

## IEEE R10 DIRECTOR'S MESSAGE

As we bid farewell to 2023, it is a time to reflect on what has IEEE Region 10 achieved, Challenges, and Plans for the future.

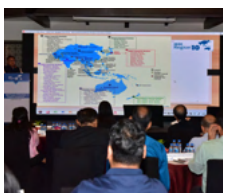
IEEE Region 10 has maintained a strong membership growth throughout 2023. [Page 2](#)

## IEEE R10 ROBOTICS COMPETITION 2023

The final rounds of the 2023 IEEE Region 10 Robotics Competition were held on 09 - 10 December at the Faculty of Engineering, Chulalongkorn University, Bangkok, Thailand. The IEEE Thailand Section hosted the event and made superb arrangements for the teams to pitch their projects in the auditorium and demonstrate them to the judges in the display area. [Page 8](#)



## IEEE R10 SECTION CHAPTER SYMPOSIUM 2023



3rd IEEE R10 Section Chapter Symposium 2023 was organized by the IEEE R10 Section Chapter Committee from 1 to 3 December

2023 at the Hotel Novotel Goa Candolim, Goa, India. [Page 10](#)



## IEEE R10 SYMPOSIUM (TENSYP) 2023

IEEE R10 Symposium (TENSYP) was held in Canberra, Australia from 6-8 September 2023 at the University of New South Wales, Canberra Campus. The theme for this year's TENSYP was "Technology for an Autonomous World". [Page 3](#)

## IEEE R10 HUMANITARIAN TECHNOLOGY CONFERENCE (HTC) 2023

The 11th IEEE R10 Humanitarian Technology Conference (HTC) 2023, was hosted by the IEEE Gujarat Section in the vibrant city of Rajkot on 16 -18 October 2023. The journey of R10 HTC began in Japan in 2013 and has since traversed various regions, leaving an indelible mark on the global technological landscape. This year, Gujarat proudly hosts the conference, marking its debut in the state. [Page 4](#)

## IEEE R10 TECHNICAL CONFERENCE (TENCON) 2023

IEEE Thailand Section has organized the 35th IEEE R10 Technical Conference (TENCON 2023) in Chiang Mai, Thailand, from 31 October to 3 November 2023. This year's conference theme was "Engineering Tomorrow: The Sustainability-driven Innovation for Post Outbreak Era." [Page 7](#)

## CLIMATE CHANGE ROUND-TABLE DISCUSSION ON INDONESIAN TV WITH IEEE PRESIDENT

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# IEEE R10 Director's Message

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The October 2023 Membership statistics showed an overall growth of more than 26,000, or 17.7% compared to the same month in 2022. At the time of writing on 15th December, 40% of IEEE members are residing in the Asia-Pacific Region (R10), and a similar percentage for the Society Members. Based on the October figures, out of the over 175K members in R10, 47.3% are High-grade members, 15.4% are Graduate Students, and Student Members made up 37.3%. This is reflected in the high percentage of Student Branches (48.4%), SB Affinity Groups (54.5%), and SB Chapters (53.8%), in R10 as compared to the rest of IEEE.

These spectacular results are mainly due to the efforts of all the volunteers and leaders within the Region, who have worked tirelessly in running many activities and projects, providing services and programs for IEEE members, as well as the community. Many of such activities are reported in this, as well as previous editions of the R10 Newsletter. However, there are many more that were run locally, and are unknown to others!

On the other hand, a strong membership number is also associated with Challenges. The retention and renewal rate of R10 membership do need to be improved, in particular, among the Graduate Student and Student Members. In addition, many student branches and organization units (OU's) associated with the SB's are under consideration to be dissolved, due to the drop of memberships, or lack of activities over a few years. This is highly undesirable, reflecting a waste of resources and opportunities. The Region will need to focus in 2024 on the issue of membership renewal/retention, in addition to the maintenance of the momentum of recruitment.

As regards Plans for the future, the IEEE Region Realignment for R10 will lead to many major activities in R10 in the next few years. The Realignment is due to occur on 1st January 2028 and much work will need to be done on the Election, Regional Offerings, Financial arrangement, Future Management and Governance framework, as well as the need to increase the pool of volunteers and leaders for various roles in the future R10 (North Asia), and R11 (South Asia and Pacific).

We are thankful that 2023 has been successful, judging from the number of members and activities within the Region. I'd like to thank every member of the 2023 R10 Executive Committee, who has put in their weight and achieved the goals and objectives of their respective portfolios.

While we acknowledge and recognize the names and faces of every ExCom member from the IEEE R10 Website, we must not forget all other volunteers and members, who have given their time and efforts in helping or executing the activities within the Region. They are the real heroes, who contributed to the Mission and Vision of IEEE, advancing technologies for humanity! To them, I salute.



Wishing every reader and member, a prosperous and happy 2024.

**Lance Chun Che Fung**  
IEEE R10 Director 2023-2024

## More IEEE R10 Newsletter Interviews with IEEE Leaders

### Tom Coughlin - IEEE President-Elect 2023



### Prof Takako Hashimoto - IEEE R10 Director - Elect 2023-24



# IEEE Region 10 Symposium (TENSYMP) 2023

Ambarish S Natu, General Chair, TENSYMP 2023

*Contd. from page 1*

The IEEE Australian Capital Territory (ACT) Section made history by becoming the smallest section in history to ever have hosted TENSYMP. The highlight of this year's TENSYMP was the Gala Dinner hosted at the Australian Parliament House. The delegates enjoyed the tour of the Parliament House along with enjoying the hospitality. Participants from 21 countries participated in this year's TENSYMP either joining us online or attending the conference in person.

TENSYMP 2023 attracted 146 papers in total of which 81 papers were finally accepted into the conference proceedings giving an acceptance ratio of 55%. TENSYMP 2023 had two special sessions as part of the symposium one on Artificial Intelligence and the other on Climate Change. A Climate Change Workshop on the topic of "Building Energy Security in the Asia-Pacific: Challenges and Opportunities" was organized inviting members from the Australian Government agencies, Academia and Industry.

TENSYMP 2023 featured three keynotes as below:

1. Prof. Hussein Abbas on Open Challenges in Artificial Intelligence
2. Jessica Bian on Advancing Innovation in Grid Resilience and Edge Technologies
3. Cibby Pulikkaseril – Where's my self-driving car, and why did you lie to me?

Other guest speeches were from Australian Government Agencies as follows:

1. Dr Rohan Baxter from the Australian Taxation Office/Digital Transformation Office on the topic of Data Science
2. Dr. Tim Burgess from IP Australia on the topic of Intellectual Property.

IP Australia hosted a pop-up show and tell booth at TENSYMP 2023 where they were engaging with attendees explaining to them how the process of patenting works and what steps one could take to protect their intellectual property. IP Australia showcased what options, funding, and resources were available to potential applicants planning to apply for a patent.

TENSYMP 2023 had a Women in Engineering and Young Professionals session organized as well which attracted guests from the Australian armed forces and academia, sharing their experience and journey in Engineering.

IEEE Standards Association hosted an exclusive event at TENSYMP 2023 on 7 September 2023. It featured speakers talking on the topic of "Importance of Standards on Emerging Technologies to Industry and Public".



*Guests at reception of TENSYMP 2023*

Reihana Mohideen, Principal Advisor at the Nossal Institute, The University of Melbourne, delivered a session on "Gender Equality and Social Inclusion and Technology." The event gained further momentum with a dynamic panel discussion on "A Just Transition: Why Diversity, Gender Equality, and Inclusion are necessary." Guiding the discourse was Iven Mareels, Executive Dean at the Institute for Innovation, Science, and Sustainability, Federation University Australia. The diverse panel included Jaimes Kolantharaj, Senior Energy Specialist at the Asian Development Bank, Reihana Mohideen, and Lily O'Neill, Senior Research Fellow at Melbourne Climate Futures, The University of Melbourne. Their insights echoed the imperative of fostering diversity, gender equality, and inclusion for a just and sustainable transition, providing a comprehensive exploration of these critical topics at the intersection of technology and societal progress.

For more memories from TENSYMP 2023 visit the website and Facebook page for more photos.

<https://www.facebook.com/groups/675889907733859/>



*Participants of TENSYMP 2023*

# IEEE R10 Humanitarian Technology Conference (HTC) 2023

R B Jadeja, General Co-Chairs-HTC 2023



*Inauguration of HTC 2023*

*Contd. from page 1*

With a record-breaking 692 submissions, this year's conference showcases a diverse array of research. Our dedicated team of 56 track chairs, co-chairs, and 823 reviewers rigorously evaluated each submission, ensuring a stellar program with a 31.35% acceptance rate.

The IEEE R10 Humanitarian Technology Conference (HTC) 2023 was graced by luminaries whose insights illuminated the event. Prof. Saifur Rahman, 2023 IEEE President and CEO, captivated attendees as the keynote speaker, setting an inspirational tone. Another distinguished presence was Prof. Lance Fung, IEEE R10 Director, 2023-2024. His wealth of knowledge and commitment to advancing technology underscored the conference's significance.

The speaker lineup continued with Prof. Kukjin Chun, Prof. Jyotika Athavale, Dr. Maike Luiken, Dr. Rakesh Kumar, Prof. Shaikh Fattah, and Ms. Emi Yano, each bringing a unique perspective. The conference was enriched by diverse voices, showcasing the breadth and depth of talent shaping the future of technology and engineering.

The conference spans 23 tracks, featuring 19 Regular tracks and 4 Special Tracks, promising a wealth of presentations on original research. The IEEE R10 HTC 2023 witnessed a convergence of thought leaders and experts. Esteemed speakers, including Dr. Sudeendra Kaushik, Mehul Raval, and Preeti Bajaj, shared their profound wisdom. The event featured enlightening tutorials, covering diverse topics like "Fake News Detection" and "6G Wireless Communication Systems." Noteworthy workshops, such as "Scholarship of Teaching and Learning," provided hands-on experiences. The conference fostered interaction through diverse avenues, including an Industry Conclave, HTA Congress, and workshops on ethics and sustainable development.

The success of R10 HTC 2023 is a testament to the dedication of over 50 volunteers, track chairs, reviewers, and special session organizers. Marwadi University's unwavering support, both in logistics and volunteers, played a pivotal role in orchestrating. We extend our gratitude to the sponsors whose financial support made this conference possible. Their commitment reflects the collaborative spirit that defines the IEEE community.



*Participants at HTC 2023*



*Speech by Prof. R.B. Jadeja  
General Chair HTC 2023*

# R10 HTA Impact Congress at HTC 2023

Emi Yano, IEEE R10 HTA Committee Chair



*Distinguished guests at IEEE R10 HTA Impact Conference 2023*

The "IEEE R10 HTA Impact Congress 2023" held in Gujarat, India, from October 15-18, was a significant regional event organized by the IEEE R10, covering Asia and the Pacific. This congress, presented by the IEEE R10 Humanitarian Technology Activities (HTA) Committee, took place within the larger context of HTC 2023.

The congress served as a dynamic platform, uniting a diverse community of technology enthusiasts, researchers, and professionals. With a focus on HTA, the event showcased a collective commitment to leveraging technology for the betterment of humanity. Participants engaged in the exchange of ideas and innovations, emphasizing the role of technology in addressing humanitarian challenges.

## **SIGHT Chairs / HTA volunteers Meetup & Networking Dinner**

The IEEE HTA Congress commenced with a dynamic meetup of SIGHT chairs and HTA volunteers, setting the stage for impactful discussions. Professor Lance Fung, Director IEEE R10, delivered the guest talk that delved into the global significance and regional impacts of the HTA Platform, highlighting its role in driving humanitarian technology initiatives. Emi Yano, IEEE R10 HTA Chair, delivered a warm welcome, acknowledging past efforts and expressing aspirations for the future. Representing the Kerala Section Prof. Sunitha Beevi K shared their inspiring journey to winning the 2023 R10 HTA Outstanding Section Award. Lightning talk by Deepak Mathur, Past Director IEEE R10, emphasis on partnerships underscored collaboration's transformative potential.

## **HTB Capacity Building Workshop**

Day 2 of the IEEE R10 HTA Impact Congress 2023 centered on the HTB (Humanitarian Technology Board) Workshop at the MUIIR Centre. Prof. Parkash Lohana laid a profound theoretical foundation online, while hands-on approach bridged concepts to real-world applications.

Attendees actively participated, delving into discussions, asking questions, and collaborating on real-world scenarios.

## **One-Day Trip to Gir Forest**

Day 3 of the IEEE R10 HTA Impact Congress 2023 unfolded in the picturesque Gir Forest, offering participants a day of unique experiences amidst nature's beauty. A tree planting initiative underscored commitment to environmental responsibility, adding a profound layer to the day.



*Participants at the field visit*

## **Session on sustainable development Plan for SYWL**

On October 18th, the IEEE HTC 2023 conference attendees gathered in the grand Outer Seminar Hall of the Tagore Building for a day devoted to sustainable development, with a special focus on SYWL (Students, Young Professionals, Women in Engineering, and Life Members). The opening ceremony set an anticipatory tone, emphasizing the pivotal role of sustainable development in our ever-changing world. Emi Yano's talk inspired active participation in programs promoting gender equality, individual rights, self-development, and societal solutions.

The Interactive Session on HTA provided a dynamic platform for collaboration, emphasizing the collective approach required to achieve sustainability goals. A special networking session brought together SIGHT volunteers and luminaries for insightful discussions on the UN's 17 sustainability goals, showcasing the tangible impacts of humanitarian initiatives on sustainable development.

# IEEE R10 Technical Conference (TENCON) 2023

Supavadee Aramvith, General Chair, TENCON 2023



Day 1 of TENCON 2023 with guests

TENCON 2023, the flagship conference of the IEEE Region 10, witnessed an overwhelming response with a total of 381 paper submissions from 24 countries. The rigorous review process, involving 560 Technical Program Committee members from academia and industry, ensured a high-quality selection with an acceptance rate of 74%.

Distinguished keynote speakers graced the event, including Prof. Saifur Rahman (2023 IEEE President), Mr. Thomas Coughlin (2023 IEEE President-Elect), Mr. Jeff Adie (Nvidia, Singapore), Joanne Wong (IEEE Entrepreneurship Chair), Dr. Jing Dong (IEEE Humanitarian Technology Board), Dr. Yu Yuan (President, IEEE Standard Association), and Dr. Emi Yuda (Tohoku University, Japan).

The comprehensive program comprised 53 technical sessions for oral presentations, along with a dedicated poster session. TENCON 2023 offered workshops such as the IEEE Humanitarian Technology Board Workshop on the 2030 SDGs Game and Humanitarian Project Proposal, IEEE Entrepreneurship Asia Forum, IEEE Region 10 WIE Affinity Group Chairs and Volunteer workshop, IEEE Standard Association, and IEEE R10 Industry tutorial workshop.

The conference also hosted an Interactive Workshop on Climate Change, delving into its causes, effects, and potential solutions.



Keynote sessions of TENCON 2023

Additionally, the IEEE ComSoc WICE Panel Discussions on Sustainable Innovations provided valuable insights into use cases and their importance.

The successful conclusion of TENCON 2023 can be attributed to a robust organizational team and the generous sponsorship from esteemed patrons, including IEEE Humanitarian Technology Board, IEEE Entrepreneurship, Thailand Convention and Exhibition Bureau, Provincial Electricity Authority (PEA), Metropolitan Electricity Authority (MEA), Global Power Synergy (GPSC), Electricity Generating PCL (EGCO), Hitachi Energy, National Telecom PCL (NT), Electrical Generating Authority (EGAT), and Chulalongkorn University Learning Innovation Center.

TENCON 2023 not only served as a platform for presenting cutting-edge research but also fostered collaborative discussions on emerging technologies and their societal impact, solidifying its standing as a premier IEEE conference in the Asia-Pacific region.



Guests and participants at the reception of TENCON 2023

## IEEE R10 NEWSLETTER COMMITTEE 2023

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## Climate Change Round-Table Discussion on Indonesian TV with IEEE President

Gamantyo Hendrantoro, Chair, IEEE Indonesia Section



Climate Change Round-Table Discussion broadcasted in TVRI

On 27 October 2023, sixteen participants representing the academia, government, and various industrial sectors sat together with the President of IEEE, Prof. Saifur Rahman, in a round-table meeting held in the studio of national TV broadcaster TVRI in Jakarta, Indonesia. The discussion took the theme of "Enabling Leaders To Build a Sustainable Future", focusing on the climate change impact in different economic sectors and the leadership in promoting solutions toward reducing the impact. Among the participants were the Vice Chairman of the Indonesian Agency of Research and Innovation-BRIN, Prof. Amarulla Octavian, the CEO of TVRI, Mr. Iman Brotoseno, the Chair-elect of IEEE Malaysia Section, Mr. Bernard Lim, and representatives of the IEEE Indonesia Section.

The discussion was expected to be a first step into innovation, collaboration, cooperation, and communication among the involved parties. In the closing of the meeting, IEEE Indonesia Section stated its readiness to support and facilitate the collective efforts through the available networking among all stakeholders by using various resources made available by the IEEE. Collaboration with other IEEE Sections in the ASEAN countries was also in the plan. The round-table meeting was broadcasted on TVRI and streamed on TVRI youtube channel.

## Women talk about Climate Change: From Engineering and Technology to Communication and Diplomacy Approach

Agnes Irwanti, Vice Chair, IEEE Indonesia Section

In relation to the IEEE Climate Change Initiative, the IEEE Indonesia Women in Engineering (WIE) contributed by conducting a talk about Climate Change in the PT Perusahaan Listrik Negara (PLN) sponsored 2023 ENLIT ASIA Exhibition on 16 November 2023 in Jakarta Indonesia. Talk show by IEEE Indonesia WIE Group, spearheaded by Prof. Riri Fitri Sari, the Coordinator of the WIE Group and Chair of UI GreenMetric, together with speakers from the TVRI Supervisory Board, Dr. Agnes Irwanti who is also the Vice Chair of IEEE Indonesia Section, and Dr. Emilia Yustiningrum, Senior Researcher from Research Center for Politics of the National Agency for Research and Innovation (BRIN). The speakers examined climate change issues and solutions from various angles, from engineering and technology to communication and diplomacy.

Prof Riri Fitri Sari presented the UI GreenMetric and GreenCityMetric, the university and city ranking on green campus and environmental sustainability, which in terms of climate change mitigation programs contribute to 6 out of 17 SDG, particularly affordable and clean energy, and climate action. This initiative leads the community to be more creative in providing solutions to reduce carbon footprints as an effort in climate change mitigation. The second speaker, Dr Agnes Irwanti, shared the Indonesian State-owned Television Company's experience in the migration from analog to digital national television broadcasting, which contributed to the climate change action for the power consumption reduction in television transmission and energy usage efficiency. The last but not least speaker, Dr Emilia Yustiningrum described the Indonesian journey as a country regarding climate change action through diplomacy.

The discussion concludes that empowering women in climate action is a vital strategy for achieving sustainable development goals. Additionally, women's knowledge and skills in areas such as engineering, biodiversity, and policy and diplomacy practices contribute to more holistic and effective approaches to climate change mitigation.



Participants and panelists of the Women talk about Climate Change



Watch on <https://www.youtube.com/watch?v=AIGZbxFITHQ>

# IEEE R10 Robotics Competition 2023

Zia Ahmed, Vice Chair,- Professional Activities, IEEE R10

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A team of very dedicated local volunteers under the leadership of Prof. Supavadee Aramvith and Dr. Khanita Duangchaemkarn made the program run very smoothly. A robotics hands-on workshop for school children was also held on this occasion in which 50 students from six local schools participated - thanks to Assist. Prof. Ronnapee Chaichaowarat for his tremendous work in organizing the workshop.



*Welcome speech by Prof Lance Fung- R10 Director*

Three keynote speakers also gave excellent talks to stimulate enthusiasm and interest among all the participants.

IEEE R10 Director Prof Lance Fung, R10 Director-Elect Prof Takako Hashimoto, and several academics of the Chulalongkorn University and Thailand Section officers attended the event. In his opening address, Prof. Fung welcomed all the participants and guests and encouraged students to continue with their passion for science and technology to develop innovative solutions to problems faced by local communities.

Under Professor Thavida Maneewarn's leadership, the Thailand Section arranged a panel of local robotics experts as judges. All the judges did a thorough job of assessments. They visited the booth of each team quizzed them about their projects and selected the winners for this year's competition as follows:

**First Prize: Team Hawkeye, Bangladesh University of Engineering & Technology, Bangladesh**

Project: The Aerial Warrior: Fighting against mosquito menace.

**Second Prize: Team Latency Zero, Mar Athanasius College of Engineering Kothamangalam, Kerala, India**

Project: Multipurpose Autonomous Navigation Robot.

**Third Prize: Team WALL-ieee, Curtin University, Sarawak, Malaysia**

Project: A self-waste management Omnibot with pest-control mechanism in public areas.

Heartiest Congratulations to all three winners. All the participating teams presented very innovative and technically sound robotic projects to address various issues related to climate change. It was a quite challenging job for the judges to pick the top three winners. The photographs of the final rounds and videos of submitted projects are available on the competition website (<https://robocomp.ieeer10.org>).



*Participants at R10 Robotics Competition final rounds*

The IEEE Region 10 Robotics Competition aims to ignite passion among young IEEE members, retain current members, attract new members, and promote STEM education among the younger generation. The 2024 R10 Robotics Competition is now open and the final rounds will be held in August 2024 in Tokyo, Japan. The website has been updated for next year's competition. The competition is open to IEEE student members and graduate members. R10 funding will also be available for Sections and Subsections to (a) conduct local robotics activities to select up to two best teams to represent them in the competition and (b) hold hands-on robotics workshops for school children to kindle interest in STEM subjects.



*School students at the robotics workshop at R10 Robotics Competition*



*Winners of R10 Robotics Competition 2023*

Please visit <https://robocomp.ieeer10.org> to learn about next year's R10 Robotics Competition and check out if your team has what it takes to compete against other talented students from across the Asia-Pacific region.



# IEEE R10 ROBOTICS COMPETITION 2024

IEEE  
Region 10



Have you been building robots for a better world?

## CALL FOR PARTICIPATION

### Time to showcase your work on an international stage!

R10 Robotics Competition is an opportunity for all IEEE Student members (Undergraduate and Postgraduate) in the IEEE Region 10 to demonstrate their innovative robot projects designed for solving real life problems and making world a better place to an international audience in **Tokyo, Japan**.

### Who can participate?

- The IEEE R10 Robotics Competition is open to IEEE Student members and Graduate Student members belonging to educational institutes located within the geographical boundaries of the IEEE Region 10.
- Non-member students must join IEEE to participate in the competition.

### What can be submitted?

Submissions should be of innovative and useful robotics and automation technology projects for following purposes:

- Robots for healthcare and humanitarian causes
- Robot for educational/research purposes
- Robots for community services or community awareness
- Robots for tackling the climate change challenges or assisting with climate sustainability
- Robots for industrial applications
- Robots for world peace, for example, prevention of human suffering by landmines detection and defuse, surveillance and narcotics control etc.



<http://robocomp.ieeer10.org>



[R10-ROBOTICS-COM@ieee.org](mailto:R10-ROBOTICS-COM@ieee.org)



### R10 Robotics Competition will be organized in following 3 stages:



**Stage 1**  
January to April 2024

- IEEE Sections/Subsections to pick the best team(s) for IEEE R10 Robotics Competition and organize robotics activities such as technical talks for members and hands-on workshops for school children to inspire younger people to STEM.
- A limited IEEE R10 funding will be available to Sections/Subsections for Stage 1 activities.



**Stage 2**  
10 May - 30 June 2024

Teams registration and online assessments of all nominated teams.



**Stage 3**  
August 2024

Final Rounds in **Tokyo, Japan**.

# IEEE R10 Section Chapter Symposium 2023

Amit Kumar, IEEE R10 Section Chapter Committee Chair



Group Photo of participants at R10 Section Chapter Symposium

Contd. from page 1

The event was well attended by around 60 volunteers from IEEE Sections across India including Bangalore, Delhi, Pune, Hyderabad, Gujarat, Madras, Vizag Bay, Kerala, and Kolkata. The other representatives included the India Council, IEEE R10, R8, and IEEE MCE as well as the Sensors Council.

The main events of the Chapter Symposium included:

## R10 Section Chapter Symposium

Focus of the program was to train IEEE volunteer leaders to effectively run Chapters and Sections. The topics covered were Ethics, R10 and R8 Section and Chapter Committee Updates, Section Chapter Formation and Reporting Policies, Building Synergy among Society Chapters and Sections, and Section Chapter Management (Best practices, Finances, etc). It also covered information on how to bid and manage society-sponsored conferences along with case studies. A group exercise was done on running an IEEE Section with brainstorming on topics such as effective budgeting and reviewing, grooming effective volunteers from industry and academia, planning and conducting events, new OU formation and sustainability under Sections, and ensuring compliance and reporting. The speakers were from IEEE R10, MGA and MCE.

## R10 Conference Leadership Program

The focus of this program was to train the conference organizers and volunteers to effectively run IEEE conferences. The topics covered were why conferences matter, why run an IEEE conference, R10 conference review, conference sponsorship overview and application, Section leadership role, MGA sponsorship approval process and TCS fees, conference teams, peer review process, scope-conference/paper, evaluating papers, handling non-presented papers, publication overview, tools, and MCE resources. Additionally, a workshop on ethics was organized in the chapter symposium by IEEE R10.

## IEEE Region 10 Sensors Council meeting and IEEE's Greentech Innovation Hub Programme

The sensor council meeting of all council representatives was organized with the council President and President-elect. This was followed by a distinguished lecture on High Sensitivity Biosensing in Liquids with Resonant Mode Cantilevers and a demo of sensor kits.



Panel discussion at the Chapter Symposium

The Greentech innovation challenge had team exercises that included zero waste, sustainable food sources, renewable energy, smart and green buildings, sustainable materials, electronic vehicles, and sensor-based solutions. Three teams were awarded the prizes as the winners



Conference Quality Workshop at R10 Section Chapter Symposium

(b)

# IEEE R10 Young Professionals Career Leadership Aid Program (CLAP)

Akshay R S, R10 YP GEMS Intern

The IEEE Region 10 Young Professionals Career Leadership Aid Program (CLAP) has emerged as a catalyst for empowering aspiring engineers, providing a unique blend of skill development, networking, and innovation. Launched in 2021, this initiative has become a global beacon for IEEE students on the cusp of transitioning to young professional membership.



Participants at CLAP 2023

The recent physical debut of IEEE R10 YP CLAP in hybrid mode at UST, Trivandrum, Kerala on 2-3 December 2023, marked a milestone in fostering an immersive learning experience. Co-organized by IEEE Kerala Section and IEEE Kerala Section Young Professionals, in collaboration with IEEE R8 Young Professionals and powered by UST, the program showcased a commitment to nurturing the next generation of engineering leaders. CLAP was also supported by IEEE Young Professionals and IEEE R10 Ethics Awareness and Advancement Committee.

The event featured eminent speakers from diverse fields who, through the interactive workshops, panel discussions, and talks, covered different aspects of transitioning into a successful professional. Particularly noteworthy was the keynote address by chief guest Dr S Unnikrishnan Nair (Director, Vikram Sarabhai Space Centre and Indian Institute of Space Science and Technology), whose insights on the present and upcoming space programs enthralled and intrigued the audience.

Another highlight of the 2-day event was the Ethics Competition, in which participants used their knowledge and application of the IEEE Code of Ethics in analyzing and inferring results from a study of a fictitious case of ethical turmoil. The final presentation and defense of their case analysis by teams, each comprising a maximum of four members, added fervor to the event, instilling in the audience a sense of duty to adhere to the ethical guidelines laid down by the world's largest technical professional organization dedicated to advancing technology for the benefit of humanity.

With a record participation of 154 delegates from the two Regions, 26 AG collaborators (R10 and R8), 24 speakers, 10 industry contributors, and 7 IEEE regional and global committees, CLAP '23 once again reinforced the successful legacy of the initiative in shaping the leaders of tomorrow, ensuring a brighter and more sustainable future for the engineering community.



IEEE R10 Young Professionals CLAP witnessed the launch of Scribld, the first edition of IEEE R10 YP GEMS Magazine. The official launch was done by IEEE R10 YP Chair Ms. Saaveethya Sivakumar by handing over the first edition of Scribld to Prof. Muhammed Kasim, Chair, IEEE Kerala Section and Brajesh Kaimal, Co-founder & Director, Experion Technologies Pvt. Ltd. Copies of Scribld were handed to IEEE Kerala YP Representative Mr. Karthik Menon, UST Representative and the delegates by the IEEE R10 YP Team. The magazine based on the theme Frontiers of Space Exploration received good feedback from the readers community. With around 21 articles covering the science and the stories behind missions to explore beyond the horizons, the release of the first edition of Scribld laid the foundation for a future of advancing technological explorations through IEEE.

Link to download: <https://yp.ieeer10.org/scribld-magazine-ieee-r10-yp/>



Launch of Scribld at CLAP 2023

# Conference Quality Management Workshops

## Conference Quality Management Workshop - IEEE Gujarat Section

Ashish Phophalia, Secretary, IEEE Gujarat Section

IEEE Gujarat Section organized the conference quality management workshop which is funded by IEEE R10 along with the 11th IEEE Region 10 Humanitarian Technology Conference (HTC) 2023 as a half-day workshop on 17 October 2023 at Marwadi University, Rajkot.

The opening remarks were delivered by two eminent speakers; Prof. Lance Fung, Director IEEE R10, and Prof. K V S Hari, Indian Institute of Science, Bangalore. In the opening remark, Prof. Lance shared his experiences of hosting quality events and the motivation for such workshops across R10. Prof. K V S Hari shared his experience of the bidding process of IEEE ICASSP 2025 which is going to be hosted for the first time in India. The workshop was graced by the speakers namely Prof. Sameer S. M., Chair, IEEE R10 Conference Quality Management (CQM) Committee, Prof. Micheal Ong, Secretary, IEEE R10, Prof. Rajendra B. Jadeja, General Co-Chair, IEEE R10 HTC 2023

Prof. Sameer spoke on the IEEE Conference Quality Guidelines and Conference Proceedings Review process. He discussed the key points of the review process. Prof. Ong delivered a talk on Guide to Conference Application and Conference Quality Guidelines where he talked about the preparation of the application process and pointers that might affect the rejection of the application during the evaluation process. Prof. Jadeja discussed his experience of hosting the IEEE R10 HTC 2023 conference and how to manage conference finances. The workshop had an open house discussion at the end where participants discussed more on IEEE Conference guidelines. The guests also discussed measures of conference quality parameters.



Participants with speakers at CQM workshop at Marwadi University, Rajkot

## Conference Quality and Management Workshop- IEEE Sri Lanka Section

Chamodi Rangika, Editor, IEEE Sri Lanka Section



Participants of CQM workshop organized by Sri Lanka Section

The IEEE Sri Lanka Section successfully conducted the Conference Quality and Management Workshop funded by IEEE R10 as a three-day event from 23-25 November 2023. The workshop was designed with the primary objective of educating potential conference organizers on IEEE guidelines for conference quality. This included a wide range of topics such as the conference application process, timelines, sponsorships, technical programs, plagiarism issues, financial planning, publication of proceedings, and post-conference processing.

The first day of the workshop took place on 23 November via the Zoom platform. Dr. Pubudu Jayasena and Ambarish S. Natu from IEEE R10 led the sessions on Conference Management Tools and the best ways to promote and run a conference, respectively. These sessions provided valuable insights into the practical aspects of conference management. On the second day of the workshop, which was held on 24 November, Ms. Pushpamala Perera and Ms. Geethani Katugampola conducted a session on guidelines for handling plagiarism and tools for checking plagiarism. This was followed by Prof. Saman Halgamuge's session on encouraging international participation and contributions to local conferences. These sessions highlighted the importance of maintaining academic integrity and fostering global collaboration.

The third day of the "Conference Quality and Management Workshop" was conducted on the 25 November at Curtin Colombo. It covered many aspects and areas related to Conference Quality and Management. Prof. Pradeep Abeygunawardhana, the Conference Committee Chair of the IEEE Sri Lanka Section, started his session with an introduction to IEEE Conferences. Prof. Buddhika Jayasekara, Chairman of the IEEE Sri Lanka Section, emphasized the role of the IEEE Sri Lanka Section and the conference application process and submission of papers to the IEEE publication program. Prof. S. Vasanthapriyan highlighted the roles and responsibilities of the standard conference committee and quality assurance guidelines for an IEEE conference. Prof. Ruwan Gopura concluded his session by highlighting IEEE conference quality guidelines and the review process.

# Congratulations to IEEE MGA Awardees 2023

## 2023 MGA Young Professionals Achievement Award

**Aishwarya Bandla**  
R10, Singapore Section

*"For excellent efforts in mentorship initiatives for young professionals and women in engineering, and programs promoting cross-sector collaboration"*

--

**Arun M**  
R10, Madras, Section, India

*"For outstanding leadership and sustained commitment to student and Young Professionals activities in the IEEE Madras Section"*

--

**Ashwini Appaji M**  
R10, Bangalore, Section, India

*"For exemplary leadership and contributions to IEEE Students and Young Professionals activities for membership growth and retention"*

--

**Albin Paul**  
R10, Kerala Section, India

*"For fostering young professional member relations, enabling collaboration, and driving innovation through virtual lab visits, humanitarian summits, and community projects"*

--

**Santhosh Sivasubramani**  
R10, Hyderabad Section, India

*"In recognition of dedication, leadership, impactful contributions to IEEE through fostering member engagement and advancing professional growth within the young professionals community"*

## 2023 MGA Leadership Award

**Lee Yoot-Khuan**  
R10 - Malaysia Section

*"For exemplary leadership and sustained contributions at Chapter, Section, Region, and global levels, significantly benefitting members, society and underserved communities"*

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## 2023 MGA Diversity & Inclusion Award

**Paulina Yenbic Chan**  
R10, Hong Kong Section

*"For exemplary leadership and achievements in promoting diversity and inclusion in IEEE and beyond"*

## 2023 MGA Innovation Award

**Aloknath De**  
R10 - Bangalore Section, India

*"For exemplary leadership and outstanding contribution in leveraging Bangalore's power industry and aligning initiatives of Section, Society Chapters and SAC, towards benefits for members in all lifecycle stages"*

## 2023 MGA Achievement Award

**Ramneek Kalra**  
R10 - Bombay Section, India

*"For extraordinary contribution to pre-university education through IEEE WIE Project Based Learning School Camp in over 10 countries"*

--

**Sanjay Kar Chowdhury**  
R10 - Kolkata Section, India

*"For exemplary contribution in the sustained growth of IEEE Kolkata Section"*

--

**R. Hariprakash**  
R10 - Madras Section, India

*"For exemplary leadership and sustained contribution to membership development in the IEEE Madras Section"*

## Updates from R10 History and Individual Member Benefits Committee

Harry McDonald, Chair, IEEE R10 History and Individual Member Benefits Committee

The R10 History working group meeting reviewed the proposal for an R10 equivalent to the R5 Stepping Stones Award. It was considered that more refinement was needed, and the scope should be narrowed down. A new name was proposed as the 'Keystone Award'. More work will be required through the end of 2023 and 2024 before this is put out to the wider IEEE R10 community.

This 'Keystone' award would also provide recognition for unique and significant contributions to engineering technology achievements. It has an advantage over the milestone in that its origin and impact can be less than 25 years old.

Some Region 10 milestones dedicated during the last quarter of 2023 were;

Perpendicular Magnetic Recording,(1977)  
Dedicated on the 9th October 2023, Sendai Section

TRON Real-time Operating System Family (1984)  
Dedicated on 14th October 2023, Tokyo Section

MTI Portable Satellite Communication Terminals (1987-1995)  
Dedicated on 6th December 2023, Taipei Section

Several R10 milestone proposals were advancing through the acceptance process in 2023 but have not yet been approved dedications. We are hopeful that the outcomes will be successful dedications in early 2024.

- Variational Reaction Theory For Finite Element Formulation (1979-1991) Taipei Section
- IEEE Special Citation Commonwealth Solar Observatory (1924) Australian Capital Territory (ACT) Section
- Large Scale Commercialization of a CDMA Cellular Communication (1996) Seoul Section

The consolidated list and summary of the R10 milestones have been uploaded onto the Region 10 History page. This list will be updated regularly as the new R10 milestones are announced.

For more information about IEEE milestones please visit.

Milestone Program Guidelines:

[http://ieemilestones.ethw.org/Milestone\\_Guidelines\\_and\\_How\\_to\\_Propose\\_a\\_Milestone](http://ieemilestones.ethw.org/Milestone_Guidelines_and_How_to_Propose_a_Milestone)

Milestone Status Report:

[http://ieemilestones.ethw.org/Milestones\\_Status\\_Report](http://ieemilestones.ethw.org/Milestones_Status_Report)

List of Dedicated Milestones:

[https://ethw.org/Milestones:List\\_of\\_Milestones](https://ethw.org/Milestones:List_of_Milestones)

## IEEE Delhi Section LMAG Inspires Students at Poornima Group Institutions

S S Januar, Secretary, IEEE Delhi Section LMAG

On 7 October 2023, members of the IEEE Delhi Section Life Member Affinity Group (LMAG) embarked on a meaningful visit to three esteemed institutions of the Poornima Group in Jaipur. Supported by IEEE Region 10, the objective was to enlighten students about the myriad benefits of joining IEEE as Student Members and the value of having a Student Branch in their institutions.

The visit included Poornima Institute of Engineering and Technology, Poornima University, and Poornima College of Engineering. The team, led by Sri R K Asthana, Chair of the IEEE R10 Life Members Committee, and Prof. Jasdeep Dhanoa, Vice Chair of IEEE Delhi Section, engaged with students, sharing their rich experiences as IEEE volunteers and Life Members. Discussions at Poornima University, led by Prof. S S Januar and Prof. Rajnish Sharma, centered around the university's past association with IEEE and its future vision.

The interactive sessions at Poornima College of Engineering, facilitated by Dr. R. K. Agarwal, Sri Ashok Golas, and Sri Preet Yadav, motivated students to become IEEE student members. The discussions covered key issues such as startups, semiconductor chip fabrication, and the importance of further studies for personal and professional growth. The LMAG team left the students inspired and encouraged to embark on their IEEE journey.

## Exploring the Depths of Hyperbaric Oxygen Therapy with IEEE Delhi Section LMAG

S S Januar, Secretary, IEEE Delhi Section LMAG

On 8 October 2023, IEEE Delhi Section Life Member Affinity Group (LMAG) and Executive Committee members embarked on an enlightening visit to the National Hyperbaric Research Center (NHRC) in Jaipur. Sponsored by IEEE Region 10, the visit delved into the cutting-edge field of Hyperbaric Oxygen Therapy (HBOT) at two NHRC units.

Led by Dr. R K Agarwal, members received a technical overview of Oxygen therapy and had the unique opportunity to experience it firsthand for 30 minutes. HBOT, with increased pressure and 100% pure medical oxygen, aids in healing carbon monoxide poisoning, non-healing wounds, and various medical conditions. The therapy's benefits extend to stress relief, memory improvement, and recovery from sports injuries.

The visit provided an immersive understanding of the chamber-based treatment, reinforcing the commitment to exploring innovative healthcare solutions. Members left with a newfound appreciation for the transformative potential of Hyperbaric Oxygen Therapy.

# IEEE Hyderabad Section

G Prasad Acharya, Chief Editor, IEEE Hyderabad Section Newsletter

## IEEE Asia Pacific Conference on Circuits And Systems (APCCAS 2023)



*Speakers and participants of APCCAS 2023*

The 19th edition of the flagship Asia-Pacific conference, IEEE Asia Pacific Conference on Circuits and Systems (APCCAS 2023), was hosted for the first time in India from 19-22 November 2023. The conference was hosted under the umbrella of the IEEE Hyderabad section as the technical partner in collaboration with IEEE Circuits and Systems Society (CASS) chapters of Hyderabad, Bangalore, Delhi, Kolkata, Mumbai, and Chennai. This four-day conference, co-hosted along with PrimeAsia 2023, happened at T-HUB Hyderabad and saw a conglomeration of leading semiconductor industries, academia, and leading researchers across the country working in the field of VLSI circuits and systems. A pre-event on CASS workshop was conducted on 18 November 2023 at T-HUB which witnessed 120+ participants from several local engineering colleges. There were 600+ participants with 87 technical papers and 32 posters presented during the conference. The conference program started with a tutorial day on 19 November 2023 with six tutorials from academia and two tutorials from industry. The inaugural day witnessed around 300+ delegates including the CASS worldwide leadership team like Dr. Amara Amara (CASS Past President), Dr. Yoshifumi Nishio (CASS VP – Financial Activities), Dr. Fakhru (CASS VP – Education and Communications), Dr. Yongfu Li (R10 BOG member at large) who inaugurated the exhibition and 75th-year logo for CASS worldwide during the conference. CASS Blitz initiative pilot project was held on 21 November 2023 with 158 students taking online exams in analog and digital design.

Key features of the conference included an industry innovation track, technical research papers, a start-up forum, an exhibition and product showcase, an innovation forum, panel discussions, tutorials, young professional forum, women in CASS Forum, and design contests. Leading semiconductor industries like AMS OSRAM, Microchip, AMD, Mediatek, Silicon Labs, Micron, Waferspace, and R&D Universities like Maker Village Kerala, and Anurag University have pledged their support. Government organizations like DRDO and DSCI along with several IEEE societies comprising of Young Professionals, Women-in-CAS, Design contest and CASS Education initiatives forum, IEEE standards committee offered support and participation during the conference.

## Symposium of Research Scholar (SYRES- 2023)

IEEE MTT-S/AP-S/EMC-S Joint Chapter Hyderabad Section in association with Joint Chapter of AP-S/MTT-S/EMC-S Pune Section organized Symposium of Research Scholar (SYRES-2023) on 28 October, 2023 at Matrusri Engineering College Hyderabad. The symposium was inaugurated by chief guest Dr. DR Jahagirdar Outstanding scientist RCI Hyderabad and delivered a keynote talk. Dr. Jahagirdar presented and explained the design techniques for mono-pulse antenna arrays. During the symposium, research work by PhD Scholars and MTech students from various prestigious colleges across the country was presented in 4 sessions. The presentations by these students were evaluated by an eminent panel of experts. Shri M. Balachary, Retd Scientist from DLRL Hyderabad delivered an expert talk on "Modelling and Simulation- The Best Practice in Antenna Design". The second keynote talk was delivered by Dr. KP Ray, HOD ECE Department and Director, School of Radar Technology, DIAT Pune on 5G and 6G microwave research work. The symposium was concluded by announcing winners of PhD and MTech students. Dr. Prashant Kumar Mishra, Chair MTT-S/AP-S/EMC-S Hyderabad section thanked all the volunteers for meticulous planning and organization of symposium.



*Highlights of the SYRES 2023*

## IEEE WIE Congress - Hyderabad Section 2023

The Women in Engineering Congress by IEEE Hyderabad Section, in collaboration with academic partners, centered on STEM, Sustainability, and Social Impact was held on 22 September 2023. Chief Guest Ms. Mangala Mani, Retd. ISRO Scientist, delivered an inspiring keynote, earning a standing ovation. Dr. Monica Nagpal led a workshop, and lightning talks covered emerging topics. A lively panel discussion emphasized STEM's significance, sparking engaging dialogues among participants. The organizers of the IEEE Hyderabad Section thanks speakers, and chief guest Mangala Mani, and guest of honour Amit Kumar, MD of Bioaxis DNA Research Centre, for contributing to this enriching event, broadening our perspectives, and motivating success in our respective fields.

## 2023 Global Energy Interconnection Conference

Debiao Lu, Executive Committee Member, IEEE China Council

Representatives of nearly 300 organizations from more than 40 countries attended the 2023 Global Energy Interconnection Conference from 25-27 September 2023 in Beijing, China to address important topics such as clean development, power interconnection, technological innovation, and policy coordination. Prof. Yinghong Wen, chair of the IEEE China Council addressed the opening ceremony of the conference. IEEE China Council dedicated to promoting new technologies for sustainable energy, co-sponsored the event



Prof. Yinghong Wen, chair of the IEEE China Council at Global Energy Interconnection Conference

## IEEE Women in Engineering China Leadership Summit (IEEE WIE CLS 2023)

Debiao Lu, Executive Committee Member, IEEE China Council

On 21 October, 2023, the 5th IEEE Women in Engineering China Leadership Summit (WIE CLS) was held in Shanghai, outstanding women gathered together to discuss the improvement of female leadership and future development. The summit had 7 keynote speeches and 6 roundtable discussions, with more than 300 on-site guests and participants including engineers, researchers, innovators and industry leaders. Chair of IEEE WIE Prof. Celia Shahnaz, Chair of IEEE Power and Energy Society Prof. Jessica Bian, Chairman of IEEE China Council Prof. Wen Yinghong, and Senior Business Director of IEEE Asia-Pacific Region Mr. Hua Ning, addressed the forum respectively. The summit promoted and encouraged female engineers and scientists in China to pursue careers in scientific research and engineering.



Participants of IEEE WIE CLS 2023

## Empowering Women in Engineering: Shakti Unleashed at HTC 2023

Foram Rajdev, Chair, IEEE WIE Gujarat Section

Shakti, a vibrant celebration of women in engineering, illuminated the Humanitarian Technology Conference (HTC) 2023 on October 16th at Marwadi University Rajkot. Prof. Foram Rajdev, Chair of IEEE WIE Gujarat Section, initiated the event with a warm welcome. Esteemed speakers, including Emi Yano, Chair, IEEE R10 Humanitarian Technology Activities Committee, Dr. Preeti Bajaj, IEEE R10 Vice Chair of Membership Activity, Dr. Prerna Gaur, Elect Chair of IEEE India Council and Dr. Rajashree Jain, Vice Chair of Membership Development IEEE India council, graced the occasion, inspiring attendees with their wisdom.



Highlights of Shakti at HTC 2023



Participants of the Shakti program

Ms. Emi Yano's keynote on "Empowering Women for a Sustainable Future" resonated deeply, emphasizing Diversity, Equity, and Inclusion. She shared insights on overcoming gender gaps, citing the global gender gap index. The event buzzed with excitement during the "Fastest Finger First" game, adding a fun and interactive element. Participants showcasing IEEE WIE knowledge were rewarded with exclusive WIE goodies.

A thought-provoking Panel Discussion, "Empowering Women in Engineering: Breaking Barriers, Creating Impact," facilitated engaging exchanges between participants and speakers. Shakti at HTC 2023 proved to be a catalyst for inspiration, mentorship, and fostering connections in the dynamic world of women in engineering.



## AKPESSC'23: A Triumph of Innovation, Learning and Connectivity!

Joyal J Maliakal, Global Publicity Outreach Coordinator, IEEE PES Kerala Chapter

In a dazzling showcase of technological and collaborative brilliance, IEEE PES Kerala Chapter proudly presented the All Kerala Power and Energy Society Student Conclave 2023 (AKPESSC'23) on 27-29 October 2023. The event was hosted at RIT Kottayam as a three-day extravaganza that celebrated the achievements of the past. Kicking off with riveting workshops at remarkable industries, AKPESSC'23 sparked curiosity and innovation through cutting-edge power systems simulations and hands-on experiences with the latest energy-efficient technologies. Beyond realms of academia, the event emphasized the importance of fostering connections among like-minded individuals. Networking sessions, panel discussions, and interactive forums created a vibrant platform for 120 participants and professionals to exchange ideas, and experiences, and forge meaningful collaborations.

## 2023 IEEE Seoul Section Student Paper Contest

Gilsoo Jang, Chair, IEEE Seoul Section



*Presentation sessions of paper contest*

IEEE Seoul Section Student Paper Contest (SPC), held at Korea University, showcased 49 outstanding papers from 15 universities. Since its inception in the 1990s, SPC-Seoul has evolved into a premier IEEE event, shaping future industry and academic leaders. All presentations, covering diverse topics from communications to computing, were meticulously reviewed by the program committee. The top-performing students will be honored with grand, gold, silver, and bronzed prizes, with the grand prize winner advancing to the prestigious 2024 IEEE Region 10 Student Paper Contest. Congratulations to all participants on their remarkable contributions!

## Lighting the Way to Education and Health in a Remote Village School

Utkal Mehta, Secretary, IEEE Fiji Subsection

The "Lighting the Way to Education and Health in a Remote Village School" initiative uplifts a rural Fijian school by introducing a standalone PV solar system and enhancing water and sanitation facilities.



*Speakers of the workshop*

In collaboration with IEEE Humanitarian Technologies Board and the University of the South Pacific, Fiji, the project implemented an eco-friendly solar setup, reducing reliance on diesel generators and operational costs. As speakers graduate member Mr. Arshaque Ali and senior IEEE member Utkal Mehta ensured the solar system's safety and efficiency, aligning with Sustainable Energy Industry Development Project (SEI-API) guidelines and Australian/New Zealand Standards (AS/NZS). This humanitarian effort, supported by IEEE R10, directly benefits remote isolated village schools, enabling effective classes. The upcoming phase involves installing water filters, and further improving sanitation. This project showcases how sustainable energy and clean water positively transform rural communities, demonstrating the potential to enhance lives in remote areas.

## Tech talk on AI Driven Innovations for sustainable Energy in Australia

Lakshitha Gunasekara, Chair, IEEE Student Branch of La Trobe University

La Trobe University's IEEE Student Branch and its affiliated society chapters celebrated IEEE Day on 3 October 2023, to honor IEEE Day and provide insights, especially for new IEEE members. Prof. Daswin De Silva, the student branch advisor, introduced IEEE and its chapters, emphasizing the opportunities within the professional community. Lakshitha Gunasekara, the student branch chairman, shared his volunteer experience with IEEE and stressed the importance of active involvement in the organization.

A key component of the event was a technical session titled "AI-Driven Innovations for Sustainable Energy in Australia." Mr. Pamitha Gunaratna, an Electrical Engineer from Bureau Veritas, and Mr. Nishan Mills, an AI Technical Architect at the Center for Data Analytics and Cognition at La Trobe University, provided in-depth insights into Australian energy infrastructure and the application of AI to address its limitations. Attendees gained valuable knowledge about current research and potential future developments in the field.

## IEEE-HKN Chapter Installation Ceremony

Soma Prathibha, Faculty Advisor, IEEE Student Branch, Sri Sairam Engineering



*Inaugural ceremony of 4th IEEE HKN Chapter in India*

On 29 September 2023, the Sigma Auditorium at Sri Sairam Engineering College, Chennai, India, witnessed a historic event hosted by its IEEE Student Branch. With 1000 participants in attendance, the IEEE-Eta Kappa Nu (IEEE-HKN) Founding Members Induction Ceremony marked a momentous day for Sairam Institutions, becoming the 4th IEEE HKN Chapter in India.

Dr. K Porkumaran, Chairman of IEEE Madras Section and Principal of Sri Sairam Engineering College, delved into the rich history of IEEE HKN, underscoring its significance for Sairam Institutions. Dr. Sai Prakash Leo Muthu, Chairman and CEO of Sairam Institutions, welcomed the distinguished guests, including Chief Guest Mr. Sampathkumar Veeraraghavan, Global President of 2023 IEEE HKN and 2023 IEEE Humanitarian Technology Board Partnership Chair (USA). Mr. Veeraraghavan's captivating keynote address highlighted the pivotal role of IEEE HKN in shaping the future of technology and fostering global innovation.

The ceremony's highlight was the induction of IEEE HKN Founding Members, with 2 professional members and 11 student members joining the esteemed ranks. The induction marked the beginning of a journey towards excellence in engineering and technology for the newly initiated members. This ceremony stands as a testament to the commitment of Sairam Institutions to nurturing talent and fostering a culture of innovation within the engineering community.

## TechNexus: Celebrating IEEE Day with Tech Challenges

Tooba Khan, Advisor-IEEE SHU Student Branch

TechNexus, an event organized by the IEEE Salim Habib University (SHU) Student Branch at Salim Habib University on 28 October 2023, seamlessly blended engineering and information technology. It served as a platform for talented students from SHU to explore uncharted territories at the crossroads of scientific knowledge and practical skills.

This spectacular event showcased three prominent competitions. "Circuit Clash" challenged participants in a rigorous circuit-building contest, testing their engineering and problem-solving skills. "Code Warrior" saw a competitive coding showdown, where students demonstrated their programming prowess. Additionally, the "Bio-Sculpt Showcase" featured an exhibition of impressive 3D bio-models, highlighting the fusion of biology and technology.

Distinguished judges, including Dr. Samita Bai, Co-chair of the WIE Karachi Section, added prestige to the event. Notable figures such as Vice Chancellor Professor Dr. Shakeel Ahmed Khan and Dean Faculty of Engineering Dr. Zeeshan ul Haque emphasized the event's significance. TechNexus celebrated the passionate talent of Salim Habib University's students across diverse fields of science and technology, fostering innovation and interdisciplinary collaboration.

## IEEE R10 Newsletter Call for Articles

<https://newsletter.ieeer10.org/submission/>



### CONTACT US

For any query, feel free to email the R10 Newsletter team at [r10-ecn@ieee.org](mailto:r10-ecn@ieee.org).

# IEEE Malaysia Kuala Lumpur Subsection

Haslina Md Sarkan, Communications/Publicity/Website Coordinator

## IEEE Malaysia Kuala Lumpur Subsection in HTC 2023

The IEEE R10 Humanitarian Technology Conference (HTC) 2023, held at Marwadi University in Rajkot, Gujarat, 16-18 October 2023, was a significant event facilitated by IEEE Gujarat Section. Representatives from IEEE Malaysia Kuala Lumpur Subsection (IEEEMYKL), gained a lot of insights during the conference that were pivotal, especially as Kuala Lumpur Subsection prepares to host HTC 2024.

The invaluable insights gained at HTC 2023 were shared in a session titled "How Tech Transforms Lives: A Congress Recap and Knowledge Exchange" which took place at He & She Coffee, Universiti Teknologi Malaysia Kuala Lumpur (UTMKL) Campus, 6 November 2023. Hosted by IEEEMYKL in collaboration with UCSI University's School of Architecture and Built Environment, this session attracted 27 participants, including IEEE members, students, academics, and industry professionals. The session served as a platform for knowledge exchange and collaborative endeavors, enhancing the global discourse on humanitarian technology.



Experience sharing of HTC 2023 for IEEEMYKL

## Some highlights of IEEE Malaysia Kuala Lumpur Subsection Activities



Participants at STEM activities of IEEEMYKL

IEEEMYKL with UTMKL Student Branch, organised an introductory course on Arduino programming and fundamental electronics for SK Wangsa Maju Zon 10 students on 6 November and 4 December 2023. This activity, funded by IEEE Malaysia, UTMKL Student Branch, and IEEEMYKL, aimed to prepare students with essential skills for their transition to high school. 7 IEEE members and 30 students were involved in these highly interactive sessions.

A student representative of IEEEMYKL and the chair of the UTMKL Student Branch were invited by SK Padang Tembak 2 to coach 2 primary school students for a robot competition. They shared their knowledge and experiences in improving the performance of line-following robots. Their scientific approach resulted in a 75% reduction in the time taken compared to the previous program.

## A Ringside View from LMAG Kerala

V K Damodaran, Chair, IEEE LMAG Kerala Section

### Women Empowerment, Income Generation for Educated Unemployed Women, and Green Energy Promotion

IEEE Kerala Life Members Affinity Group (LMAG) initiated an innovative three-in-one project that brings green energy to rural areas by training unemployed women to assemble LED bulbs. After intensive one-day training, groups of five women establish production units, promoting high-quality, eco-friendly products. R10 Life Member Committee funded for training two groups, joined by the IEEE Kerala Special Interest Group on Humanitarian Technology Group and Kerala Section. The initiative not only generates income for families but also nurtures nano-enterprises. Collaborating with the Green Energy Forum and Sree Narayana College, the project fosters community engagement. The workshop covered diverse topics, empowering women to lead sustainable ventures. Elected group leaders and a dedicated WhatsApp group ensure ongoing support from IEEE, exemplifying the transformative impact of community-driven initiatives.

### Empowering University Students: Green Auditing, Carbon Footprint Computation, and Remediation Brainstorming

IEEE Kerala LMAG's initiative, the Green Audit of College Campuses, trains university students in Kerala to champion sustainable practices. In collaboration with Nature's Green Guardians Foundation (NGGFN), the program covers seven key audits, including energy efficiency, biodiversity, water, waste, transportation, health, and gender equity. Despite an initial plan for 40 participants, the overwhelming response led to the selection of 100 students from diverse institutes. Yuvakshetra Institute of Management Studies generously provided its green campus for training. The initiative garnered support from NGGFN and Green Energy Forum, enhancing expertise and resource collaboration. The program's success, reflected in the low Per Capita Carbon Footprint of the Yuvakshetra Institute of Management Studies campus, paves the way for a broader movement toward carbon neutrality. LMAG Kerala continues its impactful journey, offering education for wiremen and engaging with local governments on carbon neutrality priorities, fostering a sustainable future.