKSHOP SOUTH ZONE FROM LEFT TO RIGHT: DR N. SUDHA BHUVANESWARI, DR. T. R. RAMYA, MR. ANAND RAJE, MR. SHONE JOSE

Workshop - North Zone

Work shop date : 21st September 2024

Work shop venue : Sharda University, Greater Noida, UP

A gend a link : Program Schedule – Delhi – AIORI

Key speakers :

- Mr. Anand Raje, CTO- AIORI & Trustee – IIFON
Anand Raje | LinkedIn
- Ms Pimmy Gandotra, P immy g andotra | L inkedIn

- Mr. Amitabh Singhal, Director Designate ICANN A
mitabh Singhal | LinkedIn
- Dr. John Jose, Vice Chair, IEEE India Council John
Jose | LinkedIn

Total Registrations : 95

IEEE INDIA COUNCIL **SHARDA UNIVERSITY** **niXi** **iFON**

IAYPC-2024 - IEEE India Council in Collaboration with India Internet Foundation **Sharda School of Engineering & Technology Department of Computer Science & Engineering**

PRESENTS

IEEE-IC: Standard Workshop and Hackathon 2024
21st September 2024

Speakers

- Dr. John Jose**
Associate Professor,
IIT Guwahati
Vice Chair, IEEE India Council
- Mr. Anand Raj**
Co-Founder, CTO @ India
Internet Foundation (IIFDN)
Internet Resiliency Researcher
- Amitabh Singhal**
Director Designate, Internet
Corporation for Assigned Names
and Numbers (ICANN), Internet &
Telecoms Policy & Regulations
- Dr. Pimpy Gandotra**
Telecommunications Standards
Development Society, India
(TSDSI)
- Prof. (Dr.) Panna Nand**
Professor & HOD, Computer
Science & Engineering, Sharda
University
- Dr. Anil Kumar Singh**
Professor & HOD, Computer
Science & Engineering, Sharda
University
- Dr. Rani Ashya**
Associate Professor - CSE, Faculty
Coordinator Technosha Sharda University
- Mr. Dharm Raj**
Assistant Professor - CSE, IEEE Student
Branch Counsellor Sharda University

For more details:
<https://portal.aiori.in/hackathon/>

ABOUT PROGRAM
Chance to participate in a thrilling hackathon.
Equip aspiring engineers and faculty with essential internet skills.
Provides a strong foundation for future technological innovations.
Covers key topics in internet engineering and standards.

Mr. Dharm Raj
IEEE Student Branch Counsellor,
Sharda University
Contact Number: 8920926826
Mail: dharm.rj@sharda.ac.in

Venue
APJ Abdul Kalam
Auditorium, RM. 008, Block 3
Computer Lab RM. 010 Block-1

Organizing Committee

- Prof. (Dr.) Mandeep Kaur, Advisor,
IEEE Student Branch SU
- Dr. Rani Ashya, Technosha
- Dr. Vishal Jain, Asso. Prof., SSET
- Dr. Sudeep Varshney, Asso. Prof., SSET
- Ms. Sapotlesha Kalita, Chairperson,
IEEE Student Branch SU

POSTER OF WORKSHOP NORTH ZONE



DR JOHN JOSE ADDRESSING THE AUDIENCE DURING THE INAUGURAL SESSION



MR. AMITABH SINGHAL SHARING HIS INSIGHTS AT THE INAUGURAL SESSION



TECHNICAL SESSION BEING CONDUCTED DURING WORKSHOP



Workshop North East Zone

Workshop date: 26th September 2024

Workshop venue: Royal Global University, Guwahati, Assam

Agenda link: Program Schedule – Guwahati – AIORI

Key speakers:

Raje | LinkedIn

- Mr. Anupam Agrawal, Chair, India Internet Foundation Anupam Agrawal | LinkedIn
- Dr. John Jose, Vice Chair, IEEE India Council John Jose | LinkedIn

Total Registrations: 100

IAYPC-2024-IEEE India Council in Collaboration with India Internet Foundation and The Assam Royal Global University

PRESENTS

IEEE-IC: STANDARD WORKSHOP AND HACKATHON 2024
26th September 2024

Speakers

 Dr. John Jose Associate Professor, IIT Guwahati Vice Chair, IEEE India Council	 Mr. Anand Raja Co-Founder, CTO@India Internet Foundation (IIFON) Internet Resiliency Researcher	 Anupam Agrawal Digital Governance ICT Standards Chevening Fellow IEC GRAC - Member PTI - Board Member TCS	 Prof. (Dr.) Y.S.R. Murthy Vice Chancellor The Assam Royal Global University	 Prof. (Dr.) Ankur Ganguly Dean Academics & Dean RSET The Assam Royal Global University
			 Dr. Anupam Das Convener, IEEE-IC Standard Workshop & Head of the Department, Royal School of Information Technology (RSIT)	 Dr. Ishita Chakraborty Associate Professor & Head of the Department, Department of CSE, RSET

For more details:
<https://portal.aiori/hackathon/>

POSTER OF WORKSHOP FOR NORTH EAST ZONE



MR ANUPAM AGRAWAL SHARING HIS INSIGHTS ON ICT AND STANDARDIZATION DURING THE WORKSHOP



SPEAKERS AND ORGANISERS FROM LEFT TO RIGHT: DR. ANUPAM DAS, MR. ANAND RAJE, D. ANKUR GANGULY, DR. JOHN JOSE, MR ANUPAM AGRAWAL, DR. ISHITA CHAKRABORTY



PARTICIPANTS GROUP PHOTO WITH SPEAKERS

Workshop – West Zone

Workshop date: 19th September 2024

Workshop venue: Sardar Patel Institute of Technology, Mumbai, Maharashtra

Agenda link: Program Schedule – Mumbai – AIORI

Key speakers:

- Mr. Anand Raje, CTO- AIORI & Trustee – IIFON Anand Raje | LinkedIn

- Mr. Manikandan K, Director, BIS (Bureau of Indian Standards) Manikandan K | LinkedIn
- Mr. Amit Gupta, Advisor, Memberships Development, TSDSI Amit Gupta | LinkedIn
- Dr. John Jose, Vice Chair, IEEE India Council John Jose | LinkedIn
- Dr. Mansi Subhedar, PHCET Mansi Subhedar | LinkedIn

Total Registrations: 115



POSTER FOR WORKSHOP WEST ZONE



PARTICIPANTS GROUP PHOTO WITH SPEAKERS



PARTICIPANTS PHOTO WITH SPEAKERS MR ANAND RAJE, DR JOHN JOSE AND DR. MANSI SUBHEDAR



SPEAKERS FROM LEFT TO RIGHT MR ANAND RAJE, DR JOHN JOSE AND DR. MANSI SUBHEDAR

Workshop – East Zone

Workshop date: 24th September 2024

Workshop venue: Heritage Institute of Technology,
Kolkata, West Bengal

Agenda link: Program Schedule – Kolkata – AIORI

Key speakers:

- Mr. Anand Raje, CTO- AIORI & Trustee – IIFON Anand Raje | LinkedIn
- Mr. Anupam Agrawal, Chair, India Internet Foundation Anupam Agrawal | LinkedIn
- Mr. Abhijan Bhattacharyya, Sr. Scientist, TCS. Abhijan Bhattacharyya | LinkedIn

Total Registrations: 87

Heritage Institute of Technology
Presents
**STANDARDS
WORKSHOP & HACKATHON**

**Organized by
IAYPC-2024, IEEE IC and IIFON**

September 24, 2024 || 9:30 a.m. onwards

Anand Raje
Co-Founder, CTO@ IIFON,
Co-Founder @ BASIS
Technologies Pvt. Ltd.

Abhijan Bhattacharyya
Consultant, Sr. Scientist @
Network Solutions & Services
TCS

Anupam Agrawal
Digital Governance | ICT
Standards | Chevening Fellow |
IEC GRAC - Member | PTI -
Board Member | TCS

Mousiki Kar
Associate Professor
Heritage Institute of Technology
Joint Secretary, IEEE IAYPC

POSTER FOR WORKSHOP EAST ZONE



MR ANUPAM AGRAWAL ADDRESSING THE AUDIENCE DURING INAUGURAL SESSION



MR. ABHIJAN BHATTACHARYA CONDUCTING HIS SESSION
ON TELECOM AND INTERNET STANDARDS



MR. ANUPAM AGRAWAL CONDUCTING
HIS SESSION ON ISO, ISE AND BIS



MR ANAND RAJE CONDUCTING TECHNICAL SESSION ON AI/RI



Diary of Events In & Around IC

Events in Fourth Quarter – 2024

October 2024

- 01 IEEE Day Celebrations
- Workshop - Drive of IEE Kolkota Section towards Net Zero Carbon Emission at 5.00pm Speakers: Megha Nath, Arjun P Gupta & Vivek Adhia. Online program.
- IEEE DAY Event 2024-SMART-D - organized a panel discussion followed by focused insights and interactive session at the council hall, IIST.
- Aura -Orientation session for freshers - IEEE SB CET, TVPM in collaboration with IEEE India Council Membership Development Committee, Offline.
- IEEE Day Poster Presentation Report: on Tuesday, Student Chapter of MKSSS's Cummins College of Engineering Pune.
- 01-02 NMITCON 202310 IEEE CESC Milestone Lecture 2023 Zoom meeting.
- 02 Curtain Raiser – AISYWLC 2024 Launch and address by Dr. Debabrata Das, Chair, IC.
- 03 IEEE WiE International Leadership Submit by WiE Madras Section at College of Engineering, Guindi.
- 03 – 07 IISC IEEE Summer School 2023: Enriching Educational Opportunities, by Bangalore Section.
- 03-04 IEEE R10 Asia Pacific 36-Hour International Affordable Medical Device Development Hackathon at VIT Vellore.
- 03-05 The IEEE Women in Engineering International Leadership Summit Chennai 2024, hosted by the IEEE WIE Madras Section Affinity Group.
- 04 IEEE VTS Kerala Chapter hosting a highly successful webinar titled “Machine Learning and AI for 6G and Beyond Networks”
- Virtual Panel Discussion organized by IEEE R10 Professional Activities Committee from 2.50 to 4.50 pm.
- “The Role of Professional Societies in Career Progression” organized by IEEE Computer Society Madras Section and Rajalakshmi Institute of Technology.
- IEEE Day Celebration at Mohandas college of Engineering, Anad, Kerala, LMAG IC Chair Er. Koruth P Varughese was the Chief Guest.
- 05 IEEE CCEW Student Branch and IEEE CIS CCEW Student Branch organized Technosphinx2.0 Tech

- Dumb Charades at MKSSS's Cummins College of Engineering for Women, Pune.
- 05-06 "Opportunities in the Vehicular Technological Field through IEEE" organized by IEEE Vehicular Technology Society (VTS) Kerala Chapter, hosted at ASIET, Kalady.
- 05-10 a Five-day Faculty Development Programme (Hybrid mode) on "Exploring New Frontiers in Power Systems and Power Electronics." Organized by Kochi Sub section.
- 06 InDIITA Workshop 2023 at IITB, Balgaluru.
- 08 A meeting of MDC in an online WebEx platform- Council and Section MD Meet.
Popular talk #3 by Dr. John Jose on 'Plan your Engineering Education for a Professionally Rewarding Career'
- 09 Webinar on Technical Education in the Industry at Panimalar Engineering College Chennai.
- 10 IEEE Day Celebrations at Oxford Engineering College, Bangalore, Ms. Sadhana Attavar VC, HTA delivered a talk.
- 12 Last date for Special Activities & Offers in 2025 Membership in connection with IEEE Day.
- 15 Inauguration of IEEE Women in Engineering (WIE) Affinity Group in Jaipur Engineering College and Research Centre (JECRC) by Sudeshna Choudhury, VC, WIE IC.
- 18 Big Data & Gen AI-Powered Innovation: A New Era of Possibilities: Under the guidance of Society Chapter Chair Dr.Varsha Harpale at LRDC Hall, PCCOE, Pune.
- 19 Section Students Congress of Hyderabad.
A hands-on workshop on Semi custom ASIC design flow, at CUSAT campus by Kochi Sub section.
Panimalar Engineering College, in collaboration with IEEE Madras Section, IEEE TEMS Madras Chapter organized Hackelite 2.0
The IEEE Volunteer Leadership Training Program, popularly known as VOLT 2024 at Grootan Technologies, Prince InfoCity Phase I, Perungudi, OMR, Chennai.
IEEE Computer Society Madras and the IEEE CS SBC at KARE (Kalasalingam Academy of Research and Education) organized a one-day in-person event
- 20 The IEEE Mini-POCO (Panel of Conference Organizers) 2024, an event organized under the umbrella of the IEEE Hyderabad Section.
- 21 "Personal Cybersecurity and Best Practices" organized by IEEE CS Madras, CSI Chennai, ACM Chennai, Hindustan Chamber of Commerce.
- 21-22 IEEE SSH 2024-Sustainable Solutions for Humanity. Inauguration on 21st Oct. 09.30am at KIET Auditorium by Dr. Anil Sahasrabudhe, Chair NETF. Prof. Preeti Bajaj and team hosted the hackathon supported by R10, IC, IEEE Hong Kong, KITE and Chitkara Universities.

- 22 Student Mentoring Program Fortnightly Popular Talk – The Disruption called Gen AI by Debanjana Dasgupta.
- 24 Conducted the “MEMs Training Program” in association with Anna University as a Nodal Centre, as IEEE Sensors Council Hyderabad Chapter has been selected as one of the chapters to conduct the program.
- 25 IEEE Hyderabad Section successfully organized the Industry Conclave - Translational Research to Entrepreneurial Ventures.
- 26 “Game Theory and Applications in Operations Management” webinar organized by IEEE CS Madras, ACM Chennai, CSI Chennai and the Hindusta Chamber of Commerce.
IEEE Student Chapter at Cummins College of Engineering for Women hosted the IEEE Xtreme 18.0 Coding Competition
- 27 ICIP 2024 Abu Dhabi, IEEE International Conference on Image Processing, SPS Kerala Chapter volunteers attended.

November

- 02 WiE Kerala organizes Saaga'24 at Cusat School of Engineering.
Professional Engagement Program and Victory Celebration at Hotel East Avenue by Malabar Sub section.
- 06 CONFLUENCE 2024 – a largest Industry Academia Meet at Rajagiri School of Engineering & Technology Kochi
“SIGNOX 3.0” organized by IEEE Student Branch of Jeppiaar Engineering College in collaboration with IEEE Madras Young Professionals and Signal Processing Society of IEEE SB JEC.
- 07 IEEE Computer Society, Madras, in collaboration with IEEECS SBC and IEEE SB at St. Joseph's Institute of Technology, successfully organized a one-day in-person event on “Trends in UI/UX Design.”
- 09 MTT-S/AP-S/EMC-S Joint Chapter Hyderabad Section and IEEE MTT-S/AP-S/EMC-S Pune Section jointly organized the second Symposium of research Scholars at DIAT, Pune.
An event ‘The Beyond Glass Barriers (BGB 2024) at Sabarmati Hall, Central University Kerala by Malabar Sub section.
- 10 Deadline – Call for Nominations IEEE Kerala Section Awards.
The Women in Power (WIP) Summit, held as part of the IEEE PES ISGT Asia Conference 2024, at Radisson Blu Atria in Bangalore, the event led by Dr. S. Harivardhini.
- 12 Student Mentoring Program Fortnightly Popular Talk – ‘Engineering Your Persona’ by Ms. Sumedha Walia.
- 12-13 “Hack-O-Holics 5.0” organized by IEEE Student Branch of Jeppiaar Engineering College, in

- collaboration with the IEEE Madras Section Young Professionals.
- 13 Membership development initiative at Symbiosis Institute of Computer Studies and Research, Pune, MD, offline, by MDC IC.
- 15 IEEE Returning Mothers Conference in IISC, Panelist Dr. Sudeshna.
- 16 Kolkata Section organized Students Congress at Heritage Institute of Technology. Kolkata Section organized the "Student Congress".
- 22 IEEE Sensor Council, Hyderabad Chapter, has organized a DL talk on "Ultra Low Power Sensor Interfaces for IoT"
- 23 IEEE CS Madras, CSI Chennai and ACM Chennai successfully organized a highly engaging webinar on "AI, ML, and AIoT: A Unified Approach for IoT Developers".
- 25 "The Role of AI in Improving Cybersecurity and Data Privacy" hosted by IEEE Madras Section Education Society.
- 26 Student Mentoring Program Fortnightly Popular Talk – 'Emerging Semiconductor Ecosystem in India – Golden Era of Opportunities' by Chitra Hariharan.
- 28 Title of the talk: Semiconductor Technology shaping the Future Speaker: Dr. Mousiki Kar, Associate Professor, Deptt. Of ECE, Heritage Institute of Technology, Kolkata organized by LMAG IC and LMAG Kolkata Section.
- 29 Computer Security Day Celebrations IEEE CS Madras, SETS, CSI, ACM, and NCoE-DSCS successfully organized a hybrid-mode event.
- 30 Fellow Elevation program coordinated by Dr. Rajashree Jain, attended by many members.
- IEEE R10 WIE Chairs Meeting hosted by IEEE WIE Bangalore Section as part of Bangalore Technology Conclave 2024, Speaker Sudeshna.
- MTT-S/AP-S/EMC-S Joint Chapter of Hyderabad Section organized its annual flagship 14th Acharya J C Bose Memorial Lecture on "Small Satellite Constellations– Global Applications Scenario".
- IEEE VIIT Student Branch hosted the "IoT Brush-Up Session".

December

01. Fellow Elevation Seminar - Online, WebEx, by MDC, IC. Speakers Dr. K V S Hari, Dr. V Bhuvaneswari, Dr. Akilko Sugiyama, Dr. Debabrata Das and Dr. S V Kulkarni.
- 03 Farewell event for the outgoing IEEE VIIT SB Committee Members of the IEEE VIIT Student Branch. The farewell event for the outgoing IEEE VIIT SB Committee.
- 05 MOVE Outreach program at Government Middle School, Kuhera.
- Panel discussion on "Future Proofing your Career" in connection with MOVE Outreach program.

- 05-07 3 Day Workshop on RF DESIGN AND SIMULATION in association with IEEE AESS Hyderabad Section and Dept of ECE, Osmania University.
- 06-07 10th IEEE International Women in Engineering (WIE) Conference on Electrical and Computer Engineering 2024 (IEEE WIECONECE 2024) at the College of Engineering, Guindy.
- 07 MOVE Outreach program at Government Higher Secondary School, Uperwara.
- 07-08 AISYWLC 2024 - All India Student Young Professionals Women in Engineering Life Members Congress, at College of Engineering, Guindi, Anna University, Chennai, Tamil nadu organized by IEEE IC & IEEE Madras Section.
- 08 LMAG Executive Meeting at Chennai, along with AISYWLC 2024.
- 09 Webinar on The Fourth Industrial Revolution and 100 Years of AI (1950-2050) by IEEE CS Madras, CSI Chennai, ACM Chennai, and HCC.
- 10 Combined meeting with LMAGIC and LMAG Kerala at Trivandrum. Dr. Jacob Kulangara, R3 LMC Coordinator and Member MGA LMC was the guest of honour.
- 13 PUNE-CON-2024 an International Conference at Defence Institute of Advanced Technology, Pune.
- 14 In IEEE CALCON 2024 at Jadavpur University, Kolkata arranged a WIE Track and in it a Panel Discussion "Leveraging AI for a Sustainable Future" was headed by Sudeshna, the Co-chair.
- 14-15 CALCON 2024 – a flagship conference in Jadavpur University Campus.
- 15 IEEE LMAG Delhi Section and IEEE Delhi Section Members visited Rashtrapati Bhawan, Delhi.
The Sourajala project, implemented by IEEE SB NSSCE in collaboration with IEEE SIGHT Kerala Section.
Eu-reka 2024 valedictory at Hotel Rameegrand, Pune.
- 16 MOVE Outreach program at Saraswati Shياهو Mandir Higher Secondary School, Jagdish Mandir, Jabalpur, MP.
- 16-17 IEEE ANTS Conference, a grand finale of Hackathon at IIT Guhawati.
- 17 IEEE LMAG Delhi Section and IEEE Delhi Section Members visited IIIT Delhi.
The roundtable on "Sustainable Lighting: Innovations in Energy Conservation" organized at MCCIA Trade Tower, Pune, by the PES-IASChapter, IEEE Pune Section.
- 18-19 Two Day Workshop on AI and AI Driven Systems using Mathlab and Simulink by Malabar Sub section.
- 19 MOVE Outreach program at Oriental Institute of Science & Technology, Bhopal, MP.
- 19 Technical Talk Brain Computer Interface in Healthcare, by LMAG IC.

- 19-21 INDICON 2024 – Annual flagship event of India Council at IIT Kharagpur. Theme: Next-Gen Wireless Communication & Networks organized by IEEE IC & IEEE Kharagpur Section.
- 23 The PES-IAS Chapter organized a Distinguished Lecture Program (DLP) on “Challenges and Opportunities of Energy Transition” delivered by Dr. Dean Sharafi, Strategic Advisor, Energy Transition at the Australian Energy Market Operator (AEMO), Australia.
- 24 MOVE Outreach program at MM Scyhool, Airport Road, Chhattisgarh.
- 29 AGM of LMAG Delhi Section in Room 11, Dr. Abdul Kalam Block, Netaji Subhas University of Technology, Dwarka, New Delhi.
- 31 Valedictory Talk by Koruthu P Varughese, Chair LMAG India Council delivered the on IGNIUM 2024 - Online.
- LMAG IC Chair Er. Koruthu Varughese delivered a talk and presented the activity report ed LMAG IC of 2024 in Japan.

Forthcoming Events

January 2025

- 08 R10 Educational Activities Committee 2025 Training 07.30 am IST.
- 11 IEEE CALCON 2024 of Kolkota Section at 10.00 am. Online
- 18 The First Executive Meeting of IEEE IC 2025 at 07.00 pm. Online.
- 23-25 6th IEEE International Conference on Control Communication & Computing (ICCC 2025) organized by CET Thiruvananthapuram, sponsored by IEEE Kerala Section.
- 25 Inaugural function of Bhuvaneswar Section at 3.00 pm. Chief Guest Shri Deepak Mathur, Guest of Honours Prof. Debabrata Das and Prof. Perna Gaur.
- 29 A virtual session on ‘How to prepare Camera Ready Paper for IEEEExplore’, by Dr. Lakshminarayana Sadasivuni, VC Professional Activities, IC.
- Low Voltage, Low Power Analog Design for Application in Satellite. Time: 12:00 PM IST
- Mode: Hybrid Mode (Sir J C Bose Hall, 6th Floor, Academic Complex), Google Meet Link: <https://meet.google.com/isp-gyuj-ovw>
- 30 Talk on ‘SLM for Automotive Functional Safety’ by Ms. Jyothika Athavale, RAS Director – CTO Office, Synopsys, President Emeritus-IEEE Computer Society. Online.
- 31 The IEEE APS/MTT-S Student Branch Chapter of IIT (ISM) Dhanbad, in association with the IEEE AP/MTT-S Kolkata Section, IEEE India Council LMAG and IEEE Delhi Section LMAG organized a talk by Prof. Sudhanshu S. Jamuar

April 2025

- 28 Last date for registration 2025 IEEE Education and Training in Optics & Photonics (ETOP)

Bangalore Section



IEEE Bangalore Section invites submissions for IEEE Bangalore Humanitarian Technology Conference (B-HTC) 2025 on the theme of Sustainable Development Goal 11 (SDG 11): Sustainable Cities and Communities.

The IEEE Bangalore Humanitarian Technology Conference (B-HTC) is a premier flagship cross-disciplinary annual conference of the IEEE Bangalore Section. This year, B-HTC 2025 will be co-hosted by IEEE Bangalore Section & IEEE North Karnataka Subsection at KLS Gogte Institute of Technology College, Belgaum, on 25-26 April 2025.

Conference Focus

This edition of the conference is centered around Sustainable Development Goal 11: Sustainable Cities and Communities.

Conference Themes and Technical Topics

- AI and Machine Learning for Urban Sustainability
- Blockchain for Urban Services
- IoT-Enabled Smart Cities
- Green Infrastructure and Renewable Energy Systems
- Cyber-Physical Systems for Urban Resilience
- 5G/6G and Beyond for Urban Connectivity
- Smart Water and Waste Management Solutions
- Autonomous Systems for Urban Maintenance
- Big Data and Urban Analytics
- Digital Twins for Urban Simulation

Important Dates

- Paper Submission HARD Deadline: **06 January, 2025**
- Notification of Acceptance & Registration Open: 10 February, 2025
- Camera Ready Submissions: 28 February, 2025
- Conference Date: 25-26 April 2025

Visit: bhtc-2025.ieeebangalore.org or contact bhtc2025@ieeebangalore.org

Bhubaneswar Section

Formation of IEEE Bhubaneswar Section

Dear Execom Members,

I am pleased to share the approval from IEEE USA regarding IEEE Bhubaneswar Section from IEEE USA.

The formation of the IEEE Bhubaneswar Section. We are extremely thankful to Kolkata Section, R-10 and MGA Board for approving the new section.

As the Interim Chair I welcome you all to the newly formed section and its activities.

I thank you all for your effort in building a larger space for IEEE in India. Now onwards we will work together for further growth of the IEEE India Council and IEEE global at large. IEEE Bhubaneswar Section will take the leadership edge in various activities.

Looking forward to your help and support in future endeavours.

Thanking you all,

Prof. S R Samantaray

Interim Chair

IEEE Bhubaneswar Section

Welcome

Bhubaneswar Section

Bhubaneswar Section

The invitation is a rectangular card with a white background and a decorative border of stylized daisies with yellow centers and white petals. At the top center is the IEEE logo in blue, with 'Bhubaneswar Section' written in a smaller blue font below it. The main text is centered and uses a mix of blue, red, and green colors. It invites guests to an inaugural function on January 25th, 2025, at 3:00 pm in the Auditorium, Campus-7, KIIT DU. It lists three guests of honor: Shri Deepak Mathur, Prof. Debabrata Das, and Prof. Perna Gaur, all in blue text with their titles in red. The closing text 'Your gracious presence will be highly solicited' is in green, and the IEEE Bhubaneswar Section name is at the bottom in blue.

IEEE
Bhubaneswar Section

IEEE Bhubaneswar Section
Cordially invites you to the
Inaugural Function
on 25th January 2025 at 3:00 pm in the
Auditorium, Campus-7, KIIT DU

Chief Guest
Shri Deepak Mathur,
Member, MGA Board
2024 IEEE VP, MGA

Guest of Honour
Prof Debabrata Das,
Immediate Past Chair, IEEE India Council

Guest of Honour
Prof Perna Gaur
Chair, IEEE India Council

Your gracious presence will be highly solicited

IEEE Bhubaneswar Section

Kerala Section

Call for Host for Bootcamp on Allied Technologies for Drones

We are thrilled to announce the Call for Host for Bootcamp on Allied Technologies for Drones, organized by NIELIT Calicut, funded by MeitY, Govt. of India in association with IEEE Kerala Section, IEEE RAS Kerala Chapter and Kerala Startup Mission (KSUM).

Duration: 5 Days /40 hours

Mode: Physical. Some sessions will be online.

Target audience: Students (Pre Final onwards) and graduates of B.Tech/M.Tech (ECE/EEE/AEI/CSE/IT/R&A/Mechatronics and allied branches)

Venue: Can be offered on campuses which can handle the following responsibilities;

1. Mobilize 90 eligible candidates for the programs.

2. Offer the necessary infrastructure as follows;

2a. Lecture Hall: That can accommodate at least 90 candidates - 1 No (or that can accommodate 45 candidates - 2 Nos.), with Projector(s), Board etc

2b. Lab: That can accommodate N (where $N = 90/2$) Candidates with $N/2$ Computer terminals. Computers should be having Windows 11 (64 bit) and min 4GB Memory (Should be able to install softwares like MATLAB, Python IDEs, Xilinx Vivado etc.).

Tentative schedule: Jan/Feb 2025

The schedule of topics covered will be shared with the host institution in advance. Institutions interested and which can offer the above requirements may only consider filling out this form below. Selection of the host institution will be at the sole discretion of the organizers.

Last date of application: 9th January 2025

Apply here: <https://bit.ly/CFH-DroneBootcamps2025> (Kindly upload the completed consent letter provided in the attachment)

Kolkata SectionIndustry Session: 11th Jan 2025, 10AM

<p>Plenary talk</p> <p><i>5G and Beyond</i></p>  <p>Abir Biswas General Manager & Head of Kolkata Location Ericsson Cloud Services</p>	<p>Panel discussion: Impact of AI in Academia and Industry</p>			
	 <p>Moderator Dr Pallab Ganguly Industry Chair IEEE Calcon 2024 CISO Generation, CESC</p>	 <p>Mr. Subhamoy Chakraborti CTO, ABP Pvt Ltd Industry Chair, IEEE Kolkata Section</p>	 <p>Prof. Amlan Chakrabarti Professor & Director A.K. Choudhury School of IT, CU Adj. Prof. IIIT Delhi</p>	 <p>Mr. Partha Sengupta Head of ITC IT Shared Services</p>
	 <p>Mr. Sourav Das Group CDIO, Rupa & Co.</p>	 <p>Dr. Arindam Sarkar HOD, CSE Ramakrishna Mission Vidyamandira, Belur Math</p>	 <p>Mr. Srimanta Kundu Ericsson</p>	<p>Sponsored by:</p>  <p>ERICSSON</p>

IEEE Kolkata Section invites all of you to join the IEEECALCON 2024

Industry Session Webinar on 11th January 2025, Saturday at 10AM IST. Joining Link:
<https://meet.google.com/rjz-bxjn-ejn> Plenary talk will be delivered by Mr. Abir Biswas,
 Ericsson, on "5G and Beyond"

followed by a Panel discussion on "Impact of AI in Academia and Industry" The Panelists
 are: Mr. Subhamoy Chakraborti, CTO,

ABP Pvt Ltd, Industry Chair, IEEE Kolkata Section Prof. Amlan Chakrabarti, Professor &
 Director,

A.K. Choudhury School of IT, CU, Adj. Prof. IIIT Delhi

Mr. Partha Sengupta, Head of ITC IT Shared Services

Mr. Sourav Das, Group CDIO, Rupa & Co. Dr. Arindam Sarkar, HOD, CSE, Ramakrishna
 Mission Vidyamandira, Belur Math Mr. Srimanta Kundu, Ericsson The panel discussion will be
 moderated by

Dr. Pallab Ganguly, Industry Chair CALCON 2024, CISO Generation, CESC Looking forward
 to your participation on the day.

Please share with your connections to make this event a success.

First Executive Committee Meeting - 2025

The **First Executive Committee Meeting** of **IEEE India Council** for the year 2025 is scheduled as follows:

Date: **18 January 2025**

Time: **07:00 PM IST**

Mode: **Online** (*Meeting link will be shared later*)

To ensure effective planning for the year ahead, each entity is requested to update their **Plan of Activities for 2025** in the Google Slide template provided in this email.

Kindly follow the guidelines below:

Access the template using the given link: [\[Click here to access Google Slides\]](#).

Update the corresponding slides with your plan, limiting your content to a **maximum of two slides**.

Complete your updates in the template by **16 January 2025** to allow for consolidation and review.

Let us work together to make this an eventful and impactful year for the IEEE India Council.

Thank you.

Regards,

Nandan S.

Secretary - IEEE India Council

Treasurer - IEEE Kerala Section

Vice-Chair - Internet Society (ISOC) - Trivandrum Chapter

Assistant Director, LBS Centre for Science & Technology

Thiruvananthapuram - 695 033, Kerala. (Govt. of Kerala Undertaking)

www.lbscentre.kerala.gov.in

Ph: 9446189453, 9744089453

VLSI Design Conference 2025



Cheers to our Academia Partners!

Partnership for igniting **young minds** across the Globe

India's Premier Conference on VLSI Design & Embedded Systems

4 - 8 Jan, 2025 | The Leela Palace Bengaluru , India | www.vlsid.org

Scan to Register



Fostering Global Innovation Through Academic Partnerships!

We're excited to partner with prestigious institutions worldwide for the VLSI Design & Embedded Systems Conference 2025. Together, we're igniting young minds and shaping the future of innovation in VLSI and embedded systems.

4 - 8 January 2025 | The Leela Palace, Bengaluru, India

Register Now: <https://vlsid.org/tickets/>

2025 IEEE Conference on Education and Training in Optics and Photonics (ETOP)



19-22 May 2025 • Glasgow, Scotland

www.etop-conference.org

Paper Submission Extended Deadline: **27 January 2025**

[Submit Paper](#)

Submit your research to ETOP by 27 January 2025.

The [ETOP](#) conference and its leadership are dedicated to fostering opportunities that support the participation, engagement, and advancement of everyone within the photonics and optics community. Through its topics and programming, the conference will highlight the crucial role of diversity in driving innovation. Our policy is to continuously enhance our practices to cultivate and sustain an environment that mirrors the vibrant diversity of the photonics and optics scientific community.



2025 IEEE Annual Election President-Elect Candidates and Petitioner

2026 IEEE President-Elect Candidates and Petitioner

		
Jill I. Gostin Nominated by IEEE Board of Directors	David Alan Koehler Nominated by IEEE Board of Directors	Manfred "Fred" J. Schindler Seeking Nomination by Petition

The IEEE Board of Directors has nominated two candidates for 2026 IEEE President-Elect (listed in alphabetical order) for the 2025 IEEE Annual Election:

Jill I. Gostin and David Alan Koehler have been nominated for 2026 IEEE President-Elect by the IEEE Board of Directors. A lottery process, which indicated no preference has determined the listing order of the candidates. In addition, **Manfred "Fred" J. Schindler** ([sign petition](#)) is seeking nomination by petition for 2026 IEEE President-Elect.

The deadline for petition intention for 2026 IEEE President-Elect office is 31 December 2024 (12:00 noon ET/17:00 UTC). IEEE members who would like to petition need to submit their petition intention statement to the IEEE Board of Directors at elections@ieee.org.

At least one year of IEEE Board of Directors service is required for all candidates or petitioners for the office of IEEE President-Elect. Visit [ieee.org/pe26](https://www.ieee.org/pe26)

Call for One-Page Abstracts!

Miscellaneous Announcements



Submit a one-page abstract to the [2025 IEEE International Symposium on Biomedical Imaging \(ISBI\)](#). Whether you are an academic, a clinician, or an industry professional, ISBI provides a unique platform to share your work, learn from others, and engage with the global biomedical imaging community.

ISBI 2025 will be held in Houston, Texas, United States, from 14-17 April 2025. This scientific conference is dedicated to the mathematical, algorithmic, and computational aspects of biological and biomedical imaging, across all scales of observation.

Aims and Scope

The one-page abstracts track at ISBI 2025 is designed to achieve two primary objectives:

- Fostering scientific communication and biomedical-clinical engagement
- Showcasing published work from top-tier technical and clinical journals

Through this track, ISBI 2025 aims to bridge communities, stimulate innovation, and promote the dissemination and practical application of cutting-edge methodologies and findings in biomedical imaging. This expanded scope underscores ISBI's commitment to being the premier forum for advancing bio-imaging research and practice.

IEEE INDIA COUNCIL

EDUCATIONAL ACTIVITIES COMMITTEE

Presents
A Webinar On

SLM for Automotive Functional Safety

Speaker
Mrs. Jyotika Athavale
RAS Director - CTO Office, Synopsys
President Emeritus, IEEE Computer Society

January 30, 2025
7.00 PM - 8.00 PM (IST)

Organizer
Dr. T. Sree Sharmila
Vice Chair, Educational Activities Committee, IEEE India Council

JOIN ONLINE
SCAN TO REGISTER



IEEE INDIA COUNCIL

All India WIE Chair's Meet
Meet & Greet



Prof. Priyanka Gaur
Chair, India Council

Dr. Ashwini Agarwal
Vice Chair, India Council

Dr. Usha Rani
Bangalore section

Dr. Umamathi Subudhi
Bhubaneswar Section

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