IEEE REGION 10 NEWSLETTER

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IEEE REGION 10 CONNECT

IEEE **10** REGION NEWSLETTER

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WELCOME MESSAGES
Message from IEEE Region 10 Director

Dear IEEE Colleagues,

We are coming closer to the end of 2021; a year that will be remembered for a long time as a period mankind has learned to live and work in a virtual world. Thanks to new technologies and unequivocal passion, our volunteers all across Region 10 have exhibited great dedication and commitment for IEEE despite all the challenges and uncertainties. Our committees came out with many innovative programs for member engagement which surely have enriched the value of being members of this great organization.

We continue to be the largest, fastest-growing, and most diverse region in IEEE. There are 60 sections and 42 subsections in Region 10 and many of our subsections have the potential to grow as full sections in coming years. I am glad to share that the membership of Region 10 is up by 12%, which is the highest rate among all regions. FUTURE50 initiative continues to provide discounts to students. This initiative has benefited Region 10 immensely, especially India, and accounted for 65% of total program usage. As it is annual renewal time, I request all members to renew their membership by availing of discount options offered by IEEE MGA and technical societies.

We have successfully organized the Region 10 flagship conference, TENSYMP 2021 in August with the theme 'Good Technologies for Creating Future' in hybrid mode. I presented an overview of Region 10 from my own place like many others who participated online whereas a good number of delegates attended the conference physically at Jeju Island, South Korea. I congratulate the IEEE Seoul section for successfully organizing another major conference of Region 10 after TENCON 2018.

Similarly, Region 10 Humanitarian Technology Conference 2021, with the theme 'Reverse Innovation for Humanitarian Technology Solutions using STEM Science, Technology, Engineering, and Management was also held in hybrid mode recently at Bangalore. I personally attended the grand inauguration of the conference in Bangalore. It was my first travel after 18 months. We are now slowly shifting from fully virtual events to hybrid mode. Many of our sections have started in-person and hybrid events following all protocols and adhering to local safety guidelines. It is a good sign, and I wish we return to full normalcy soon. But, the pandemic has not yet been over. Hence, let us be very careful, take all precautions and follow the necessary safety protocols on Covid-19 and adhere to the guidelines issued by local authorities.

Meanwhile, Region 10 announced several award winners in various categories. Many congratulations to all winners. I also congratulate those who participated in award programs and appreciate the spirit of participation. Most members and volunteers were having great credentials and the competition was very tough. We also introduced several special recognition awards to accommodate and motivate more volunteers and members. I encourage our members to keep participating and I am sure you would be recognized.

We executed many of our planned activities with great success. 'Sparklers Summit', 'Career Leadership Aid Program (CLAP)', 'Student-YP Joint Activities', 'Rejuvenation of dormant YP affinity groups', 'YP REVOL 2021', 'Skill Upgradation program - UpSkill 2021' all were well attended by our members. I am sure of great value enhancement by these programs. The Region 10 team has shown that how opportunities could be created during the challenges. I am proud of each and every volunteer of Region 10 for their outstanding contributions.

We continue educating our volunteers on 'conferences', which is going to be our regular feature for 2021-2022. Region 10 is also supporting sections to organize POCO, that is our way to empower sections to spread awareness on conferences and conference quality.

Region 10 collaborated with IEEE HAC for projects focussed on 'Addressing Local Needs During COVID19'. 26 selected project proposals, with innovative ideas on various Covid19 related topics, were awarded for funding support. I am happy to share that all 26 projects are progressing well with great satisfaction. This time, we have associated one mentor to each project to guide projects. We have a plan to convert selected projects into products. This is going to be very encouraging for participants.

Region 10 Industry Relations Committee launched 'Industry-Academia Dialogue Forum' to enhance Industry-Academia engagement and select sections have been provided with funding support. It's a great initiative and I am sure our members in academia shall have good exposure from the industry. We are brainstorming on various ways of engaging industries in our events.

Region 10 initiative 'Reaching Locals' and collaborative program '10Talk' continue to create values. The life members committee is very active and expanding the LMAG network. Currently, we have LMAG in 20 sections, and is still growing. Region 10 Student Activities Committee organized 'R10 Student Membership Development Summit 2021' to spread awareness on special tools available for students. The Strategic Planning and New Initiatives Committee is pursuing the possibility of launching the 4th "Virtual" R10 flagship conference in addition to TENCON, TENSYMP, and R10-HTC. The committee has completed a survey to study the challenges and opportunities of holding this new conference.

Region 10 Professional Activities Committee is planning to organize a series of HardTech/SmartTech workshops in November. The committee has invited proposals for Entrepreneurship Initiatives and 13 proposals are under scrutiny now, the results of which will be announced soon. The Information Management Committee has started implementing an event funding portal for R10 committees so that members will be able to submit funding proposals without any hassles. Our YouTube channel is also active with new content uploaded regularly.

The Information Management committee has finished doing social media management to better engage members and increase subscribers for the new R10 YouTube channel by having regular pre-recorded interview sessions to share about R10 programs and to address concerns questions raised by the R10 section volunteer leaders. Please visit.

Our volunteers celebrated IEEE Day all over Region 10 in their own traditional and innovative ways. Many of our sections recognized their volunteers for their contributions and some sections organized online events inviting leaders to deliver a technical and motivational talk. Please share photographs of your celebration in the newsletter.

There are many lessons learned and many to learn from the pandemic. I am sure that we learned how to respond to challenging situations and how we could be truly global, and collaborate all across the world. We have explored and used technology to connect with the leaders and technologists across the world and most of our events had international participation, and we plan to continue to do so in the coming years.

I am grateful to each member and every volunteer of Region 10 for their great contributions and outstanding performance. I wish you all a very bright future. Thank you.

Best regards,

Deepak Mathur
IEEE Region Director
WELCOME MESSAGES

Message from IEEE Region 10 Newsletter Chair

Dear Region 10 Members,

It is my pleasure to welcome you to the fourth and final edition of the IEEE Region 10 newsletter for the year. As you can see from the cover page, we now have a new logo for IEEE Region 10 Connect, which has been selected from close to 100 designs submitted to our recent logo design contest. Big congratulations to the contest winner, Sahil Sawant from IEEE Bombay Section for designing the beautiful logo. Again we really appreciate the strong support from our members for our two contests this year.

There are also a few additional changes to the newsletter. We continue to feature our outstanding volunteers and organizational units in our Personalities and Organizational Units of the Month columns, but going forward the columns will be renamed as Know Your R10 Volunteers and Know Your R10 OUs respectively. We have four more volunteers and six more organizational units featured in this edition for your reading pleasure. Besides the regular WIE, YP, Student, and Life Member volunteers, we are now introducing another category for Entrepreneurs, and we are honored to have R10 volunteers Eddie Čustović feature in our first Entrepreneur column. We hope that this new column can contribute to producing more budding entrepreneurs from our region. This edition also features short biographies of the recently announced R10 award winners, as well as various updates from across the region. To all our readers, be it from Region 10 or otherwise, I hope you enjoy this final newsletter edition of the year.

As usual, you can reach us at r10-ecn@ieee.org if you have any comments or suggestions to share with us regarding the newsletter. Do drop us a line as well if you are interested to be part of the team, as we continue to expand and diversify our committee. Finally, my greatest appreciation to the newsletter team for their hard work in producing another excellent newsletter.

Thank you and kind regards,

Mohammad Faizal Ahmad Fauzi
Chair, IEEE R10 Newsletter Committee

Committee Member	Portfolio
Mohammad Faizal Ahmad Fauzi	Chair/Chief Editor
Prashant R. Nair	Editor
Redwan Ferdous	Editor
Tridibesh Nag	Editor
Lau Bee Theng	Editor
W. M. W. Sharika Jayalath	Associate Editor
Garima Patel	Associate Editor
M. Naila Mukhtar	Webmaster / Social Media
Nabeel Ahmed Masoodi	Graphic Designer / Social Media

1. REGION 10 UPDATES

R10 Education Activities Committee

Muhfizaturrahmah, Reaching Local Ambassador for IEEE R10 Educational Activities

IEEE Region 10 Education Activities (EA) Chair, Dr. Preeti Bajaj and representatives of Indonesian Section Society Chapter Chairs were discussing potential activities that could be funded by IEEE R10 on Saturday, 19th June 2021. The brief meeting began with a short presentation by Dr. Preeti Bajaj, explaining the current EA structure, EA 2020 strategy, and EA scope of works.

The participants got a glance at IEEE EA's exemplary features such as TryEngineering.org which is designed to educate teachers, school counselors, parents, and students about the different engineering disciplines and the impact engineers have on society. Furthermore, Dr. Bajaj also introduced Engineering Projects in Community Service (EPICS) which gives students a platform to work with engineering professionals to develop solutions that transform communities across the globe. She also explained accreditation overseen by IEEE as well as IEEE Learning Network, IEEE Learning Library, IEEE Certificates Program, and IEEE English. Lastly, Dr. Bajaj encouraged Indonesia Section to submit proposals on five open calls for proposals:

1. New Innovation Challenge Under Educational Activity
2. Capacity Building Workshop under Educational Activity
3. Reaching Local Initiatives
4. Social Media Challenge under Educational Activities
5. Workshop on TryEngineering and STEM

IEEE Indonesia Computer Chapter Chair, Dr. Ford Lumban Gaol, and IEEE Indonesia Education Society Chapter Chair, Dr. Iwan Kustiawan, were enthusiastic, asking numerous questions following Dr. Bajaj's presentation. The meeting was hosted by IEEE R10 Reaching Locals Ambassador from Indonesia, Muhfizaturrahmah (Ovy), and concluded with a commitment on submitting proposals to EA R10.
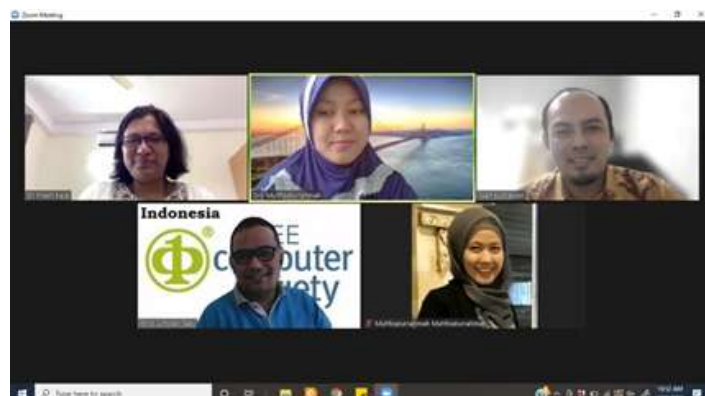
R10 Humanitarian Technology Activities Committee

Saurabh Soni, IEEE R10 HTA Committee, and Jing Dong, IEEE R10 HTA Chair

IEEE REGION-10 AND HAC PROJECTS

IEEE Region 10 and IEEE HAC have teamed up to hold a special Call for Proposals in Region 10 to support initiatives that use innovative technology to address the COVID-19 problem while putting safety first. Awards of up to USD500 were given to the selected projects that came up with an impressive strategy addressing the real needs of a local community or local stakeholder organization. With 70 proposals that came from 17 Sections & 7 countries, 56 projects were successfully submitted, out of which 27 convincing and innovative projects were awarded the grant. The list of the awarded projects is displayed on the R10 website.

IEEE REGION-10 HTA HIGHLIGHT VIDEO CONTEST

The IEEE R10 HTA Highlight Video contest was an opportunity for all IEEE R10 members, particularly SIGHT members, to practice and improve project design and visual presentation skills in a precise way suitable for a wider audience, as well as to display the high quality of their designed projects at the regional level. This year, the contest was conducted under the theme "Regional Representative Humanitarian Projects Showcase". The contest was announced on the 9th April 2021 and a total of 12 videos were received. The first three winners were presented with e-certificates and the videos were shared on the R10 HTA website.

Malhar Deshkar
Video Title : Advanced Touchless Sanitizer Dispenser
Bombay Section
Watch Here

Abba Mathews
Video Title : Smart Classroom Among The Woods
Kerala Section
Watch Here

Mohd Fitri Mohd Yakub
Video Title : Portable Intelligent Covid-19 Prevention Screener
Kuala Lumpur Section
Watch Here

- 1st prize: "Smart Classroom Among the Woods" presented by Abba Mathews, Alen Salu, and Navaneeth V Nair from Kerala Section
- 2nd prize: "Advanced Touchless Sanitizer Dispenser" by Malhar Deshkar, Monika Bhole, Nagesh Udasi, from Bombay Section
- 3rd prize: "Portable Intelligent COVID-19 Prevention Screener" done by Mohd Fitri Mohd Yakub, Mohd Zamzuri Ab Rashid, Muhamad Sharifuddin Abd Rahim from Malaysia, Kuala Lumpur Subsection.

R10 HTA ORIENTED PROJECT ENABLER (TENHOPE2021)

TENHOPE2021 is a humanitarian project support fund in R10 that aims to encourage and equip IEEE R10 volunteers to carry out and support meaningful humanitarian technology and sustainable development initiatives at the local level. It also allows IEEE members and R10 participants to collaborate with NGOs and other organizations in order to advance technology in support of the United Nations' Sustainable Development Goals (SDGs) in Region 10. A generous grant of USD2000 will be funded to the selected project that incorporates sustainable development and addressing the areas of food security, infection control devices, sustainable power sources, water, sanitation and hygiene, medical devices, personal protective equipment (PPE), information and communications technology (ICT) and engineering and technological supports in response to the global pandemic COVID-19. 39 proposals from across 9 different countries in Region 10 were received, unfortunately, no proposals were selected for the award this year.

ECOSYSTEM RESTORATION WITH IEEE HAC

On 5th June 2021, World Environment Day is celebrated happily across the globe. This year, IEEE Region 10 Humanitarian Technology Activities Committee with support from IEEE Region 10 Women in Engineering Committee conducted an interesting grand event on the topic "Ecosystem Restoration with IEEE HAC". The event created an opportunity to become aware of the issues faced by Doctors in the face of this pandemic and the impact it has on the environment. The welcome keynote and overview of R10 IEEE HTA were presented by Mr. Deepak Mathur, IEEE Region 10 Director, and Saurabh Soni, Member of Region 10 HTA. The overview of HAC proposals was then presented by Pia Torres, Project Support & Oversight Ad-Hoc Committee Chair. The session on WIE support for Humanitarian Activity was presented by Emi Yano, Chair of IEEE Region 10 WIE Committee. Dr. Divya Kumar, MBBS, DNB Fellowship in Art delivered a keynote talk on "Societal issues in Healthcare Industry". An "Overview about RSPO & Environmental Issues" was presented by Preethi Jain, Outreach and Engagement Asia Pacific at RSPO. The event was moderated by Pooja Sharma, Pooja Dhende, Monica Bhorle & Maharsh Patel. Ramneek Kalra, IEEE impact creator delivered the vote of thanks.

Event Recording: https://bit.ly/3zp1g5r

HUMANITARIAN OUTREACH CAMP 1.0

IEEE Region 10 HTA Committee in association with IEEE Indian Council organized the "Humanitarian Outreach Camp 1.0" on 10th June 2021. The event was organized to discuss in detail the call for proposals focused on addressing local needs during COVID-19 times by IEEE R10 and IEEE HAC. Over 450 participants from India, Bangladesh, Pakistan, Peru, Australia, Thailand, Japan, and Malaysia participated in this outreach camp.

Message from Dr. Jing Dong, Chair IEEE Region 10 HTA 2021: https://drive.google.com/file/d/1uDrrlSWxQrY-8i65ntOhU0QFDgsfwzPM/view?usp=sharing

REGION 10 UPDATES

HUMANITARIAN OUTREACH CAMP 2.0

IEEE Region 10 HTA Committee organized the "Humanitarian Outreach Camp 2.0" on 26th June 2021. The event was conducted on the topic of "How to write an effective proposal". Dr. Vijayalakshmi Biradar (Past chair of IEEE WIE Hyderabad Section and Past Recipient of IEEE Sight HAC project) from Hyderabad Section was the keynote speaker of this outreach camp. The event had over 150 participants from IEEE Region 10 that include UAE, Iran, Iraq, Pakistan Bangladesh & Sri Lanka. This event was organized in collaboration with the IEEE YESIST12 team.
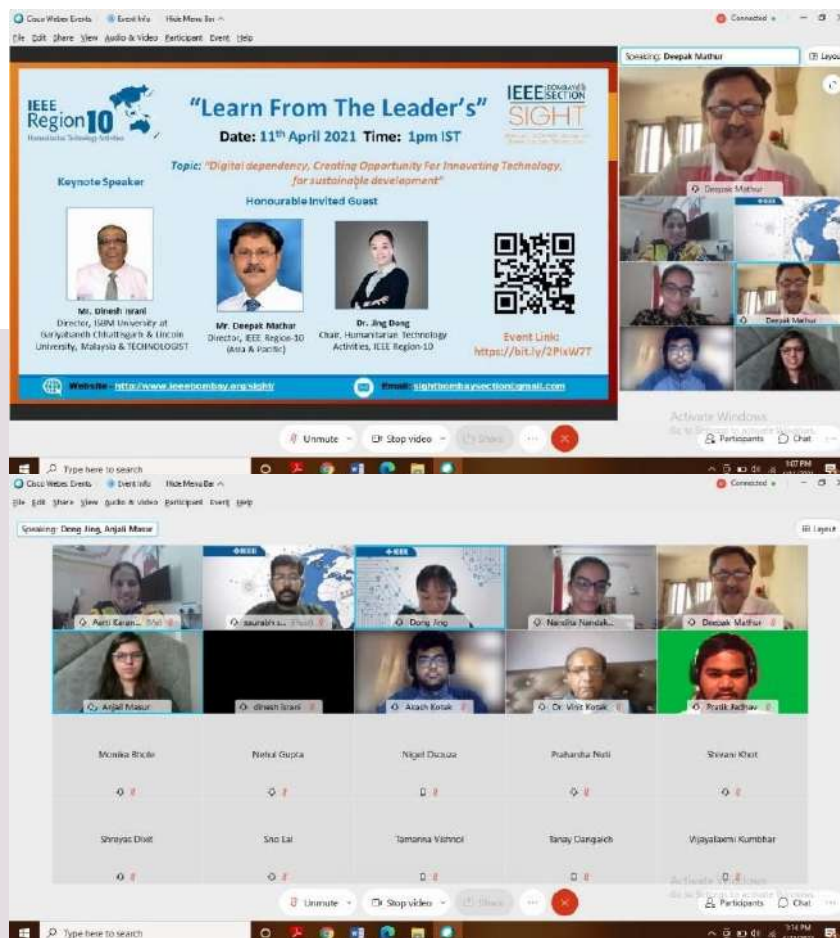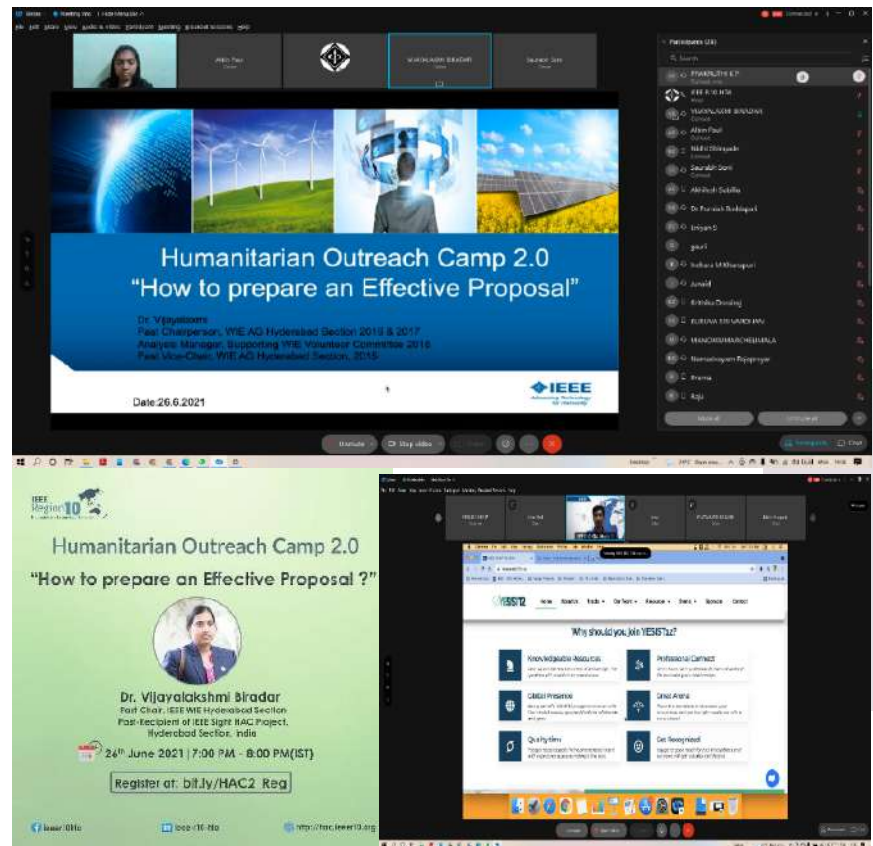
LEARN FROM THE LEADER'S

On 11th April 2021, IEEE Region 10 HTA Committee in association with IEEE SIGHT Bombay Section organized "LEARN FROM THE LEADER'S", an event that elaborated on digital dependency, creating opportunities for innovative technology and sustainable development. The honorable guests of the event were Mr. Deepak Mathur, Director of IEEE Region 10, and Dr. Jing Dong, Chair of IEEE Region 10 Humanitarian Technology Activities. Mr. Dinesh Israni, Director, ISBM University at Gariyabandh, Chhattisgarh, and Lincoln University, Malaysia was the keynote speaker of this dynamic event.

Event link: https://bit.ly/BombaySIGHT

REGION 10 UPDATES

IEEE R10 HTA Felicitated the 2021 HTA Award Recipients
Saurabh Soni, IEEE R10 HTA Committee, and Lau Bee Theng, IEEE R10 Newsletter Editor

IEEE Region 10 Humanitarian Technology Activities Committee supported various new initiatives under the leadership of Prof. Jing Dong and the guidance of Prof. Prakash Lohana (Advisor, IEEE R10 HTA) and Mr. Deepak Mathur (Director, IEEE Region 10). On 14th September 2021 (6 PM-7.30 PM IST), the IEEE Region 10 HTA Committee organized a wonderful virtual felicitation evening to congratulate the 2021 R10 HTA awards winners. The event was privileged to have Holly Schneider Brown, Director, Public Imperatives and Corporate Development, IEEE Corporate Activities, and Prof. Jing Dong to grace the opening and share some of the HTA initiatives and activities. The Region 10 HTA awards felicitation presented the appreciation to 2021 award recipients:
- IEEE Bombay Section - R10 Humanitarian Technology Activities Outstanding Section
- Lau Bee Theng - R10 HTA Outstanding Volunteer

In addition, the event also included the felicitation for the winners of 2021 R10 HTA Highlight Videos.
- Abba Mathews, Alen Salu, Navaneeth V Nair, IEEE Kerala Section (Smart Classroom Among the Woods)
- Malhar Deshkar, Monika Bhole, Nagesh Udasi, IEEE Bombay Section (Advanced Touchless Sanitizer Dispenser)
- Mohd Fitri Mohd Yakub, Mohd Zamzuri Ab Rashid, Muhamad Sharifuddin Abd Rahim, IEEE Kuala Lumpur Subsection (Portable Intelligent COVID-19 Prevention Screener)

The evening concluded with various motivational sharing and appreciation notes from the winners, which greatly enlightened the IEEE HTA volunteers. The virtual ceremony can be accessed here: https://drive.google.com/file/d/1ahL294tInw1WPLuIJe3TT6i7V3_4hi8x/view

Stay Tuned for Upcoming Events On Facebook: https://tinyurl.com/FBR10HTA
Join WhatsApp group: https://tinyurl.com/whatsappR10HTA

R10 Student Activities Committee

Initiatives of IEEE Region 10 SAC
Chamika Sudusinghe, Secretary for IEEE Region 10 SAC

IEEE Region 10 Student Activities Committee (SAC) strives to implement activities for the benefit of the student volunteers to develop their leadership skills and align their activities with the goals and objectives of IEEE Region 10.

IEEE Region 10 SAC successfully organized three informative events during the past months, namely:
- IEEE R10 SB Chairs and Advisers Summit 2021
- IEEE R10 SAC Chairs and Section Student Representatives Meet-Up 2021
- IEEE R10 Student Membership Development Summit 2021

All three events were focused on driving the student activities carried out in the region, empowering student leaders, and sharing experiences of the volunteer leaders of IEEE.

IEEE R10 SB Chairs and Advisers Summit 2021 was held on the 27th March 2021 with the participation of IEEE Region 10 Director – Mr. Deepak Mathur, IEEE MGA SAC Chair – Mr. Hossam Ali, and the winners of IEEE Region 10 SAC awards for the year 2020. Mr. Deepak Mathur appreciated the efforts of the newly appointed team and emphasizes the importance of the contributions made by the Student Branch Chairperson, Counsellors, and Advisors. Mr. Hossam Ali shared the objectives and planned activities of MGA SAC and mentioned that every initiative was for the welfare of the students, volunteers, and the enrichment of student branches. Prof. Jennifer Dela Cruz, IEEE Region 10 SAC Chair, shared the annual plan with the attendees and provided insight into the events organized in the year. Ms. Warunika Hippola, IEEE Region 10 Student Representative, discussed the Student Branch revival initiatives and mentioned that IEEE Region 10 SAC would provide support in such events. Mr. Sai Prashant, Webinar and Training Coordinator, conducted a session on IEEE reporting tools and did a walk-through with the participants. Then, an experience-sharing session was conducted with the participation of the most recent winners of IEEE Region 10 SAC awards. It was followed by a panel discussion with the guest speakers moderated by Ms. Ain Hamizan, Webinar and Training Coordinator, enabling the participants to resolve their concerns. The summit concluded with the closing remarks from Prof. Christian Enoval, Webinar and Training Coordinator.

IEEE R10 SAC Chairs and Section Student Representatives Meet-Up 2021 was held on 5th June 2021 with the participation of IEEE Region 10 Director - Mr. Deepak Mathur, Vice-Chair - Membership, IEEE MGA SAC - Ms. Simay Akar, and Project Manager, IEEE Asia Pacific Limited - Ms. Ewell Tan. With the opening remarks, Prof. Jennifer Dela Cruz focused on the importance of the roles of both the SAC Chairs and the SSRs when conducting student activities at the sectional level. Mr. Deepak Mathur provided valuable insights on how IEEE can be used for career growth and the need for continuous support from SAC Chairs and SSRs for the student branches. Ms. Simay explained how the coordination has to be maintained among MGA, Regions, Sections, and SBs when an event is organized. Ms. Ewell did a comprehensive session on Student Branch Branch rebates and opportunities. Following that session, Ms. Warunika presented the developments and plans of Region 10 SAC including student membership benefits. Mr. Chamika then presented the revised IEEE Region 10 SAC Chair and SSR Operations Manual which consisted of responsibilities, activities, tools, and documents. Following that, an experience sharing session was conducted with the participation of SAC Chairs from a selected set of Sections to share their best practices with the volunteering community. Overall, the summit was moderated by Webinar and Training Coordinators, Mr. Sai Prashant and Ms. Ain Hamizan. The summit concluded with the closing remarks from Prof. Christian Enoval, Webinar and Training Coordinator.

R10 Women In Engineering Committee

WE as WIE #1 "Smart Career Management"

Akila Wijethunge, IEEE R10 Women in Engineering Committee

The inaugural session of "WE as WIE" organized by IEEE R10 Women in Engineering Committee was held on 31st August 2021 successfully. ''WE as WIE'', a series of workshops focusing on career management, soft skill development, leadership skills, and technical skills where engineers from diverse backgrounds share their experiences with prospective women in engineering and participants. The event was organized by Aishwarya Bandla and Akila Wijethunge on behalf of the IEEE R10 committee. IEEE R10 Director, Deepak Mathur grace the occasion by welcoming the participants. The first session was conducted on Smart Career Management by Chitra Venkatraman (IEEE Senior Member - North Jersey Section, Region 1).

Chitra explores the concept of Smart Career Management, which is a continuous process of aligning oneself with the work environment in addition to focusing on effective execution of work assignments. Key topics covered in this presentation include Personal Development, Organization, Time Management, Communication, Management of Peer/Manager Interfaces, Performance Review, Networking, and Corporate Awareness. Examples collected from engineers and managers with decades of experience were used to illustrate how most work assignments and events can be executed to get both short-time results and long-term benefits. As key takeaways, a top-10 of "do's" and "don't's" were shared with the participants.

Along with the workshop series, another initiative by IEEE R10 WIE, "MentorHer" as a pilot mentorship program, was announced and participants were encouraged to take part in the remarkable initiative as well. IEEE R10 WIE Chair, Emi Yano and the executive committee would like to thank all the participants for making the event a success.

WE as WIE by IEEE R10 Women in Engineering Committee

R10 Young Professionals Committee

Activities Supported by IEEE R10 Young Professionals Student-YP Joint Activity Fund

Mohammed Hussein Saleh Mohamed Haram, Student-YP Transition Coordinator for

IEEE R10 Young Professionals

IEEE R10 Young Professionals Student-YP Joint Activity Fund was initiated to improve Young Professionals (YP) and students' collaboration at the Section level. It aims to improve student engagement with YPs and their activities, learn, get inspired, and get motivated to excel in their professional careers through career development events, coaching, and entrepreneurship workshops. Moreover, this initiative aims to provide a platform for students to network with Section-level IEEE Young Professionals volunteers and get motivated to contribute to their Section YP Affinity Group activities after graduation. In the first round of the fund for 2021, five activities were awarded grants. Below is the summary of these winning activities as reported by the projects' leads based on the date of the activity:

IEEE YP SL STUDPRO 4.0 BY IEEE YOUNG PROFESSIONALS SRI LANKA SECTION

The event was held virtually on several dates starting from 8th May, 14th May, 7th June to 15th June 2021, with a Career Fair scheduled on 9th October 2021. This event was organized in collaboration with 19 Student Branches in Sri Lanka Section. A total of 212 participants attended the program via several sessions. StudPro 4.0 also organized a workshop series to groom fresh graduates to prepare themselves to achieve their dream job. In the scheduled Career Fair, the objective is to bring together students and companies for hiring opportunities.
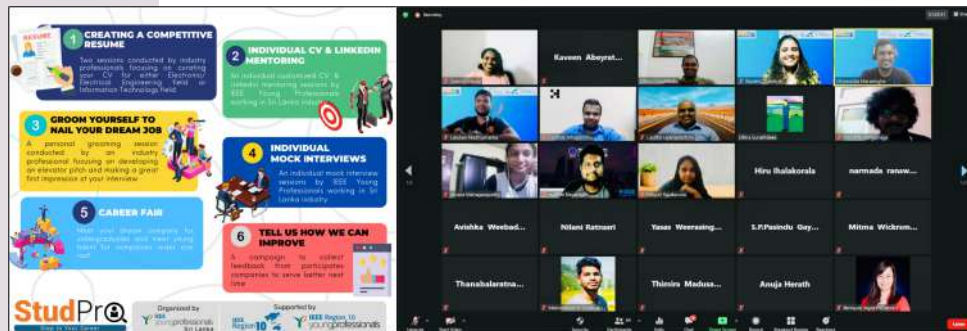
Figure 1: IEEE YP SL StudPro 4.0 by IEEE Young Professionals Sri Lanka Section

HIGHPRENEUR – AN ENTREPRENEURSHIP KICKSTART PROGRAM 2021 BY IEEE YOUNG PROFESSIONALS MADRAS SECTION

The activity was conducted virtually from 13th to 16th May 2021. This activity was organized in collaboration with IEEE Madras Student Activities Committee, IEEE Madras Women in Engineering, IEEE Madras Education Activity, IEEE Madras TEMS Chapter, and IEEE Madras SSIT Chapter. A total of 30 participants via several sessions attended the program. This event was designed to pave the path for young energetic minds to spark revolutionary thoughts and let our youth explore the vibrant path of entrepreneurship.

Figure 2: HighPreneur – An Entrepreneurship Kickstart Program 2021 by IEEE Young Professionals Madras Section

ARISE BY IEEE YOUNG PROFESSIONALS KERALA SECTION

The event was conducted virtually from 22nd to 30th May 2021. The event was organized in collaboration with IEEE PIE Kerala Section, IEEE SB MCE, IEEE SB FISAT, IEEE SB RIT, IEEE SB LBSITW, and ZETGO. A total of 601 participants via several sessions attended the program. ARISE was an iridescent amalgam of events designed to bring out the entrepreneurial, career, and creative skills of its participants.

YOUNG PROFESSIONS – STUDENT VITALITY ENHANCEMENT AND ENGAGEMENT SUMMIT 2021 BY IEEE YOUNG PROFESSIONALS BANGLADESH SECTION

The activity was held virtually from 29th to 30th May 2021. The activity was organized in collaboration with IEEE BUET Student Branch and IEEE Bangladesh Section. A total of over 184 participants via the two-day sessions attended the summit. The summit had multiple sessions on helping the student members in ascending to their young professional life and career path. These sessions will also inspire them to join IEEE Young Professionals and continue their IEEE membership.

Figure 4: Young Professions – Student Vitality Enhancement and Engagement Summit 2021 by IEEE Young Professionals Bangladesh Section

1ST IEEE YOUNG PROFESSIONALS FUTURE LEADERS SUMMIT 2021 BY IEEE YOUNG PROFESSIONALS MALAYSIA SECTION

The summit was held virtually from 19th to 20th June 2021. This activity was organized in collaboration with IEEE Power and Energy Society (PES) Malaysia Chapter, The Institute of Engineering and Technology (IET) Malaysia Local Network, and IET Young Professional Section. A total of over 1900 participants via the four sessions attended the 2-day summit. The summit included talks, forums, and panel discussion sessions planned to address all the essential needs of future leaders to proceed in their professional career life.

Figure 5: 1st IEEE Young Professionals Future Leaders Summit 2021 by IEEE Young Professionals Malaysia Section

YP Sparkler Summit 2021

Dr. Aishwarya Bandla & Sewwandie Nanayakkara, IEEE Sparklers Summit Organizing Committee

A dazzling fest studded with 900 delegates, 42 distinguished speakers, and 18 collaborators - the very first Sparklers Summit organized by IEEE R10 Young Professionals was a grand success. The virtual gathering held over the Airmeet platform, which brought together young professionals and students across the Asia Pacific and beyond, had a very different feel than the usual summit. With a refreshing start from the keynotes by IEEE President Susan K. Land & President-Elect Prof. Ray Liu, the event flowed in an eventful agenda aimed at improving the audience both professionally & personally.

The two-day summit spread across the 7th & 14th August 2021 featured talks, panel discussions, and workshops under two broad themes catered to the present-day young professionals. With a strong need to

keep pace with the modern day's technological developments, Day 1 was centered around technical and professional upskilling. Thought leaders from across the globe addressed the young minds on topics such as 'Hard Skill Development & Continuous Learning', 'Emotional Intelligence and Influencing', 'Innovation, Entrepreneurship vs Intrapreneurship', and some interesting R&D features talks. With the majority of delegates being a pack of enthusiastic volunteers, Day 2 showcased topics on the spirit and power of volunteering. International practitioners from a variety of fields discussed diverse topics such as 'Volunteering: Social & Personal Perspective', 'The Best YP Practices that You Need to Know', and 'Project Management for Volunteers' to name a few. The summit brought together IEEE leaders to interact with young professionals and students in a panel discussion 'Past, Present, and Future of IEEE' which was a huge hit.

The cherry on the top was the awards ceremony of IEEE R10 SAC and Young Professionals. The 2020 and 2021 awards were announced with all celebratory pomp and splendor. And that was not all! Apart from the main stage sessions, the summit also had several fringe events and competitions which saw delegates participating with feverish excitement. These included a booth expo contest where eight YP affinity groups of the region competed to deliver the best content, and networking sessions that spread across a week.

A huge shout-out to Microsoft, IEEE Young Professionals & IEEE Region 10 for the generous sponsorship, and for the active support of IEEE R10 SAC, IEEE Xtreme, IEEE Antennas and Propagation Society (AP-S), IEEE Professional Communication Society, IEEE PES YP and IEEE Day. Behind the scenes, the event was creatively and carefully planned over 10 months and put together by a very enthusiastic organizing committee led by the Region 10 Young Professionals ExComm. At the end it was all worth the efforts as evidenced by the euphoric energy of the delegates, speakers, IEEE leaders and the Sparklers Summit team.
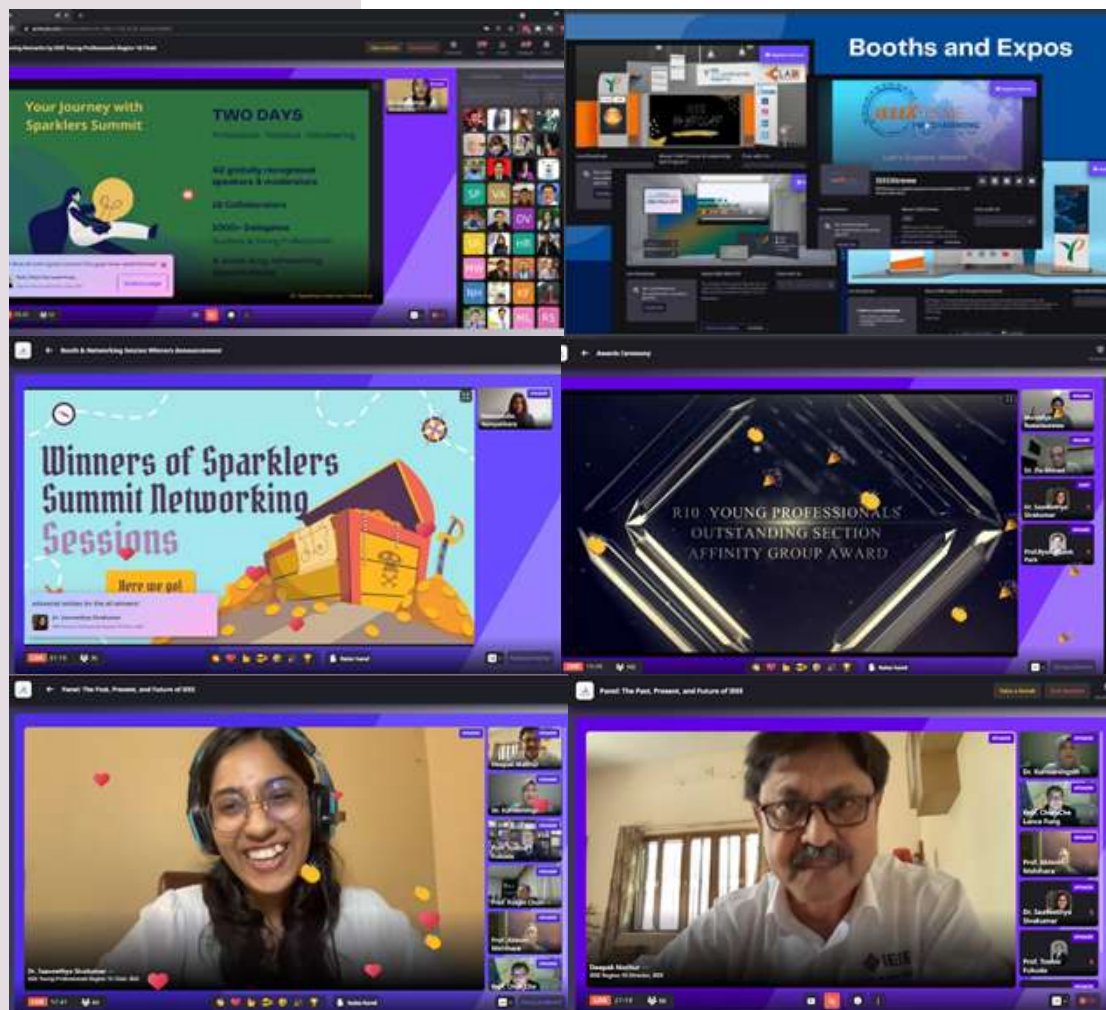
R10 Life Members Committee

Rajendra K. Asthana, Chair for IEEE Region 10 Life Members Committee

Due to the COVID-19 pandemic, Life Members continued with activities in virtual mode. For the first 8 months of the year in 2021, Region 10 LMAGs have reported 110 activities compared to 80 activities during the whole of 2020. The top 4 performing R10 LMAGs in Region 10 are Kerala (40 activities), Delhi (30 activities), Tokyo (14 activities), and South Australia (5 activities). Four activities by Delhi LMAG attracted a large number of non-IEEE members (452, 381, 372 & 366 respectively). Similarly, 4 activities by Kerala LMAG attracted 285, 210, 162, and 210 IEEE Members. During the second quarter, one new Life Member Affinity Group was formed at Sapporo Section, Japan, making a total of 4 new LMAGs formed during the year 2021.

During this year, 5 LMC meetings have been conducted in a virtual mode with the 6th meeting scheduled for 10th September 2021. The first R10 LMAG meet of the year is scheduled for 18th September 2021. Region 10 Operation Manual (2019) for Life Members was revised during July 2021 and is available on Region 10 website. Also, IEEE Life Member Committee Operation Manual was approved on 26th June 2021 during the June Board meeting. This Official Operation Manual for LMC is available on the R10 LM website (https://lm.ieeer10.org/).

The maiden Region 10 Life Members website was inaugurated on 25th July 2021 by R10 Director, Mr. Deepak Mathur. The ceremony was attended by R10 Past Director, Prof. Akinori Nishihara; Director-Elect, Prof. Chun Che (Lance) Fung; LMC Chair, Mr. Scott Atkinson; LMC LMAG Coordinators, Mr. David Bondurant; India Council Chair, Dr. Suresh Nair, R10 ExCom, LMAG Chairs, Council/Section LM Coordinators & R10 LMAC. The LM website is developed by Mr. Viraj Patel, Web Developer and YP from Gujarat Section, India. R10 LM website can be accessed at (https://lm.ieeer10.org/).

Viraj Patel
Web Developer
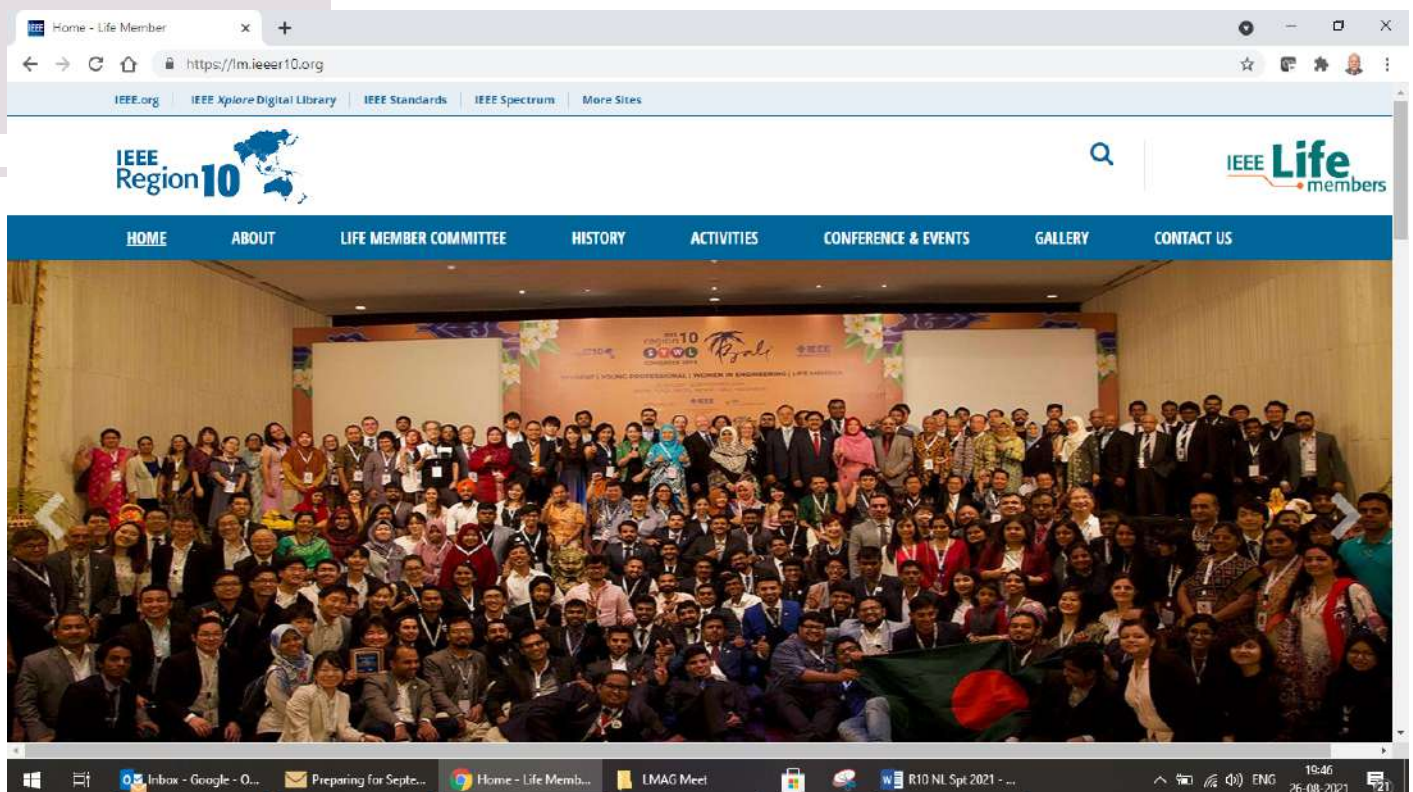
Tokyo LMAG has won the IEEE Life Members Affinity Group Award 2021. The award consists of a Certificate of Recognition (plaque), a grant of USD2000 for future Affinity Group activities, plus a stipend of up to USD2000 for a representative to travel to the IEEE event to receive the award. LMAG Chair, Mr. T. Scott Atkinson congratulated Tokyo LMAG at a Zoom meeting on 2nd July 2021. Other invitees present were LMAC members, LMAG Tokyo officers, Region 10 Director, Director-Elect and Past Director, LMC Chair, LMAG Chairs & web developers. Mr. Scott mentioned that this was the first occasion when LMC is interacting with IEEE LMAG award winners. Region 10 Director congratulated LMAG Tokyo officers who explained various activities done by them during 2020. LMAC appreciated the website, newsletter, and communication with life members of Tokyo LMAG, and Mr. Scott thanked all participants.

Region 10 Life Member Activities Committee Member, Mr. Ritvik Bansal has been selected as one of the Region 10 Young Professional (YP) Ambassadors. He belongs to the IEEE Delhi Section. He has recently graduated in Manufacturing Processes and Automation Engineering from Netaji Subhas Institute of Technology, Delhi and has taken up a Career in Product Management. LMAC wishes him all success.

R10 LIFE MEMBER OUTSTANDING VOLUNTEER AWARD

In response to the call for R10 Life Member Outstanding Volunteer Award 2021 (launched in 2020), nominations received were evaluated by the LM Award Selection Committee. Prof. V. K. Damodaran, Kerala Section, India has been awarded the 2021 R10 Life Member Outstanding Volunteer award. Congratulations to Prof. Damodaran!

R10 LIFE MEMBER PHOTOGRAPHY COMPETITION

For the first time, the R10 Life Member Photography Competition was arranged for all Life Members in Region 10. All entries received were judged by a judging panel comprising of Region 10 ExComm. Members include Past & Current R10 Directors & Director-Elect. As per the results announced, the First Prize Winner is Dr. Harbans L. Bajaj, IEEE LF, Delhi Section, India while the Second Prize Winner is Prof. Kenichi IGA, IEEE LF, Tokyo Section, Japan. Congratulations to Dr. Bajaj and Prof. Kenichi.

Category Section-Level Activities More Than 5 Years Old – First Prize Winner – Dr. Harbans L. Bajaj, IEEE Life Fellow, Delhi Section, (Certificate + Cash prize of USD200)

IEEE President Dr. Michel Lightner met Dr. A.P.J. Abdul Kalam, President of India on 29th April 2006 at Rashtrapathi Bhawan, New Delhi, India.

Category Photographs of Historical Engineering Tools/Project – Second Prize Winner – Prof. Kenichi IGA, IEEE Life Fellow, Tokyo Section (Certificate + Cash prize of USD100)
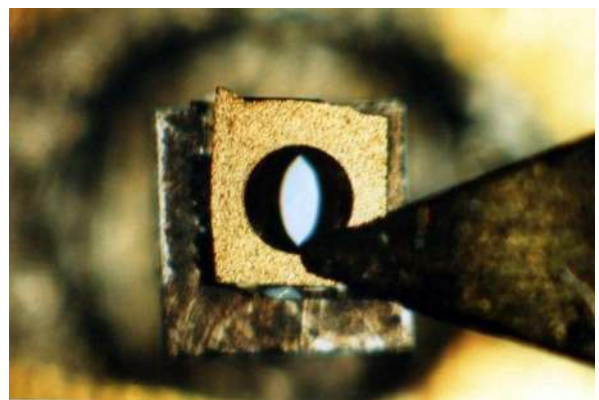
A VCSEL device in 1982

R10 Newsletter Committee

Mohammad Faizal Ahmad Fauzi, Chair for IEEE Region 10 Newsletter Committee
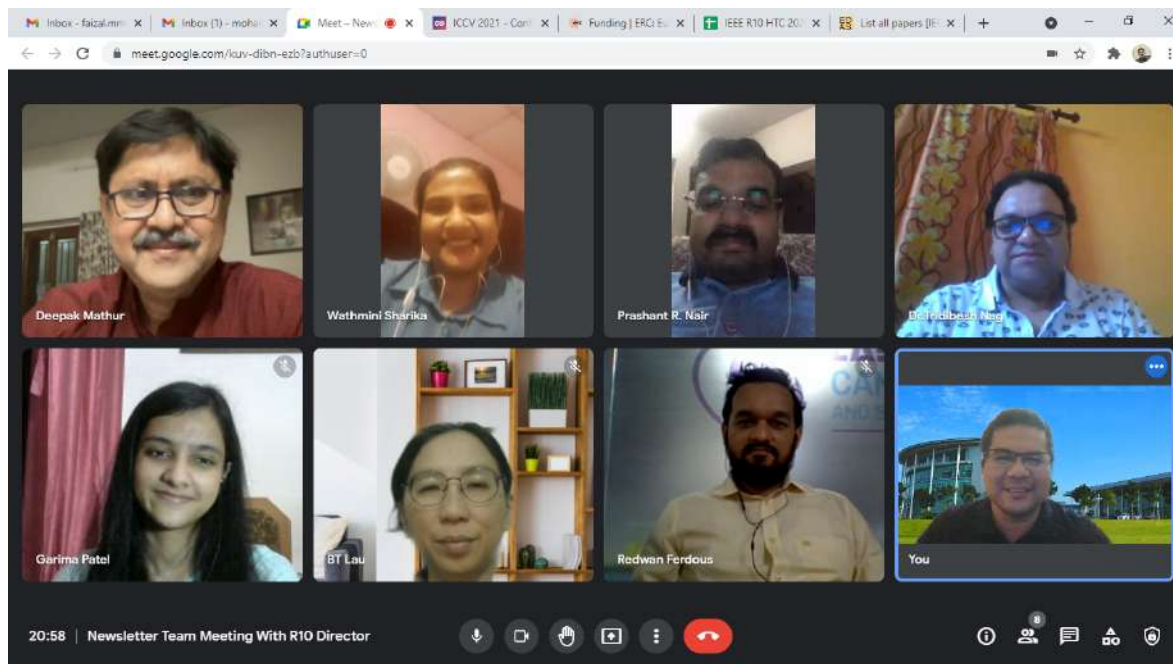
On Monday 4th October 2021, the Region 10 Newsletter Team had a short get-together with the R10 Director, Deepak Mathur. To cater to the diverse geographical locations of the team, the meeting was held at 6 PM Indian Standard Time/8.30PM Malaysian Time. Mr. Deepak expressed his appreciation to all the team members who have done a wonderful job in creating rich and interesting content for the benefit of readers. He reiterated that IEEE Region 10 Connect is the face of R10, and also shared some suggestions to further improve the newsletter. To celebrate the hard work of the team, Mr. Deepak also suggested having a virtual party for the team, similar to the one R10 Executive Committee had with IEEE President Susan K. Land recently.

2. KNOW YOUR R10 VOLUNTEERS

R10 Volunteer – Amit Kumar [Hyderabad Section]

2020 MGA Achievement Award Recipient

Amit Kumar is a DNA Forensics Professional, Entrepreneur, Engineer, Bioinformatician, and an IEEE Volunteer. In 2005, he founded the first Private DNA Testing Company Bio Axis DNA Research Centre (P) Ltd in Hyderabad, India with a US Collaborator. He has vast experience of training over 1000 crime investigation officers and helped over 750 criminal and non-criminal cases to reach justice by offering analytical services in his laboratory. His group also works extensively on Genetic Predisposition risk studies of cancers and has been helping many cancer patients from 2012 to fight and win the battle against cancer. Amit was a member of the IEEE Strategy

RECEIVING THE IEEE CIS OUTSTANDING CHAPTER AWARD BY IEEE PRESIDENT MARIOS POLUCARPU IN 2013

Development and Environmental Assessment Committee (SDEA) of IEEE MGA. He is a senior member of IEEE and has been a very active IEEE volunteer at Section, Council, Region, Technical Societies (Computational Intelligence, Sensors Council and Engineering in Medicine & Biology), and MGA levels in several capacities.

Amit has driven a number of IEEE conferences, conference leadership programs, entrepreneurship development workshops, innovation, and internship-related events. He was the Chairman of IEEE Hyderabad Section in 2020 and has also served the Section as Vice-Chairman, Secretary, Treasurer, Chapter Chair, and conferences committee chair. He was a visiting Professor at SJB Research Foundation till 2020. Amit is the founder chair of the IEEE Computational Intelligence Society and IEEE Sensors Council chapters of IEEE Hyderabad Section. He was awarded the prestigious IEEE MGA Achievement award in 2020 for his outstanding contributions at Section, Council, and Region levels and the 2020 Outstanding Volunteer award by IEEE India Council. He has also served the IEEE India council as Vice-chair of Conferences, Technical and Professional Activity, and Branding coordinator. Currently, he is a member of the IEEE MGA Nominations and Appointments Committee, Chairman of IEEE Region 10 Section Chapter Committee, and Chair of IEEE Sensors Council chapter of IEEE Hyderabad Section.

Amit was the interim chairman of IEEE CIS Chapter of Hyderabad Section and he organized a record number of 23 activities in the year 2012-2013. He organized diversified workshops, technical colloquiums, sponsorship to conferences, and a special session at the WCCI Conference (a flagship conference of CIS). Amit and his CIS Team at the section level organized several DLPs under the society and these initiatives fetched the CIS chapter to be named as Outstanding Chapter Award in the first year itself. During his tenure as IEEE Region 10 SAC in 2015-2016, Amit worked

very closely with the SAC team of all R10 Sections and there were a phenomenal number of student branches initiated in remote areas, where the Section didn't have much reach. During his tenure with India Council and Sections, while leading the conferences committee, technical and professional activities committees,   processes were streamlined, and an online form was created after consulting with IEEE CMS Team. This gave a phenomenal increase in the quality of conferences organized with the help of the Section's involvement. The Section was able to weed out bad or low-quality conferences at a much early stage after receiving the relevant information from the requests. Section used to reject many TCS requests. A conference norms document was prepared which paved the way for all TCS requests through the Section. This document was vetted by several TPC members and appreciated.

Amit played vital roles in organizing several editions of INDICON, TENSYMP, TENCON, SSCI, and initiated the flagship conference of IEEE Hyderabad Section HYDCON in 2020. He represented the Section in IEEE POCO at Beijing, Budapest, Singapore, and also instituted a local conference leadership program in India now popularly called COW (Conference Organizers Workshop). This has now become a yearly conference education program in India and is attended by more than 100 interested IEEE conference organizers. This event has received support from IEEE MCE, IEEE Region 10, and IEEE India council and gained popularity in very few years of existence. During his tenure, Amit organized several conference leadership programs and created a trained pool of conference education volunteers in every zone of the Section. He meticulously contributed to the Section operations manual and bylaws revision; developed the Section level awards document, and the yearly planning templates under his tenure as Chairman of IEEE Hyderabad Section. These had brought a structured system of communication among the members to the volunteer leaders for quick and transparent interaction and collaboration.

R10 YP Volunteer – Rentao Gu [Beijing Section]

Rentao Gu is currently an IEEE Senior Member and a Full Professor in the School of Information and Communication Engineer at Beijing University of Posts and Telecommunications, China. He has been actively contributing as an IEEE volunteer since 2004 when he was elected as the Publicity Chair of IEEE BUPT Student Branch. In 2005, he was the Publicity Chair and Organizing Committee Member of Region 10 Student Congress 2005. This was the first big IEEE event that he was involved in. After that, he organized many student activities on campus, including technical lectures, paper writing seminars, enterprise visits, etc. His contribution significantly increased the IEEE impact and student membership during that period.

RECEIVING BEST YP AWARD IN CHINA FROM THE R10 DIRECTOR, PROF. KUKJIN CHUN.

After his graduation from BUPT in 2010, he continued to serve IEEE as an active volunteer. In 2010, he formed IEEE GOLD (Graduates of the Last Decade) Affinity Group in Beijing Section, which is the first GOLD Affinity Group in China. GOLD Affinity Group is the predecessor of Young Professional (YP) Affinity Group, aiming to serve young engineers and young scientists for their career development. After that, he held many IEEE STEP (Student Transition and Elevation Partnership) events jointly with local IEEE student branches from 2011 to 2020, to help the transition from student member to regular member. Besides, he helped to form the IEEE Computer Society Student Chapter as an advisor in 2012. Under his leadership, Beijing YP Affinity Group received the Best YP Award in China in 2017.

KNOW YOUR R10 VOLUNTEERS

He has also been serving in various IEEE societies. For example, he was a member of the Membership Development Committee (MDC) of IEEE Computer Society in 2012 and 2013 aiming to promote IEEE-CS membership in the Asian region, and Young Professionals Standing Committee of IEEE Communication Society in 2016 and 2017. He was also a member of the Award Committee for IEEE ComSoc Best Young Professional Award 2016, Planning Committee of IEEE ComSoc YP Events for WCNC 2017 and Globecom 2016, and moderator of IEEE ComSoc YP Events on IEEE GreenComm2016.

After various volunteering positions in IEEE, he has been appointed as a member of the Young Professionals Committee of IEEE Region 10 in 2019. Since then, he has been focusing on the YP development in the Asian region. With the support of Region 10 YP Chairs, he is trying to form new YP Affinity groups and operates the Region 10 New/Dormant YP Fund to provide the seed fund to new YP affinity groups and re-activate the existing ones. As an invited speaker, he has shared his experience and understanding of Young Professional

in IEEE Students Young Professionals Women in Engineering Life Members (SYWL) Virtual Congress 2020 and IEEE Region 10 Young Professionals Affinity Group Officer Training 2021. Prof. Rentao Gu always emphasizes the connection between the enterprises and the universities. In his roles in IEEE, he organized many university-industry joint events to make the members stick together and to enhance the industry-university cooperation for joint innovations. As a teacher, he brought the industrial application cases into the course lectures, took real industrial problems into final course evaluation, invited technique experts from well-known companies to share their cutting edge views on the future direction, and developed a novel network platform testbed for undergraduates' innovation projects. These measures greatly stimulated students' innovative consciousness and cultivated students' innovative ability, and he was awarded Beijing Municipal Outstanding Young Teacher in 2021.

R10 Student Volunteer – Syed Sadia Hossain [Bangladesh Section]

2021 WIE Inspiring Student Member of the Year Award Recipient

Syed Sadia Hossain is a graduate student of Information and Communication Technology (ICT) from Bangladesh University of Professionals. She started her IEEE journey as a general member of the IEEE BUP Student Branch in 2018 and also actively contributed as a volunteer of the IEEE Bangladesh Section. In 2019, she started working for the establishment of the Women in Engineering Affinity Group in her Student Branch, and eventually became the Chairperson of IEEE BUP Student Branch WIE Affinity in 2020-2021. She was elected as the Administrative Executive of IEEE Computer Society Bangladesh Chapter (Student Body) in the year 2020. She represented her Section and student Branch in IEEE platforms by being a volunteer or Ambassador of IEEEXtreme, IEEE Rising Stars Conference, and IEEE Bangladesh Section's International Congress, etc. At WIE,

Sadia tried to promote a community of strong individuals who hold each other's best interests in heart, validate self-worth before anything and dignify accomplishments irrespective of gender. Keeping that notion in her heart, Syed Sadia Hossain was able to achieve significant victories. In Bangladesh, she won the "Inspiring Women Award" in the category of Leaders of Tomorrow by Bangladesh Brand Forum in 2020 and for her efforts and active participation in IEEE and WIE, she received the Honorable Mention of the "WIE Outstanding Student Volunteer Award" during the IEEE Bangladesh Section's Awards Night in 2020.

Recently, she became the "2021 IEEE Women in Engineering Inspiring Student Member of the Year" awarded by the IEEE Women in Engineering Committee. Her strongest support behind these successes was her advisor Mahdia Tahsin and her hardworking team of IEEE BUP SB WIE Affinity Group.

Working as the Chairperson of IEEE BUP Student Branch WIE Affinity Group was the turning point of Sadia's IEEE journey. This Affinity Group was formed in November 2019 and it was a big challenge for her to start amidst the global pandemic in 2020. But her goal was to increase the membership retention and brand value of IEEE WIE by working in versatile sectors

of engineering and society. She tried to motivate her team to engage in every area of development through the IEEE WIE platform. Her suggestion to her peers was - "Through technical or humanitarian activities, an IEEE volunteer should always contribute to the betterment of the society". With this concept in mind, she and her team managed to organize 15 successful events including national and international career sessions, technical and research workshops, competitions, etc. She also took a humanitarian initiative for a fundraising program during the COVID-19 pandemic. As a Chair, she made the events not limited to only university students but also organized outreach and mentorship programs to promote women in engineering for the pre-university young women, for which the group was awarded the 'Reaching Locals' project and also been selected amongst the top 16 OU's to receive funding support by the IEEE Region 10.

The biggest reward for Sadia was to bring one of the most prestigious awards of Bangladesh for her affinity group within the very first year. Her leadership and teamwork helped the group to hold the glory of obtaining the "IEEE Bangladesh Section Outstanding, Women, in Engineering Affinity Group Award" in just its first year of activities.

There were a lot of struggles behind this success but any first experience is always hard and memorable. To cherish these memorable experiences, Sadia and her team planned to create a newsletter named "SHE"- the first official publication of IEEE BUP SB WIE AG. This newsletter was published to promote the theme of reconstructing the stereotypes against gender discrimination and to re-narrate a world without any gender narratives defining someone's work.

https://drive.google.com/file/d/1FizYGXBEw727MzVYAMfHq8Ml9y4IFAyl/view?fbclid=IwAR2u2_1OTGK-DS6TT7MIxSeCdRY9-tHdqyMjvJTlz9pWE0mLAvbg19911ho
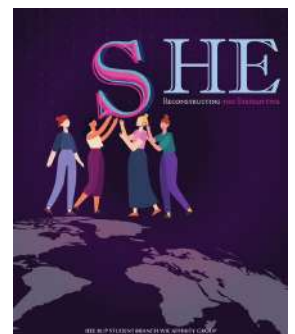
IEEE BUP STUDENT BRANCH WOMEN IN ENGINEERING AFFINITY GROUP, LED BY SYED SADIA HOSSAIN, HAS BECOME THE "OUTSTANDING WOMEN IN ENGINEERING AFFINITY GROUP OF THE YEAR" IN IEEE BANGLADESH SECTION (REGION 10) IN 2020

"WIE OUTSTANDING STUDENT VOLUNTEER OF BANGLADESH (HONORABLE MENTION)" IN 2020 AWARDED BY PROFESSOR CELIA SHAHNAZ, THE CHAIRPERSON OF IEEE BANGLADESH SECTION

KNOW YOUR R10 VOLUNTEERS

R10 Entrepreneur – Edhem "Eddie" Čustović [Victoria Section]

Edhem "Eddie" Čustović (Choostovich) has been an active IEEE member since 2010, when as a Ph.D. student, he established the La Trobe University Student Branch in Melbourne, Australia. Since then, Eddie has not looked back holding dozens of senior leadership roles within the IEEE including Chair of the IEEE Victorian Section, member-at-large at one of IEEE's major board Publication Services and Products, Vice-Chair of the Young Professionals global committee and most recently he was the chair of the Industry Engagement Committee and Industry Advisory Committee appointed by the IEEE Board of Directors. In 2016, Eddie founded the grassroots entrepreneurship program, 'IEEE Innovation Nation' which has to date educated hundreds of young upcoming entrepreneurs in developing economies.

Eddie is an experienced engineer and problem-solver as well as a founder and owner of numerous businesses. He is an entrepreneur, thought leader, mentor, philanthropist, and global citizen. His entrepreneurial mindset is partly "genetically encoded" and partly influenced by the environment he grew up in as he likes to say. As a 7-year-old, Eddie fled with his family from the civil war in the former Yugoslavia and found shelter in Switzerland. This is where Eddie and his brother took their first entrepreneurial steps by learning how to recycle glass and plastic bottles at local shopping centers. It wasn't long until the Custovic brothers had an "army" of refugee children working for

CHAIRING IEEE INDUSTRY ENGAGEMENT COMMITTEE AND IEEE INDUSTRY ADVISORY BOARD

them, collecting bottles and cans and thus cleaning entire suburbs of Zurich (Switzerland) to turn into cash. "*I remember making our first thousand Swiss Francs at 8 years old. Our parents thought we robbed someone. Turns out we had a knack for making the best out of any situation. We are a product of our environment. Spending almost 4 years as a refugee without a proper home instills survival instinct into anyone*", says Eddie.

Today, his motivation is to use the powers of engineering, education, networking, entrepreneurial mindset, and the spirit of positive change to empower individuals and grow local economies while delivering the scientific advancements of our finest minds for the benefit of future generations. His multicultural background, multilingualism, and 'borderless' approach to work enable him to take a politically and culturally sensitive perspective on life, volunteer roles, and professional career. His passion for innovation, design thinking, and entrepreneurship has culminated into a deep commitment to making positive change for the world. For him, the intersection between scientific innovation and human empowerment is where we can really "disrupt the future".

By day, he is an academic and coordinator of the Work Integrated Learning program in the School of Engineering and Mathematical Sciences, La Trobe University. He is also the founder/director of the La Trobe Innovation & Entrepreneurship Foundry (LIEF), an interdisciplinary think tank, and he has secured millions of dollars for R & D projects in infrastructure, program, and travel grants in a variety of sectors including defense, communications, power, food & agriculture, automotive, health, sports technology, and civil/construction. His current research encompasses work with four of five La Trobe University's Research Focused Areas; Building Healthy Communities, Securing Food Water and Environment, Transforming Human Society and Sport, Exercise and Rehabilitation. He has founded and co-founded numerous companies where he still plays an active role in, including Scientific Instruments Australia where he serves as managing director.

CO-FOUNDED SCIENTIFIC INSTRUMENTS AUSTRALIA WITH
MARTIN TRTILEK FROM CZECH REPUBLIC

FOUNDED BOSNIA & HERZEGOVINA FUTURES FOUNDATION

In 2015, with his brother, he founded the Bosnia & Herzegovina Futures Foundation that empowers youth through education, technology, mobility, & leadership development. Their life goal & vision is to bring positive change to a country that has been ravaged by war & ethnic division. Eddie is a regular contributor to online & print media, TV & radio globally.

3. KNOW YOUR R10 ORGANIZATIONAL UNITS

R10 Large Section - IEEE Malaysia Section

Nur Ashida Salim, Communication & Newsletter Chair for IEEE Malaysia Section

IEEE Malaysia Section was formed on 28th July 1985 with 400 members from both industry and academia. As of September 2021, the IEEE Malaysia section has 2,783 active members. IEEE Malaysia Section consists of 3 subsections, 24 technical chapters, 2 council chapters, 3 affinity groups, 30 student branches, and 17 student branch chapters. Over the past 36 years since its establishment, IEEE Malaysia Section has developed into a thriving organization and has experienced various phases of development. IEEE Malaysia Section with its technical chapters has successfully organized major events ranging from conferences and technical talks to social events. Some of the major events organized in the past include Region 10 Conference (TENCON) 2000 and 2017, Region 10 Symposium (TENSYMP) 2014, and Region 10 Humanitarian Technology Conference (R10 HTC) 2020. As a result of these activities, the image and presence of IEEE in the Malaysian public and in Region 10 have enhanced tremendously. IEEE Malaysia Section has received several accolades from Region 10. It was awarded Region 10 Distinguished Section Award in 2000 and Region 10 Distinguished Large Section Award in 2006. The Section has also initiated its own conference i.e. Student Conference on Research and Development (SCOReD) in 2001. SCOReD has become a highly successful Asia Pacific regional conference series. Every year, student branches in Malaysia take turns in hosting this conference.

2021 ACTIVITIES

COLLABORATIVE NETWORKING

IEEE Malaysia Section held an online collaboration meeting with the Institution of Engineering and Technology (IET) Malaysia Network on 15th June 2021. This meeting was held to discuss potential collaborations between IEEE Malaysia Section and IET Malaysia Network. The collaborations include but are not limited to joint technical talks, conference organization, and joint awards. IET Malaysia Network was represented by its chairman Ir. Amir Farid Abdul Majid and his team while IEEE Malaysia Section was represented by its Chair, Assoc. Prof. Ir. Dr. Md Pauzi Abdullah and his team. IEEE Malaysia is looking forward to more collaborations with other professional bodies to broaden their networking.

STUDENT LEADERSHIP CAMP

IEEE Malaysia Section Student Leadership Camp 2021 is one of the flagship events of the IEEE Malaysia Section under the Student Activities Committee (SAC). This event is organized annually and all Student Branches (SB), Student Branch Chapters (SBC), and Students Affinity Groups (AG) are invited to attend. A total of 30 SBs, 17 SBCs and 5 AGs were invited to the 2021 edition.

In this leadership camp, several topics were presented as follows:

- IEEE Malaysia Section and Volunteering Within
- Introduction to IEEE Malaysia Section SBs, SBCs, and AGs
- Awareness of IEEE Membership Benefits
- Awards and Fund Opportunities
- Volunteers Tools (vTools)
- Membership Development - Best Practices
- Student Branch Best Practices – Example

SENIOR MEMBER ELEVATION WORKSHOP

This program is a hands-on workshop, wherein the participants are exposed to filling up the IEEE senior membership application form with the guidance of facilitators. The program was facilitated by Dr. Nordin Ramli and Dr. Rosmiwati Mokhtar with assistance from Prof. Zuhaina Zakaria. Two breakout sessions were held where participants were guided by these facilitators. IEEE Malaysia plans to conduct this workshop regularly in order to assist chapters in encouraging more members to apply for senior membership.

R10 Medium Section - IEEE Sendai Section

M. Sato, Chair for IEEE Sendai Section

IEEE Sendai Section was established in 1998, when the Tokyo Section which was founded in 1956, was divided into eight sections covering all of Japan. Sendai City is located in the northern part of the main island of Japan. It is the largest city in this region, and the Section covers the northeast (Tohoku) region of Japan. There are strong academic activities as this region is home to several universities. More than 15% of the members in the Section are students. While many students leave the area upon graduation, new members join, and the number of members in the Section is steady at around 700 members.

Due to the relatively large number of student and graduate student members, the Sendai Section emphasizes educational activities. Every August, there is the Tohoku region joint convention of the Institute of Electrical Information Engineers, Japan, to which the IEEE Sendai Section gives technical support. At this convention, since 2002, the Sendai Section has organized a student session, wherein students present their work in English. Around 30 to 40 papers have been submitted to this session every year, and IEEE Sendai Section Student Awards are also awarded to selected papers. At this convention, the Section hosts one seminar on writing technical papers in English, and another on making technical presentations at international conferences.

North Japan was devastated by the Tohoku earthquake and tsunami in March 2011, and most members suffered from this massive natural disaster. The tsunami destroyed the social infrastructure, including electric power supplies and electrical communication systems. At the same time, it presented us with many tasks to be solved, and IEEE members began to prepare to face the next disaster. IEEE Sendai Section started a series of special lectures introducing these activities. For example, the title of the lecture in 2019 was "Toward an idealized resilient communication system". Membership promotion is a very important part of the Section's activities. At the annual Section conference, members who have attained the grade of IEEE Fellow were invited to give lectures. New IEEE Senior Members are also recognized at this event.

The recent flurry of activities of affinity groups in the Sendai Section is remarkable. Sendai WIE was established in 2017 and hosts many meetings to encourage female members and selects the best paper in an organized session for Sendai WIE Awards. IEEE Sendai Life Members Affinity Group (LMAG) organizes lectures, inviting specialists in related fields. This series of lectures is not only for members with rich experience but also for young members. COVID-19 prevents us from enjoying face-to-face meetings, but LMAG meetings have been held online to IEEE and non-IEEE members all over Japan and the participation

sometimes exceeds 100. The IEEE Sendai Young Professionals (YP) Affinity Group was established in 2020 and has organized topical meetings to stimulate young engineers.

Recently, the Sendai Section has won several awards and recognitions. These include:
- 2016 Outstanding Section Membership Recruitment and Retention Performance
- 2019 R10 Best Membership Retention Medium Section Award
- 2019 Outstanding Section Membership Retention Performance
- 2019 Outstanding Section Membership recruitment and retention
- 2021 R10 WIE Outstanding Section Affinity Group Award to IEEE Sendai Section WIE AG

STUDENT AWARDS CEREMONY (2019)

SENDAI WIE (2021)

R10 Small Section - IEEE Karachi Section

Muhammad Faisal Khan, Co-Chair for IEEE Karachi Section Student Activities Committee (SAC) and Section Chapter / Subsection Coordinator

IEEE Karachi Section, established on 22nd May 1978 as a sub-section and upgraded to a Section on 17th July 1982, is one of the active Sections of IEEE Region 10. It covers two provinces of Pakistan (Sindh and Balochistan) and also has one subsection (Quetta). Karachi Section has both industrial and academic representations in its executive committee which is very beneficial for IEEE members, students, and young professionals. The office-bearers of the Section include Prof. Dr. Bhawani Shankar Chowdhry (Chair), Prof. Dr. Tariq Rahim Soomro (Vice-Chair), Prof. Dr. Asim Ur Rehman (Secretary), and Engr. Moiz Rahman Memon (Treasurer). The office bearers are experienced and actively contribute to the smooth running of various activities under Karachi Section's umbrella. It is pertinent to mention that the Section Chair is the recipient of the prestigious Distinguished National Professor Award by the Government of Pakistan in 2017.

The Section has four society chapters namely the Power & Energy Society, Communication Society, Computer Society (CS), and the recently formed Industrial Electronics Society. These chapters regularly organize various activities for the grooming of students and professionals. IEEE Karachi CS Chapter received the 2019 Outstanding Chapter Award "Runner Up" by Executive Director IEEE R10 in February 2020. The same chapter also received an award in 2020 for organizing the highest number of activities by the Section.

Karachi Section strongly believes in collaboration and therefore there are also two joint chapters in the Section along with Lahore and Islamabad Sections. These joint chapters are the Control Systems Society and Robotics & Automation Society. Conferences are the forums for sharing knowledge, to support this exchange of wisdom, the Section organized three conferences in 2020 (iCoMET, ICISCT, ICETST) and five conferences in 2021 (MAJICC, HONET, ICECUBE, IMTIC, ICCIS).

KNOW YOUR R10 ORGANIZATIONAL UNITS

There is also a SIGHT chapter in Karachi Section which has won USD4800 funding under the special HAC/SIGHT COVID-19 funding program, completed in July 2021. In June 2021, Mr. Parkash Lohana (IEEE Karachi SIGHT Chair) was inducted into IEEE-HKN, an honor society as a professional member. The Section also has an active WIE affinity group (AG) that continuously organizes various events for the professional growth of women. Young Professionals (YP) AG of the Section is also very energetic. Two funds have been awarded to IEEE Karachi Section's YP in 2021 by R10 under the UpSkill 2021 program and Student-YP Joint Activity Fund 2021. The Section has had strong bonding with the industry for many years with funding won by the Section in 2021 under the Industry-Academia Engagement Workshop program. Students are the priority of the Section, there are 30 student branches in the jurisdiction of the Karachi Section, thus the Student Activities Committee (SAC) of the Section has always been proactive.

Some members of the IEEE Karachi Section are also part of various committees of IEEE Region 10. These include Prof. Dr. Tariq Rahim Soomro (R10 Computer Society Southern Area Coordinator 2020-2021), Mr. Parkash Lohana (2021-2022 R10 Professional Activities Committee Chair), Mr. Muhammad Rafay Shaikh (graphic designer & supporting webmaster for IEEE MGA SAC), and Engr. Sarang Shaikh (MGA IEEE madC Global Chair 2017-2018). Prof. Tariq Rahim Soomro has also been honored as IEEE Computer Society Distinguished Visitor 2021-2023.

R10 Subsection - IEEE Mangalore Subsection

Pushparaj Shetty, Chair for IEEE Mangalore Subsection

IEEE Mangalore Subsection (MSS) was formed on 10th July 2013 under IEEE Bangalore Section. The Subsection today includes more than 1100 members, among whom 70% are students. The monthly meeting of the executive committee is held in institutes having student branches or industries and incubation centers.

To support student members' knowledge and training needs, IEEE MSS conducts regular events such as distinguished lectures, project and paper competitions, and workshops. One of the flagship events is the annual International Conference on Distributed Computing, VLSI Electrical Circuits, and Robotics (DISCOVER). The 5th edition of DISCOVER will be held on 29th – 30th November 2021 at NMAM Institute of Technology Nitte (https://www.ieee-discover.org). A democratic process selects the conference's host institute to give every institute a chance to host this prestigious conference. Over the years, the DISCOVER conference has become self-sufficient by attracting local researchers, reviewers, session chairs, and speakers. The papers that appear at the conference have been published in IEEE Xplore and have been widely cited.

The "I2CONECCT" (Industry Institute Conclave on Electronics Computer and Communication Technologies) is another flagship event showcasing project exhibition and competition. The Subsection is instrumental in starting the IEEE Day celebrations as Professor K M Hebbar memorial lectures beginning from 2017. Prof. Hebbar was the pioneer of Electronics and Computer Engineering in coastal Karnataka and has influenced the life and work of many students.

The outstanding volunteers are recognized for their services and awarded during the annual general meeting

(AGM) under the Young Professional, Women in Engineering and Outstanding Volunteer categories. The AGM also sees student branches' presentations of their year-long activities, which are judged to give financial assistance for the following year. The student branches are encouraged to conduct outreach programs for the benefit of the community and society.

The Subsection has a registered head office located in NMAMIT Nitte (https://nmamit.nitte.edu.in/). Nitte is a small village on the foothills of Western Ghats, recognized worldwide due to the educational institutions. The financial transactions are presented by the treasurer every quarter in the Execom meetings and at the AGM. A chartered accountant audits the Subsection accounts. In 2020, IEEE MSS received a grant from IEEE R10 to conduct the Conference Organizers Education Workshop (COEW) and 'Reaching Local' program. The years 2020 and 2021 have seen four new student branches established, taking the total tally to 15. More than 8 society chapters and two affinity groups were also inaugurated. The Subsection has reported more than 180 activities in the vTools and published reports in the Bangalore Section and R10 newsletter .

In the coming days, the Subsection's focus would be to attract more startups, entrepreneurs, and companies into IEEE, towards building a tech-eco-hub and corridor in this region. IEEE MSS has started a dialogue with entrepreneurs, startups, and incubation centers. It has launched the Industry Tech webinars and plans to hold 'Mangalore Tech Conclave', a networking event to mentor budding entrepreneurs.

EXECUTIVE COMMITTEE MEETING OF IEEE MSS HELD ON 17TH JANUARY 2021 AT SJEC, MANGALORE

The IEEE Mangalore Subsection places on record its appreciation for the continued support extended by the IEEE Bangalore Section. It looks forward to working in unison with the new North Karnataka and Mysore Subsections. The selfless efforts of all past chairs of IEEE MSS have significantly helped in shaping the Subsection.

Website: www.ieee-mangalore.org

R10 Student Branch - IEEE Curtin Sarawak Student Branch

Sia Chun Wan, Chair for IEEE Curtin Sarawak Student Branch

IEEE Curtin Sarawak Student Branch (SB) was formed in 2012 with 10 members and now has grown to 60 members. Curtin University Sarawak is one of the offshore campuses of Curtin University Australia. Several events are co-organized together with IEEE Curtin University SB in Australia, such as an online job application workshop. The vision of IEEE Curtin Sarawak SB is to provide a technical platform for IEEE members and Curtin students to apply their technical knowledge and network in their areas of interest as well as to contribute their skills and passion to local and global communities, especially toward communities in Malaysia.

IEEE Innovation Nation Malaysia 2020 – Techno-preneurship Bootcamp

IEEE Curtin Sarawak SB had done quite a lot of outstanding events in the past few years. One of the most memorable events for 2020 is the "IEEE Innovation Nation Techno-preneurship". The aim of this event was to turn students into entrepreneurs driven by technology invention and creation and to tackle issues with technologies and adequate knowledge on how to set up a start-up. Other than Malaysia, this event also took place in Sri Lanka, Bosnia and Jamaica. Throughout the event, participants were able to access multiple resources which included pre-recorded online and mentoring sessions. 56 participants from Malaysia joined this event.
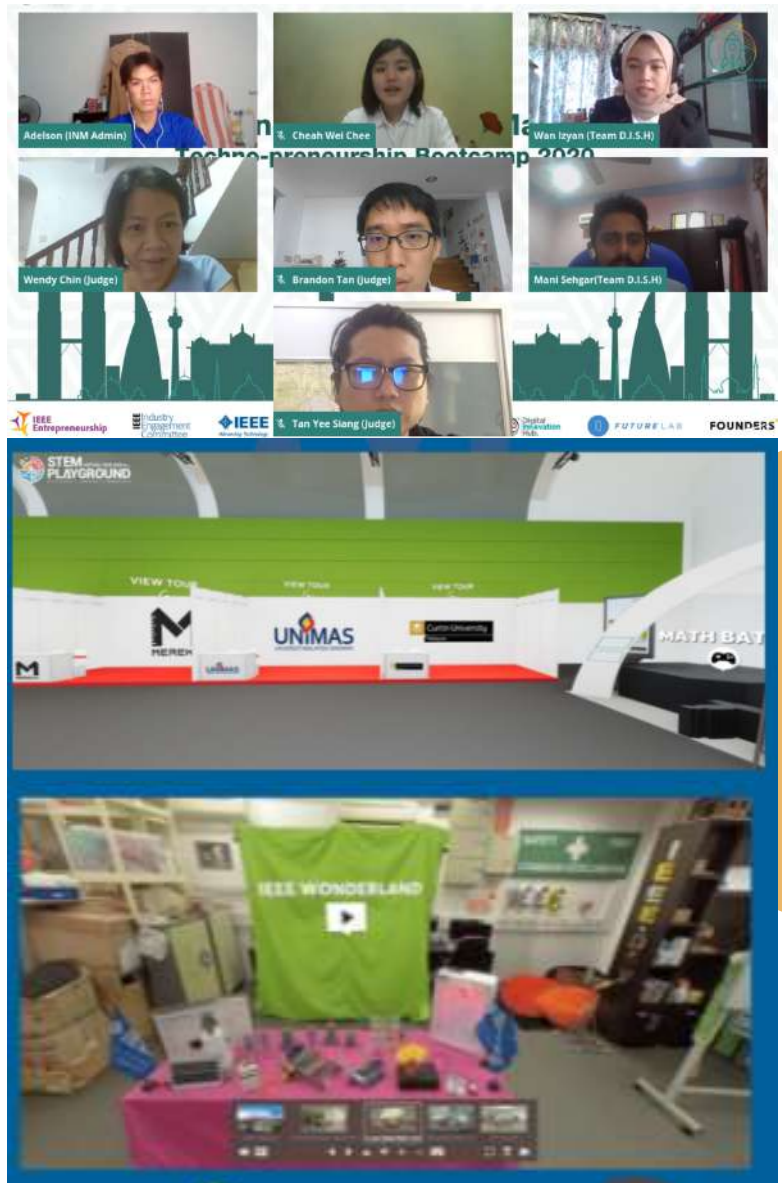
STEM Playground Virtual Fair 2020

STEM Playground Virtual Fair 2020 is another memorable and big event organized by IEEE Curtin Sarawak SB. STEM Playground Virtual Fair is the first online interactive virtual STEM in Sarawak organized in collaboration with TEGAS, Sarawak Multimedia Authority (SMA), Ministry of Education, Science and Technology Research, and Sarawak Education Department (MESTR). This virtual fair was held from 28th September to 4th October 2020. The event featured games and challenges for all the participants. The "STEM Playground Virtual Fair 2020" saw a total of 188,058 visitors to the website.

IEEE Curtin Sarawak SB had won several awards in the past years, which included:
- IEEE Regional Exemplary Student Branch Award 2020
- IEEE Malaysia Outstanding Student Branch Award 2020
- Darrel Chong Student Activity Gold Award 2020
- IEEE Malaysia Outstanding Student Volunteer Award 2020 – Nurul Ain Binti Hamizan (Chair of IEEE Curtin Sarawak 2020)
- Darrel Chong Student Activity Gold Award 2019
- IEEE Malaysia Outstanding Student Volunteer Award 2019 (1st Runner-up) – Tay Chuan Zhi (Chair of IEEE Curtin Sarawak 2019)
- IEEE Malaysia Outstanding Student Volunteer Award 2019 (2nd Runner-up) – Alvin Lau Siew Nam (Vice-Chair of IEEE Curtin Sarawak 2019)
- The FOES Sustainable Project Award (Curtin FOES Student Academy Challenge 2019)
- The FOES Community Engagement and Student Leadership Award (Curtin FOES Student Academy Challenge 2019)

For more info regarding IEEE Curtin Sarawak please do visit our:

Website: https://ewh.ieee.org/sb/malaysia/curtinsarawak/
Facebook page: https://www.facebook.com/IEEE.CurtinMalaysia

KNOW YOUR R10 ORGANIZATIONAL UNITS

R10 COVID19 Heroes – IEEE St. Joseph's College of Engineering

Covid-19: A virus which made people's lives impotent
Sreekanth R, Counselor for IEEE St. Joseph's College of Engineering Student Branch

On 31st December 2019, the World Health Organization (WHO) was informed of cases of pneumonia of unknown cause in Wuhan City, China. A novel coronavirus was identified as the cause by Chinese authorities on 7th January 2020 and was temporarily named "2019-nCoV". People without knowing the level of seriousness of this virus for the first few months lived a normal life. This pandemic had a huge effect on the population. Throughout the epidemic, the IEEE St. Joseph's College of Engineering Student Branch Chapter has worked tirelessly to implement numerous methods to raise awareness about the pandemic. The SB organized many webinars and sessions to create awareness to the public. Each and every session sparked the young brains of the Student Branch to come up with various project ideas and outreach activities. Apart from student branch members, school students and fellow college members also gained awareness about the pandemic.

Under the Bavani Officers Association, a group of IEEE members from St. Joseph's College of Engineering Student Branch Chapter came up with the idea of a low-cost automatic hand sanitizer. The cost of the automatic sanitizer costs around USD4.50, which is affordable for all citizens. It can be handled by anyone anywhere since it operates on a simple mechanism. After the successful completion of the automatic hand sanitizer, the sanitizer was made available to those who operate small and big scale businesses. The crew members sold out the sanitizer below the fixed price in their neighborhood. Even in local tea stalls, medical shops, and grocery shops, hand sanitizer created a great impact on the public. The team members are now working on digitizing this project.


Doctors, nurses, and medical practitioners are the ones working so hard to save our lives. The IEEE Student Branch organized a virtual session on the COVID-19 awareness program "Dawn in the dusk" by three eminent Doctors (Dr. M. Logaraj - MD, Professor & Head, Epidemiology, Health System, Department of Community Medicine, SRM Institute of Science and Technology, Chennai; Dr. G. D. Devi - M.S. Ophthalmology, Regional Institute Of Ophthalmology, Govt Eye Hospital, Egmore, Chennai Medical Officer in COVID Duty, Chennai; Dr. V. Prassanna, Ex. Assistant Medical Officer, Ministry Of Defense Puducherry). The doctors provided us with insightful information on how to be safe and aware of COVID-19. Dr. G.D. Devi gave insight about what is COVID-19, the way the covid-19 spreads, and the precautions that have to be taken during this pandemic as well as the epidemic period in a brief. She insisted on everyone to stay home and follow the government rules. This program was mostly focused on the COVID-19 and its prevention methods.

There is a distinction between teamwork and individual work; teamwork can accomplish anything in a short amount of time. Our IEEE Student Branch came up with a fantastic fundraising idea: each IEEE member in our student branch gave a modest amount of money, and the team eventually raised $134.69 (₱10000) which was donated to the Chief Minister's Corona Fund.

The college staff has been fully vaccinated with two doses, and 60% of the students have been vaccinated as a result of these sessions. It creates awareness among every individual who is yet to be vaccinated. At the end of the session, the team got a massive response from the audience. Due to this pandemic, our physical health and mental health have suffered a huge impact. As a stress relief, our IEEE Student Branch has organized a seven-day fitness competition "CRATUS'20 – The Fitness Challenge" which was open to all, and the winners were awarded prizes and certificates.

The pandemic is still ongoing. We will continue to spread awareness among the people and our team is working on different projects. The IEEE St. Joseph's College of Engineering Student Branch Chapter prays that everyone who is affected by this COVID19 for a speedy recovery.
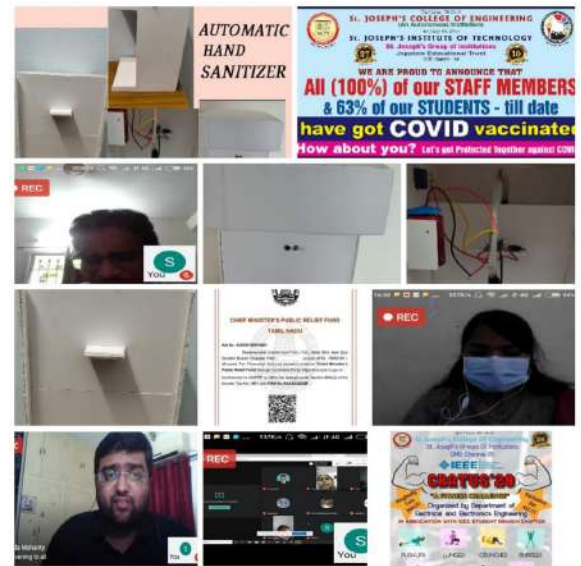
4. SECTION/ SUBSECTION/ COUNCIL ACTIVITIES

IEEE Bhutan Subsection

IEEE Bhutan Subsection Activities for Staff and Student Development

Kamal Chapagai, Chair for IEEE Bhutan Subsection

A webinar on unveiling the character of frequency in electrical power systems was organized by the Centre for Renewable Energy and Sustainable Energy Development, College of Science and Technology, the Royal University of Bhutan in collaboration with IEEE R10 Bhutan Subsection and IEEE Power and Energy Society on 13th May 2021 from 2:00 PM to 3:30 PM.

The main aim of the webinar was to discuss the challenges of measurement and controlling frequency in AC power systems. The speaker for the webinar was Professor Francisco M.G. Longatt (Ph.D.), University of South-Eastern Norway. More than two hundred participants comprising of students, representatives from academia, utility companies, government agencies, and international participants from Norway, Nepal, and India attended the webinar on the Zoom platform.

The speaker introduced the basic concept of frequency and its representation in different mathematical forms in electrical engineering and its importance instability of the power grid. With the increase in integration of renewable energy systems which use power converters, it has become important to study the impact of frequency on the stability of the AC power grid. Professor Longatt shared his research findings on the character of frequency in power systems with a large share of renewables in the power grid and its characteristics. The webinar focused on the measurement of frequency with accuracy and also the capacity to recover in case of frequency deviation. An overwhelming number of questions were posed to the speaker, focusing on frequency stability in the grid with low inertia, the future of the grid with power converters, grid forming converters, and stability of the local grid in case of gridlocked AC power grids.

The fourth Annual Student Research Meet (SRM) was organized by the office of Dean of Research and Industrial Linkages in collaboration with IEEE R10 Bhutan Subsection on 16th May 2021. As the region was under lockdown due to the pandemic, the event was organized online using the Zoom platform. This was the second time the college organized the event online due to the pandemic that prevented mass gatherings. The main objectives were to provide a platform for the students to share their research work and to build a healthy student research ecosystem while encouraging collaborative and interdisciplinary research.

This year a total of 11 research projects were presented by participants from 5 different programs namely Civil, Electrical, Electronics and Communication, IT, and Architecture. The research projects presented in the SRM had gone through pre-selection at the program and department level to reach college competition. The best awards recipients for SRM2021 were:

1. To develop a mobile application to preserve and promote Bhutan's Driglam Namzha (IT Programme).
2. Sublime in Architecture: Promotion of Culture through Sublime Architecture (Architecture Programme)
3. Augmented Reality Guide App for College of Science and Technology (Electronics and Communication Programme)

All winners were awarded certificates and cash prizes during the graduation ceremony.

IEEE Delhi Section

IEEE Delhi Section Student Activities Committee Report: July – August'21
Rachana Garg, Chair for IEEE Delhi Section

IEEE Delhi Section Award Ceremony'21
IEEE Delhi Section SAC organized the IEEE Delhi Section Award Ceremony'21 on 4th July 2021. Attended by over 100 enthusiastic volunteers from the Section, the felicitation ceremony was hosted virtually by the IEEE Delhi Technological University Student Branch. The event was presided over by Prof. Rachana Garg, IEEE Delhi Section and SAC Chair, and the occasion was graced by the auspicious presence of the Chief Guest Dr. Y. Vijaylata Reddy, Vice-Chair SAC, IEEE India Council. The tireless efforts of student volunteers were acknowledged by presenting them with awards in numerous categories namely Dr. JK Pal Memorial Award, Outstanding Student Volunteer Award, Outstanding WIE Student Volunteer Award, etc. Exemplary Student Branch Award and Emerging Student Branch Award were given to four student branches for their continued diligence towards the growth and development of IEEE. Honorary SAC and WIE Recognition were accorded to the Immediate Past Chair of IEEE Delhi Section SAC and WIE AG for their exceptional spirit of volunteerism.

Student Branch Officers Meetup'21
IEEE Delhi Section SAC convened the Student Branch Officers Meetup'21 in virtual mode on 25th July 2021. The event was ennobled by Dr. Rachana Garg, the Chair of IEEE Delhi Section, and Dr. Sneha Kabra, the Treasurer of IEEE Delhi Section, and attended by around 80 representatives from more than 38 Student Branches. The meet was held to enhance awareness about SB ExCom duties, membership benefits, and financial aid available to the student branches. The Student Branch Counselors and Chairs also laid down their ideas, respective plans of action for the upcoming tenure, and the difficulties they faced in the previous year.

Robotronics Workshop
IEEE Drive'21 was a Membership Drive initiated by the IEEE YMCA SB with the assistance of the IEEE Delhi Section and inaugurated by the esteemed IEEE Region 10 Director, Mr. Deepak Mathur. As part of this drive, IEEE Delhi Section SAC took on an innovative endeavor to organize a virtual hands-on workshop named "Robotronics". Mr. B. Bhargav Rami Reddy, the Cofounder and Director at Entecres Labs Pvt. Ltd. was the resource person for this workshop held on 7th August 2021. The more than 60 participants residing throughout North India were provided with hardware kits for the real-time construction of the "light following robot". Dr. Rashmi Agarwal, Branch Counselor of IEEE YMCA SB brought the intriguing session to an end by giving a vote of thanks.

SECTION/ SUBSECTION/ COUNCIL ACTIVITIES

Cyber Innovations in Defense Webinar

Cyber Innovations in Defense Webinar was conducted on 13th August 2021, focusing on the vitality of cyber technology and warfare in the Indian Defense Sector. Enthusiastically attended by over 150 students across India, the event proved to be immensely engaging for the participants. The speakers Maj. General Prabdeep Singh Behl and Col. Sanjeev Relia shared their experience about serving in the Indian Armed Forces and discussed how cyber innovations are used to curb cyberwarfare. The speakers inspired the participants to explore the opportunities in Cyber Technology and contribute to national security by being a part of India's defense structure.

IEEE Hyderabad Section

Student Activities Committee (SAC), IEEE Hyderabad Section
Sree Lakshmi Gundebommu, Newsletter Chief Editor for IEEE Hyderabad Section

The IEEE Hyderabad Section Student Activities Committee, in collaboration with the IEEE Hyderabad Section Computer Society Chapter and the Women in Engineering Affinity Group, hosted Parjanya '21, a monsoon congress on the 24th and 25th July 2021. The congress was organized by the Anantapur and Guntur Subsections.

The IEEE Hyderabad Section Chair Mr. Sreenivas Jasti, the Section Secretary, Dr. Arif Sohel, the Guntur Subsection Chair, Dr. Lalitha SVNL, and the CS Chapter Chair, Dr. MA Jabbar, delivered the welcoming remarks, which was followed by a series of intriguing sessions delivered by prominent speakers, Mr. Varla Bhanu Prakash Reddy, Ms. Tejaswini Pagadala, Mr. Shyam Prasad Rajashekharan, and Ms. Usha Iyer on the themes "Skill-speed & scale your ideas", "Why emotional intelligence will be a crucial skill for future students in a digitally connected world", "Entrepreneurial journey from scratch", and "The 3 P's to success" respectively.

On the second day, introductory remarks were given by the IEEE Hyderabad Section Vice-Chair Dr. R Bala Subramanian, Section Treasurer Mr. Bala Prasad Peddagiri, Anantapur Subsection Chair Dr. Y V Siva Reddy, and WIE Affinity Group Chair Dr. Y Padma Sai. The second day included a blend of inspiring and motivational sessions from prominent speakers, Mr. Aravind Perumal - SVP at Temenos, and Mr. Geetananda Reddy - MD Innvectra. Mr. Sairam Vedam - CMOInnominds and Dr. KMM Rao - Chair IEEE LMAG Hyderabad has also delivered thought-provoking talks on the themes, "How AI and digital is reshaping humanity, business and everything" and "Advances in health care, challenges and image processing" respectively.

Signal Processing and Communication Society, IEEE Hyderabad Section
Sree Lakshmi Gundebommu, Newsletter Chief Editor for IEEE Hyderabad Section

IEEE Signal Processing Regional Meeting on Deep Learning and Biomedical Signals 2021 is the first edition of the regional meeting, organized by IEEE Signal Processing Society Student Chapter under IEEE Vardhaman Student Branch in association with IEEE Vardhaman SB WIE, Computer Society and Education

Society Chapter, from 14th to 16th June 2021. It is part of the Student Professional Awareness Conference (SPAC) 2021, which is being funded by IEEE Signal Processing Society and IEEE Students Technical consortium that encourages women and men in engineering disciplines to share their ideas and build up a professional network to enhance their skills.

The theme of the event "Deep Learning and Biomedical Signals" demonstrates the strength arising from working together as a community, which surely can mark a significant change within us before this year comes to an end. The track focusing on women empowerment in the domains of biomedical signals and deep learning in healthcare can help women advance in their careers and encourage IEEE members in their development goals.

IEEE Islamabad Section

SAC Leadership Summit 2021

Moiz Ahmad, SAC Representative for IEEE Islamabad Section

IEEE Islamabad Section SAC leadership Summit 2021, hosted by NUST SEECS, was commenced on 27th August 2021 (GMT+5). The event started at 9:00 AM sharp with welcome notes by Chairperson NUST SEECS during its Opening Ceremony. Participation kits were distributed and registrations were confirmed before 9:00 AM. After the opening remarks, six consecutive events were executed from 9:15 AM to 1:00 PM.

The first session on Membership Development was conducted by Ms. Mahrukh Rehman and Ms. Suman Zahoor at 9:15 AM. It was an introductory session about IEEE, disseminating the benefits of IEEE membership and spreading its awareness among volunteers. Following that, a seminar on "Personal Branding" was conducted by Dr. Inam Ullah Khan. The speaker guided the participants about the importance of marketing themselves. Some tips and experiences were also shared by the speaker. At 10:20 AM, a seminar on "Conflict Management & Resolution" was delivered by Ms. Maimoona Rehman who brilliantly presented on the topic. The speaker defined the topic briefly and guided the participants about various ways of managing a conflict and the necessary measures required for its resolution. After the event, Student Branch Chairs and their teams were relocated to the conference room for the Branch Chairs meeting. Plans were discussed and discussions were carried out with Branch Chairs regarding Annual Reporting, Vtools Event Reporting, and Officers Reporting from 11:00 AM to 12:20 PM. In parallel to this, a seminar on "Personality Development, Confidence Building & The Art of Selling Your Skills" took place at 11:10 a.m. by speaker Dr. Durre Shahwar who precisely yet effectively delivered a talk covering all aspects of the topic. A Tech Talk on "Multi-model Approach for Crop Health Mapping using Low Altitude Remote Sensing, IoT and Machine Learning" was executed by speaker, Dr. Rafia Mumtaz at 11:25 AM.

The speaker acquainted every participant with all three technical topics. The seminar was followed by lunch and Jummah break at 12:20 PM. The final module of the summit started at 1:40 PM by SAC Chair Engr. Muzamil Mahmood was a session on Volunteer Leadership Training (VoLT) program. All basic ethics and rules were described briefly and an overview of the VoLT program was given. The session was followed by a networking break of 20 minutes and refreshment was offered to the participants. At last, the closing ceremony was commenced by the host student branch with some closing remarks by the IEEE SEECS WIE Chairperson followed by a few words from the principal of NUST SEECS. Shields were

distributed among speakers and IEEE SB Fatima Jinnah Women University for being the 'Best Student Branch' of the event. Lastly, certificates were provided to all participants and the event was concluded at 3:30 PM.
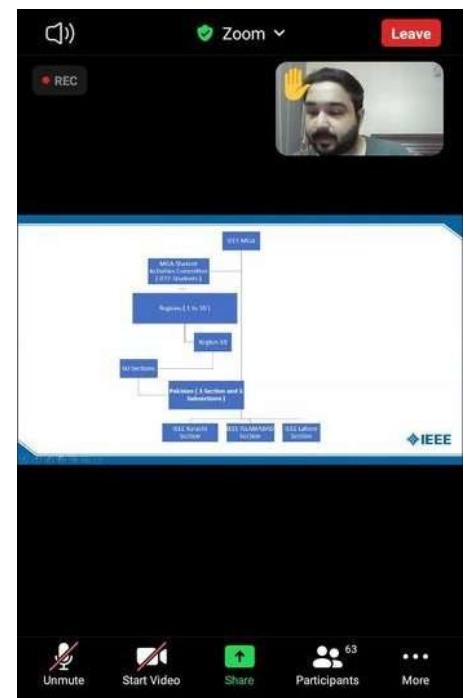

IEEE Karachi Section

IEEE Karachi Section Events and Conference

Bhawani Shankar Chowdhry, Chair for IEEE Karachi Section

Muhammad Rafay Shaikh, Section Student Representative for IEEE Karachi Section

IEEE Student at a Glance and Why is the Internet of Autonomous Vehicles not as Plug and Play as we Think? A Computer Networks Perspective

The IEEE KIET Student Branch presented these exclusive webinars with the support of IEEE Karachi Section SAC. The webinars were very informative sessions for the participants to know about the emerging trends in IEEE, and how and why IEEE is important in grooming a student and enhancing his /her capabilities. The speaker M Rafay Shaikh shared his own journey on how he joined the SAC team and now becoming the SSR of the SAC Karachi Section team (2020-2021). He listed the events that he attended through the platform of IEEE that enhanced his skills and scholarships that students can avail themselves themselves. Dr. Sameer then extensively discussed how the 'Internet of Autonomous Vehicles' or IAV is very likely to exist in the near future. He further drew analogies from legacy internet in comparison to IAV which uses data packets instead of cars. The solutions to the problems could be used to solve algorithms related to IAVs. He showed examples of an autonomous vehicle in the shape of Domino's self-driving delivery van, and how the internet of cars would be similar to a computer network by showing a working simulation of data packets traveling from one destination to another.

The Importance of Professional Communication skills and LinkedIn in Shaping Your Career

IEEE Karachi Section has been organizing conferences in search of life-changing and efficient ways to enrich creative skills in the students. IEEE MUET Student Branch in collaboration with Telecom Engineering Society MUET, Jamshoro, Photonics Student Chapter, and World Merit organized an out-of-the-box and unique webinar to teach university students about evergreen skills. The online webinar had a reach of over 220 attending participants. Dr. Fahim Aziz Umrani talked on "Professional Communication Skills". He emphasized the quality of professional development to produce entrepreneurs and how to tackle the interviews and public speaking. Engr. Fahad Qadeer talked on "Role of LinkedIn in the Professional Career". He described the methods to make profiles impactful for the recruiter by LinkedIn. Engr. Muhammad Zakir

Shaikh then talked about "Secret to Success - Long Term Obsession and Commitment". He explained the importance of UN SDGs, World Merit, Nexus, and Unite 2030.

Mohammad Ali Jinnah University International Conference on Computing
Mohammad Ali Jinnah University launches its first international conference on computing, the Mohammad Ali Jinnah University International Conference on Computing (MAJICC). At the opening ceremony, Dr. Zubair as the patron of the conference expresses his views on computing and its importance in every field of life. Prof. Dr. Shahid Shaikh (IEEE ExCom Representative) also expresses his views on the importance of computing and the IEEE society of students. A total of 105 papers were submitted from all over the world including the USA, Canada, Australia, China, South Korea, Saudi Arabia, etc. After critical evaluation from reviewers across the globe, 35 papers were accepted for presentation at the conference and publication in the IEEEXplore Digital Library.

A Webinar on Future Internet Architecture
Bhagwan Das, Chair for IEEE Karachi Section CS Chapter

"A Webinar on Future Internet Architecture " was organized by Dr. Bhagwan Das, Chair for IEEE Karachi Section Computer Society Chapter on 18th June 2021 (Friday) from 3 PM to 4 PM (Pakistan time) via Zoom. The workshop was organized in collaboration with ACM, IEEE UTHM Student Branch Malaysia, IEEE SMC Malaysia Chapter, IEEE WIE Karachi Section, Advanced Telecommunication Research Center (ATRC), Universiti Tun Hussein Onn Malaysia, and Synergy Research Club, SMC Pvt. Ltd. Pakistan. The webinar was delivered by Dr. Rasheed Hussain who is currently working as an Associate Professor at Innopolis University, Russia. The webinar discussed the Content-Centric Network (CCN) and Named Data Networking (NDN) that need to be implemented in both research and academia. The webinar was attended by more than 100 participants from 8 countries.

IEEE Kerala Section

IEEE Kerala Section Final Year Project Award
Shankar J, Chair for IEEE Kerala Section SAC

IEEE LINK and Strategic Initiatives Academic Engagement (SIAE), IEEE Kerala Section, in collaboration with Genskill, launched the Final Year Projects Awards 2021. Genskill is an integrated platform designed for the Indian engineering colleges ecosystem, bringing together students, colleges, and businesses. They seek to tackle skill-gap challenges by leveraging technology, content, data, and insight to make tomorrow's workforce industry-ready while simplifying recruiting procedures.

The awards recognize student teams' efforts to innovate and contribute to the ecosystem through college-level projects. The initiative's goal was to inspire college students to excel in their research and development efforts. The competition was open to final year (4th year) B.E./B.Tech projects, M.E./M.Tech thesis, and final year BCA & MCA projects in two streams: software (programming, analytics, apps, web applications, coding, artificial intelligence), and hardware (IoT, robotics, mechanical, electrical, electronics, civil, embedded systems).

An innovative category of award was also introduced this year, the 'Most Popular Project Award'. The project team was required to submit a YouTube link to a one-minute video describing the project specifics on the Genskill website (problem statement and desired outcome/solution), which was later published on the

Genskill Facebook page. The award went to the team whose project video garnered the most likes. The initiative effectively reached out to engineering colleges and final year students in Kerala State. It promoted engagement and collaboration of the student community at the state level to foster innovation by recognizing excellence in trailblazing initiatives. The awards were also a great motivator for all the aspiring enthusiasts whose efforts assist in constructing a brighter tomorrow. The competition's screening procedure also required each competitor to demonstrate professionalism, confidence, and zeal. The event evaluated each group's teamwork, progressive communication, and critical thinking abilities. After a three-step selection process, on 27th July 2021, out of the 149 entries received, the following projects emerged as the top three in their specific categories:

Software Stream:
  1. TeachAR- St. Joseph's College of Engineering and Technology, Palai
  2. Webskool- St. Joseph's College of Engineering and Technology, Palai
  3. Quaternary Codes- Govt. Engineering College, Thrissur

Hardware Stream:
  1. DURA-QUAD- Govt. Engineering College, Thrissur
  2. Ahalianz- Ahalia School of Engineering and Technology
  3. Aerolve- Rajagiri School of Engineering & Technology, Kochi

The winners of each category received cash prizes of Rs.15000, Rs.10000, and Rs. 5000, respectively.

Activities of IEEE PES Kerala Chapter

Alina Thomas Thanangadan, Global Publicity Outreach Coordinator for IEEE Kerala Section PES Chapter

IEEE Kerala Section PES Chapter organized 'PES One-on-One' on 3rd July 2021, a training and a hub wise meet-up on 4th July 2021 for the newly appointed PES SBC leaders. The events had 68 and 58 participants respectively. IEEE Kerala Section PES Chapter along with the IEEE PES WiP community organized the third session of WOW 2.0 on 13th June 2021. The guest speaker was Mrs. Gita Ramachandran, Adjunct Faculty at Vidya Academy of Science and Technology, Ex DGM IIS at Bharat Petroleum Corporation Ltd, and had around 50 participants.

IEEE Kerala Section PES YP organized a Malayalam webinar on energy conservation, Urja Nidhi 2.0, on 18th July 2021. IEEE Kerala Section PES YP collaborated with four PES Student Chapters across Kerala to organize STEP from 31st July to 1st August 2021. The event had around 100 participants. A HPSBCP '21 Guidance Program was conducted on 14th July 2021 and had around 30 participants.

IEEE Lahore Section

Visit of Newly Elected Members of IEEE Lahore Section to UMT, Lahore

Kashif Bashir, Vice-Chair for IEEE Lahore Section & Yaser Danial, Dean of UMT

University of Management and Technology (UMT) welcomed the newly elected members of the Lahore Section on 28th July 2021 at 12:00 PM (GMT+5). The Chair of IEEE Lahore Section, Dr. Amjad Hussain along

his team Mr. Kashif Bashir (V. Chair, IEEE Lahore Section and Chair, IEEE ComSoc Lahore Chapter), Dr. Adnan Siddiqui (Secretary, IEEE Lahore Section), and Mr. Shahid Zulfiqar (Treasurer, IEEE Lahore Section), visited UMT in order to build a strong relationship as a joint venture. Dr. Amjad Hussain explained the history of IEEE and described its various aspects. The main objective of the meeting was to discuss different regions of IEEE, their sections, category of events, workshops, and conferences along with awarded competition & prizes given to the participants. They also talked about various types of funding provided for research and projects. Mr. Kashif Bashir gave a comprehensive presentation regarding the services IEEE renders to the scientific community and their benefits. A two-hour of interactive session was attended by the faculty members of UMT.

Subsequently, Dr. Amjad Hussain delivered a presentation on the different Regions and Sections of IEEE. He discussed the major events specifically the IEEE ICOSST'18@UET Lahore, IEEE LSYWTC'16, and IEEE National Workshop on Robotics and Industrial Automation 2017. He further provided a detailed overview of the IEEE technically sponsored conferences such as the International Conference on Innovative Computing (ICIC) organized by the University of Management and Technology, Lahore.

Furthermore, Mr. Kashif Bashir emphasized the competitions such as Hult Competition – UET, KSK, TechHawk – TUF and also mentioned the prize amount specified for different types of competitions. Additionally, he highlighted the worth of awards given by IEEE such as Best WIE Affinity Group, IEEE PES YP Outstanding Award, and Best Poster Award, and the opportunities for faculty members as well as students if they join IEEE.

Mr. Shahid Zulfiqar, being the Treasurer of IEEE talked about the funding and grants provided to the members for different purposes. Some of these grants given were mentioned such as IEEE R10 Funding for IEEE Section Congress 2017. The session ended with expectations to build relationships between academia and industry of Pakistan by engaging students towards the more practical domain. They also met the Rector of UMT, Dr. M. Aslam, and were congratulated for three successful ICIC conferences held at UMT and gave official approval for the 4th ICIC conference to be held in November 2021. The session was attended by a total of 12 participants.

IEEE Malabar Subsection
Roadmap to Success in Engineering Studies
Sabiq P V, Chair for IEEE Malabar Subsection

In India, more than 2.5 million students pass out of 12th grade with science streams every year. They then appear for different competitive exams to get seats in various engineering colleges throughout the country. It is seen that many students face a lot of confusion while opting for a specific branch of study. Some students are very particular about their aim because for them they have the critical influence from their parents who are already in the engineering stream. However, there are more students and their parents who are tangled about the different branches. The two most protuberant questions mystifying these parents and engineering aspirant children nowadays are: which college, and which branch?

In order to guide engineering aspirants and their parents in familiarizing various branches of engineering education and how to make the best use of the four years in an engineering institute, IEEE Malabar Subsection (MSS) conceptualized the program called Roadmap to Success in Engineering Studies. The program that started in 2012 has undoubtedly become the flagship event of IEEE MSS. The title Roadmap to Success was coined by Prof. (Dr.) K. P Mohandas which was later finalized and christened as Roadmap to Success in Engineering Studies by Dr. Sameer S M, Mr. Shone Jose, and past student representative of MSS. This year the subsection organized its tenth edition of the event. The event was inaugurated by Dr. Sathidevi P S, Director-In-Charge, NIT Calicut. Dr. K P Mohandas, Dr. Lillykutty Jacob, Dr. Madhu Kumar S D, and Dr. Sameer S M addressed the participants.

The inaugural session was followed by talks on emerging engineering branches. Dr. Jayaraj P B, Assistant Professor, and Mr. Saimanoj A, Student Secretary, AI Club, NIT Calicut, delivered a talk on artificial intelligence and machine learning. Dr. Sreekanth M, CEO, Kabani Tech, introduced robotics and IoT to the participants. Dr. Subha DP, Associate Professor, NIT Calicut discussed the opportunities and career in biomedical engineering. The program concluded with a panel discussion on the second day. Mr. Varghese Cherian (Head, Technology Services, UST), Prof. A Ravi Kumar (Former Scientist, ISRO Ahmedabad), Dr. Jisha V R (College of Engineering, Trivandrum), Mr. Sahil Sameer (Class of 2022, IIM Indore), Ms. Pooja Haridas (Engineer, QBurst), Mr. Ferdinand Thomas (Power and Performance Engineer, Intel) and Dr. Sameer SM were the members in the panel discussion, moderated by Mr. Shone Jose (Associate Manager, Course 5i). They clarified the different doubts raised by the participants. Overall the event was very successful with 95 participants attending the event from India and outside.

IEEE Sri Lanka Section

"IEEE අඬහැරය"/"IEEE Adaharaya" (IEEE aňdạheəraya)
Sunali Rambukwella, Public Visibility Sub-Committee Chair for IEEE Sri Lanka Section SAC

"IEEE අඬහ⊙ ̧ රය" (IEEE aňdạheəraya); a Student Branch level awareness program which was intended to widen the reach towards student members and potential volunteers was held parallelly in 20 Student Branches on the same date at the same time on 7th August 2021 from 6 PM onwards under the supervision of the IEEE Sri Lanka Section and IEEE Sri Lanka Section Student Activities Committee. The event was mainly focused on membership development and retention while promoting Student Branches to organize events in collaboration with the 'Student Activities Committee.

The aim of this event was to raise awareness of member benefits and encourage student members in the continuous renewal of membership by opening up avenues for undergraduates to be industry-ready. The event was conducted as a series of events under 30 speakers, and 3 different languages; Sinhalese, Tamil, and English.

Building upon the aforementioned aim, two priorities have been set including providing a platform for student members to become more aware of how they can make the most from IEEE, as well as to better shape their lives in terms of leadership to be better suitors to the industry. It is intended to provide them with a good run-through of the importance and benefits of IEEE membership and the opportunities that they are eligible for. Moreover, this event has been an instance where they would be encouraged to get the maximum advantages of their memberships and to grow as individuals despite their field of study.

As mentioned above, the event centered on developing participants' organizational skills, which will undoubtedly benefit their future careers as well as the Student Branches. The major focus on their career development will be a good motivation for the members and thus spread the word among non-IEEE members. As this event provided undergraduates with a good overview of the industry and how IEEE would assist them to meet industry expectations, it has been an ideal portal that paved the path for the student members to heighten their expertise related to their career goals.

IEEE Western Australia Section

IEEE Western Australia Section Activities June-August 2021
Muhammad Hayat, Newsletter Editor for IEEE Western Australia Section

IEEE WA Section's 2021 Student Competition (1st June 2021)
IEEE Western Australia (WA) Section hosted their 2021 Student Competition on 1st June 2021 at the campus of Murdoch University. In total, 6 students from 4 WA universities had participated in this contest. All students presented a project of their choice in 5 minutes and then answered the questions of the technical panelists. A group of IEEE members from universities and industry was the panelists for this competition. Mr. Remember Samu and Steward Qie won the winner and runner-up awards for this competition.

IEEE WA Section's 2021 Mid-year Social and Networking Dinner (6th July 2021)
IEEE WA Section hosted their 2021 mid-year social and networking dinner on 6th July 2021 at Beiyrut

SECTION/ SUBSECTION/ COUNCIL ACTIVITIES

restaurant. This social event has been going on in WA for several years, this year, 50 IEEE members and guests attended the event. This was a great opportunity for some members to catch up and meet each other and network after several months. This year's event also included a prize ceremony at the beginning of the event, in which A/Professor Farhad Shahnia (the Chair of the WA Section) announced the winners of the Section's 2021 Student Competition.

IEEE WA Section's Special Roadmap Workshop with New Committee Members (27th July 2021)
This year, the Chair, Vice-chair, and Chair-elect of the WA Section arranged a special roadmap workshop with the Section's 7 new Committee members who had joined the Committee in 2020 or 2021. This workshop was held on 27th July 2021 at Cannington Leisureplex and the new members were invited to share their ideas about the activities of the WA Section, and their suggestions on how the IEEE WA Section should proceed to further benefit the local IEEE members and attract more members especially from the local Industry. Some interesting suggestions came from this workshop which will be put forward for approval by the Section in the next committee meeting.

IEEE WA Section's 2021 Annual Technical Forum (3rd August 2021)
IEEE WA Section hosted their 2021 Annual Technical Forum, focused on Technology for Tomorrow, on 3rd August 2021 at the 'Double Tree' by Hilton Waterfront. This cross-disciplinary technical event has started for the first time in WA this year. This event was again a great opportunity for about 30 IEEE student members, members, and guests attending the event to hear talks from local experts in various areas under the umbrella of IEEE. The IEEE WA Section would like to make special thanks to the forum's invited speakers Jeremy Parry (Director of DLS Pathology Services and Consultant Pathologist at Western Diagnostic Pathology), Benjamin Dias (Technical Solutions Consultant - Process Automation, Honeywell Ltd.), Glenn Butcher (technology company builder with 25 years experience in senior management at Amazon, Atlassian, and diverse technology startups) and Dr. Amar El-Sallam (Chief Science Officer & Co-Founder, Advanced Human Imaging). Some interesting proposals were presented in the following Section Committee meeting and they were approved.

Winner of the IES Best Chapter Award 2021 - Western Australia IES Chapter
Muhammad Adnan Hayat, Newsletter Editor for IEEE WA Section

The Industrial Electronics Society (IES) Western Australia Chapter has won the 2021 IES Best Chapter Award. This is a very prestigious award, awarded by the IES Awards and Honors Committee to the Western Australia Chapter for demonstrating significant membership growth and benefit plans by the chapter for members. The Chapter was formed in early 2019 by A/Professor Farhad Shahnia and Dr. Hai Wang from Murdoch University who have respectively led the Chapter in 2019 and 2020. The Chapter has technically sponsored 2 international conferences of ICPES 2019 and SGES 2020 and various other events. In 2020, the Chapter had also won the Most Active Chapter Award of the Western Australia Section for membership growth. The IEEE Western Australia Section congratulates all members Dr. Amirmehdi Yazdani, A/Professor Farhad Shahnia, Dr. Hai Wang, Dr. Moayed Moghbel, Dr. MD Shoeb, Dr. Adnan Hayat, Remember Samu, SM Ferdous, Christoph Tuettemann and Jinping Zhao.

5. AFFINITY GROUPS (WIE/YP/LMAG/CNAG) ACTIVITIES

IEEE Sendai Section WIE AG

The Fourth IEEE Sendai WIE Special Session
Miho Shidahara, Secretary for IEEE WIE Sendai

The fourth IEEE Sendai WIE Special Session to share "the charm of research narrated by that female researchers" was held virtually in the Tohoku-Section Joint Convention of Institutes of Electrical and Information Engineers on 27th August 2021. The session consisted of two parts. In the first part, there were 5 oral presentations from Japanese universities covering computers, applications, sensors, health-related issues, and so on. All presenters made efforts to give their explanations understandable and interesting to the participants even with different majors. In the second part, Dr. Emi Yuda from Tohoku University presented her special talk on "Responding to the needs of society with original research!". Dr. Yuda's talk stimulated the attendees for a lot of things, not only the introduction of human condition measurement/estimation but also sending the tips for continuing research happily. All attendees benefited greatly from her talk, and will be happy to challenge various researches.

IEEE Karachi Section YP AG

Coaching on Further Study after Graduation
Muhammad Faizan Usman, Branch Counselor for IEEE YP Karachi

An event funded by IEEE R10 Young Professional (YP) Affinity Group was jointly organized by IEEE YP Karachi Section and IEEE HIET Student Branch. The webinar titled "Coaching on Further Study after Graduation", was held on 29th August 2021 and was attended by 75 students. Prof. Dr. Anwaar Manzar (Dean, Hamdard University, Pakistan) delivered the welcome note. Engr. Ramiz ul Haq (Chair, IEEE YP Karachi Section) discussed the insights of being an IEEE YP member along with its benefit. Engr. Muhammad Owais covered different higher education-related opportunities in Germany. Dr. Memoon Sajid shared various scholarship opportunities available in Korea and Malaysia. Ms. Fatima Hamna delivered detailed guidance related to the Fulbright scholarship and the Erasmus Mundus semester exchange program. Ms. Kehkashan Kanwal presented different national scholarships offered for MS/Ph.D. studies. Engr. M. Faizan (Chair, IEEE HIET SB) served as the lead organizer of this event.
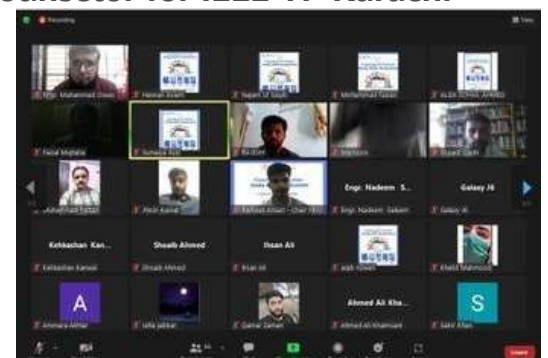
IEEE Kansai Section LMAG

The 1st IEEE Kansai Section Educational Activities Event: Learn Cutting-Edge-Technologies in English (Co-hosted by Kansai Section LMAG)

Tohru Chiba, Vice-Chair for IEEE LMAG Kansai

The 1st IEEE Kansai Section Educational Activities Event aimed to encourage young researchers and high school students. It was held on 21st August 2021, in the hybrid format following IEEE COVID-19 guidance. During the second session of the event, the organizer utilized the video of Professor Yoshua Bengio's keynote speech titled "Challenges for Deep Learning towards AI" from the 2019 International Conference on Robotics and Automation (ICRA) cited from the IEEE Learning Network. To help the attendee's understanding, a short video was produced and shown before the main video, providing the outline, background, and aims of the studies in the speech. In keeping with the theme of the video, the Japanese narration of the short video was created using an AI voice synthesizer.

IEEE Sendai Section LMAG

Sendai Section LMAG Special Lecture Meeting (2021-2nd)

Koji Mizuno, Chair for IEEE LMAG Sendai

IEEE Sendai Section LMAG held the following online Special Lecture Meeting on "Electric Power and Environmental Problem" on 10th July 2021 with 67 attendees.

World Pioneered by Wireless Power Transfer (Prof. Hidetoshi Matsuki, Tohoku University)
'Will wireless power transfer (WPT) technology become our common sense?' The speaker had been involved in WPT technology for nearly 40 years. In this talk, the role of wireless power supply technology is considered from the viewpoint of a solution to a future energy problem.

Initiatives of Smart Power Systems in Tohoku Electric Power Company Group (Mr. Toshiyuki Yamada, Tohoku Electric Power Network Co., Inc.)
As a response to global climate change and carbon neutrality, renewable energy is introduced and developed in the Tohoku area. The speaker talked about their situations and problems such as efforts to VPP which is a new energy management system, and smart approach of network security utilizing sophistication of network operation and AI and IoT.

IEEE Tokyo Section LMAG

LMAG-Tokyo's Lecture Meeting "Challenges and Future Vision of the Electric Power System toward Carbon Neutral and Resilience"
Naohisa Ohta, Vice-Chair for IEEE LMAG Tokyo

A lecture meeting on the future electric power system was held online on 6th August 2021 from 3:00PM sponsored by IEEE LMAG Tokyo with the TPC of IEEE Tokyo Section. The lecturer was Dr. Hiroshi Okamoto, Member of the Board and Executive Vice President of TEPCO Power Grid, Inc. The number of attendants was 163 (including 83 IEEE Members and 30 Life Members).

Dr. Okamoto talked on the future vision and issues of electric power systems focusing on "Carbon Neutral (CN)" that electric power companies are now facing. He first introduced a structure of electric power systems and a concept of 5D's toward the evolution of energy industry: Deregulation (Democratization), Decentralization, Digital Transformation, Decarbonisation, and Depopulation. He also discussed issues associated with transforming the demand-supply structure of the energy industry to achieve Carbon Neutral. The talk attracted many questions on future energy policy and Dr. Okamoto politely answered all the questions in details.

6 STUDENT BRANCH ACTIVITIES

## IEEE University of Asia Pacific Student Branch [Bangladesh Section]

Workshop on "CV Writing" & INWED 2021 Celebration
Rose Mary Gomes, Documentation Team Leader for IEEE University of Asia Pacific Student Branch

On 19th & 20th June 2021, IEEE UAP SB organized a "2-Days Hands-on Workshop on CV Writing", conducted by Muhammad Mahbubul Alam, trainer and founder of 'Thoughts Asia'. This workshop provided 30 participants an opportunity to obtain firsthand knowledge of CV writing.

On the occasion of International Women-in-Engineering Day (INWED), IEEE UAP SB WIE AG & IEEE UAP SB collaborated with IEEE Bangladesh Section & IEEE WIE Bangladesh Section to host "INWED 2021" on 23rd June 2021. The keynote speakers were Dr. Manpreet Kaur (Counsellor, IEEE MRU Student Branch), Aparajita Goswami (General Manager, Technology, Grameenphone), Dr. Tahsina Farah Sanam (Assistant Professor, Institute of Appropriate Technology, BUET), Mini Ulanat (Vice-Chair, WIE, India Council, Anamika Bhakta (Executive Vice President, Robi Axiata Ltd) and Dr. Celia Shahnaz (Chair, IEEE Signal Processing Society (SPS) Women in Signal Processing Committee). Total participation of 32 included esteemed guests from IEEE BDS were recorded.
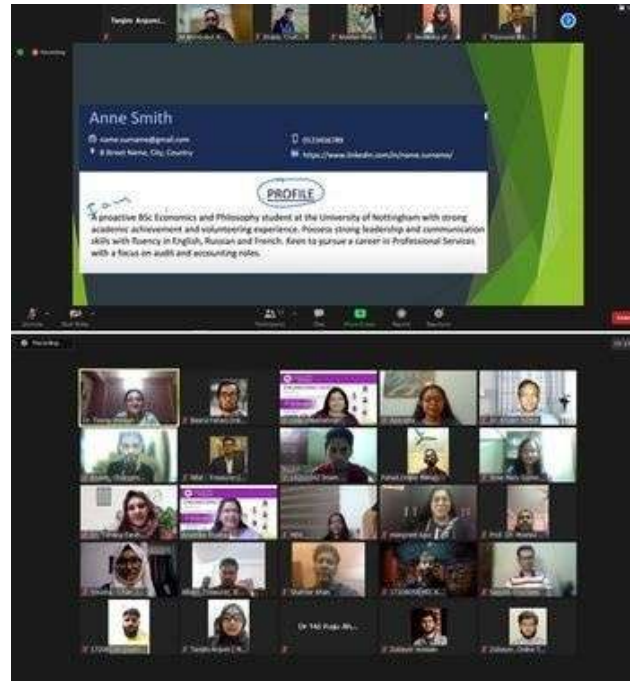
IEEE IIT Kharagpur Student Branch [Kharagpur Section]

Distinguished Lectures on Trustworthy AI and Software-Defined Accelerators for Edge Computing
Sricheta Parui, Vice-Chair for IEEE IIT Kharagpur CS Student Chapter

IEEE Computer Society Student Branch Chapter, under auspices of the IEEE Kharagpur Section, has successfully organized two significant Distinguished Lecturers (DLs) on next-generation advanced digital and secured device technologies.

The first DL on "Software-Defined Accelerators for Edge Computing" was delivered by Prof. Tulika Mitra, Provost's Chair Professor of Computer Science at the National University of Singapore (NUS) on 15th March 2021 which was attended by 22 IEEE and 14 guest members. The second DL was given by Dr. Malek Ben Salem, Director for Security R&D at Accenture, U.S.A on "Building and Operating Trustworthy AI" on 10th May 2021 which was attended by 21 IEEE and 24 guest members. Both of the distinguished lectures witnessed extremely engaging, interesting, and informative sessions. The talks primarily focus on the implications of artificial intelligence and machine learning techniques in realizing more secure and trustworthy software-defined devices for the betterment of humanity.

IEEE Jeppiaar Engineering College Student Branch [Madras Section]

A Day at the Orphanage

Priyadharshini S, Chair for IEEE Jeppiaar Engineering College Student Branch

The spread of COVID-19 has put many lives at stake. It's been a difficult time for people around the world. Unemployment and starvation have become a huge threat to the different people of society. A large group of children has lost their parents and were unable to continue education during this pandemic. As school was their only place of self-growth, self-development, and exposure to the outer world, this may increase mental health problems such as depression, anxiety, and other mental health disorders. To provide moral support to the young souls, the IEEE community of JEC together arranged a program to interact with these children. Priyadharshini S, Rajavendhan G, Poongkuzhali, and Jagadeeswaran K, the student members of the IEEE Student Branch Jeppiaar Engineering College, IEEE Madras Section visited Gladden Children Home, a home situated in Kovilambakkam on 2nd January 2021. This program involved donations, where members of the student branch actively donated money for this program. The donation was spent on fulfilling the requirements of the children at the orphanage, these gifts were given as presents for Christmas and New Year celebrations. These presents were bought based on the various age categories so that they can be useful for all the children.

On visiting the home, they were warmly welcomed by the person in charge of Gladden Children Home. The children were overjoyed and eager to see their new visitors. The members made an interaction with the children by introducing themselves, talking about their interests, and motivating them, followed by playing games such as Anthakshari, hide and seek, etc. SB members also arranged a music DJ to play songs, so the children could dance to the tunes along with them. The day came to an end by surprising the children with presents and chocolates.

No matter how big or small moments may be, these will always remain unforgettable in those children and the member's hearts. It was truly an amazing experience for the members to make a small change in the lives of these children. Emphasizing and cheering should always be a part of human life as it is our responsibility.

STUDENT BRANCH ACTIVITIES

7. AWARDS & FUNDING
IEEE Region 10 Award Recipients 2021
Redwan Ferdous, R10 Newsletter Editor

IEEE Region 10 continues to nurture and develop strong awards and recognitions programs to promote outstanding volunteer services and contributions. This year, several special recognition awards were introduced for Student Branch and SAC volunteers. Please join us in congratulating all the award recipients for the recently announced 2021 IEEE Region 10 Awards.

INDIVIDUAL AWARDS

2021 R10 Outstanding Volunteer Award - Karu P. Esselle (New South Wales Section)
Karu Esselle, FIEEE, FRSN, FIEAust is a Distinguished Professor in Electromagnetic and Antenna Engineering at the University of Technology Sydney, Past Chair of IEEE AP Society Distinguished Lecturer Program and NSW Section. Karu has published more than 650 papers and his h-index is 52. His recent accolades include a finalist for the forthcoming Australian national Eureka Prize for Outstanding Mentor of Young Researchers, 2020 Runner-up to the same prize, 2019 Motohisa Kanda Award for the most cited paper in IEEE Transactions on EMC in five years, 2019 Australian national Research Field Leader in Australia in both Microelectronics and Electromagnetism, and 2020 IEEE New South Wales Outstanding Volunteer Award.

2021 R10 Outstanding Volunteer Award - Mohammad Faizal Ahmad Fauzi (Malaysia Section)
Mohammad Faizal Ahmad Fauzi is a Professor at the Faculty of Engineering, Multimedia University, Malaysia, and the Head of the MMU-UKM-IMU Artificial Intelligence for Digital Pathology (AI4DP) Research Excellence Consortium. He has been an active IEEE volunteer and leader for almost 15 years, which has helped greatly in expanding his research and social network. He served as the Chair for the IEEE Signal Processing Society (SPS) Malaysia Chapter from 2008 to 2013, and the Chair for IEEE Malaysia Section from 2017 to 2018. He currently sits in the IEEE Region 10 (Asia Pacific) Executive Committee since 2019, chairing the R10 Newsletter Committee. He is involved in organizing many international and flagship

conferences such as TENCON, R10 HTC, and ICIP, and has also delivered keynote and invited speeches at many international conferences. Mohammad Faizal was honored to receive the IEEE SPS Meritorious Regional/Chapter Service Award in 2020 and the IEEE Region 10 Outstanding Volunteer Award in 2021.

2021 R10 Outstanding Volunteer Award - Isao Shirakawa (Kansai Section)

2021 R10 Education Activities Outstanding Volunteer Award & 2021 R10 SAC Outstanding Volunteer Award - Mallellu Sai Prashanth (Hyderabad Section)
Mallellu Sai Prashanth, is the BlockChain Developer at Tech Mahindra, Hyderabad, and a recent graduate from Vardhaman College of Engineering. He is presently contributing as a Webinar and Online Training Coordinator of IEEE R10 Student Activities Committee, Vice-Chair of IEEE India Council Student Coordination Team, Section Student Representative of IEEE Hyderabad Section and Chair for IEEE Vardhaman College of Engineering Student Branch, as well as social media and publicity coordinator for the IEEE Region10 Student Activities Committee. He also held the responsibility of Social Media Team Lead of IEEE India Council Student Coordination Team in 2020. He received the IEEE India Council Outstanding Student

Volunteer award in 2019. He is also the recipient of IEEE CS Richard E. Merwin Scholarship, winner of IEEE Region 10 SAC Outstanding Volunteer Award, IEEE Region 10 Educational Activities Outstanding Volunteer Award, and IEEE Region 10 Young Professional Revol 2021 Program.

2021 R10 Humanitarian Technology Activities Outstanding Volunteer Award - Lau Bee Theng (Sarawak Subsection)

Lau Bee Theng started her volunteer journey with IEEE in 2012, where she has developed her professional service with all the supports received from the strong IEEE's international teams. She has been honored to receive various funding and technical support from the Sarawak Subsection, Malaysia Section, R10, HAC, EPICS, etc. Throughout these years, she has also been volunteering in IEEE Smart Village, IEEExtreme, IEEE STEM, IEEE R10 HTC, student branch/network, etc. The projects conducted have been welcomed by all layers of society from children of primary school, youth, professionals, underprivileged communities, even during this Covid19 pandemic. She volunteers diligently to ensure IEEE is essential to the global

technical community and technical professionals everywhere, and be universally recognized for the contributions of technology and technical professionals in improving global conditions.

2021 R10 Life Member Outstanding Volunteer Award - Damodaran V. K. (Kerala Section)

Prof. V K Damodaran graduated in Electrical Engineering from Kerala University in 1962, mastered Electrical Machine Design from Madras University in 1964, taught at College of Engineering, Guindy from 1962 to 1965 and at the erstwhile Calicut Regional Engineering College (presently NIT Calicut) from 1965 to 1984, and also pursued part-time research on Planning and Management of Energy Production and Delivery Systems from 1980 to 1984 under Calicut University. He is a recipient of many awards: Management Leadership Award and Gold Medal in 1999 (Trivandrum Management Association); Third Millennium Medal in 2000 from IEEE as Asia Pacific Historical Achievement Award for his contributions to the Lighting Up Kenya in

2012; Global Meritorious Achievement Award of IEEE Educational Activities Board in 2014; Outstanding Service Award of IEEE Power and Energy Society in 2016; Life Time Achievement Award for Contributions in Renewable Energy by Govt. of Kerala through ANERT Kerala; Life Time Achievement Award in Section Chair category by IEEE India Council in 2020; and R10 Outstanding Life Member Award in 2021. He is currently a member of the Council and ExCom of Kerala State Council for S&T and Environment and a member of ExCom and Governing Board of Energy Management Centre (Kerala).

2021 R10 Women In Engineering Outstanding Professional Volunteer Award - Ray Hua Horng (Taipei Section)

Prof. Ray Hua Horng served as the Chair for IEEE Photonic Society at Taipei Section (2017-2018). She is currently the Vice-President of the Taiwan Photonic Society (2021). She was the recipient of the Fellows of IEEE, OSA, IOP, SPIE, and IET. Since 2019, Prof. Horng has organized and held the meeting of WIO every year. The meeting has a parallel session for kids: "Photonic Children Care". Prof. Horng's activity has attracted more attention from the IEEE, OSA, and SPIE, indicating that

these activities have been recognized by international societies. Furthermore, there are more females to become members of WIO and WIE and support these activities. This year, Prof. Horng extends the experience in WIO and combines with WIE (Engineering), WIP (Physics) and STEM in Taiwan to have united women activities.

2021 R10 Women In Engineering Outstanding Student Volunteer Award - Virendra Pratap Singh (Delhi Section)

Virendra Pratap Singh studied Computer Science and Engineering at The NorthCap University, and founded the IEEE Women In Engineering Student Branch Chapter, The NorthCap University in 2018. He is an adjunct secretary at IEEE Computer Society Students and Young Professionals Global Committee and the recipient of the Outstanding Student Volunteer Award, IEEE India Council. In his tenure, he has conducted more than 300 events and has been one of the five representatives from IEEE Delhi Section to be invited to the IEEE Region 10 Students, Young Professionals, Women in Engineering, Life Members Congress (SYWLC). He is currently working as a Software Engineer at Optum, Inc. He has taken up roles and responsibilities wherever possible and has assisted with the initial formation of 6 technical chapters and affinity groups and reviving over 100 dormant student branches across India.

2021 R10 Young Professionals Outstanding Volunteer in Academic Award - Shankar J (Kerala Section)

Shankar J is working as Assistant Professor at the Department of Electronics and Communication Engineering (ECE) in UKFCET under APJ Abdul Kalam Technological University and a technology consultant. He completed his B.Tech in ECE from the University College of Engineering, Kariavattom (University of Kerala), in 2009. After his brief career as a telecom engineer, he completed his M.Tech in Communication Systems from SRM University, Chennai, in 2013. His research interest is in Brain-Computer Interface and Robotics. He is an active IEEE Volunteer, serving as SAC, IEEE Kerala Section; Academic Working Group Co-ordinator; and MGA SAC SYP member. He is a recipient of IEEE India Council - Outstanding Young Professional Volunteer Award 2020 and IEEE Kerala Section - Outstanding Volunteer Award 2020. He is also volunteering as MoC, NITI Aayog, Govt of India, and as HAM Operator.

2021 R10 Young Professionals Outstanding Volunteer in Industry Award - Christian Enoval (Philippines Section)

Christian Enoval is a graduate of Bachelor of Science in Electronics and Communications Engineering and Master of Science in Industrial Engineering and Management from the Polytechnic University of the Philippines in 2011 and 2015 respectively and is currently a candidate for Ph.D. in Technology Management at the Technological University of the Philippines. He is currently working as Service Manager at Singapore Telecommunications Ltd. (Singtel Philippines, Inc.). He is also an Associate Professorial Lecturer under the Electronics Engineering Department of the Polytechnic University of the Philippines. In addition, he is an IEEE Senior Member and holds several positions in different IEEE organizational units. He is the founding and current Chair of IEEE Young Professionals Philippines, the Public Relations Officer and Society Committee Chair of IEEE Republic of Philippines Section, and the Training and Webinar Coordinator of IEEE Region 10 Student Activities Committee (SAC). In 2018, he received the Outstanding Volunteer Award from the IEEE Republic of Philippines for his valued service and outstanding contribution to IEEE Young Professionals and Section activities.

2021 IEEE R10 Special Recognition to SAC Volunteers - Gaurav Shashikant Sonawane (Pune Section)

Gaurav Sonawane is currently a student at the Indian Institute of Management (IIM), Sirmaur. He is an Electronics and Telecommunication graduate from AISSMS IOIT, Pune. He currently serves as an R10 YP Committee Member. During his tenure as an SSR at IEEE Pune Section, he has taken many key initiatives and activities such as Pune Congress, Eureka, SIG AA, EKAM, YP Connect, etc. He is the recipient of the IEEE India Council Outstanding Volunteer Award in 2019. He has been a leader for humanitarian projects in his Section in collaboration with the government for 2020.

AWARDS & FUNDING

Moreover, he is a good communicator, leader, passionate volunteer, and enjoys a strong network. Executive Committee member of the IEEE Sri Lanka Section from 2016-2020. Peshan is a graduate of the IEEE Volunteer Leadership Training (VoLT) program.

2021 IEEE R10 Special Recognition to SAC Volunteers - Peshan Sampath (Sri Lanka Section)

Peshan Sampath is a member of IEEE and currently the chair for IEEE Sri Lanka Section SIGHT. He is working as a Research Manager at the Centre for Advanced Mechatronic Systems, University of Moratuwa, Sri Lanka. He completed his Bachelor of Science of Engineering Honours (B.Sc. (Hons)) degree and Master of Science (M.Sc.) in Mechanical Engineering from the Department of Mechanical Engineering, University of Moratuwa. He is a Department of Mechanical Engineering, University of Moratuwa. He is an active volunteer in IEEE since 2014 and holds several key positions in the Student Branch, Sectional, and Regional level committees. He volunteered for IEEE Young Professional Sri Lanka from 2016 – 2019 and was an

Executive Committee member of the IEEE Sri Lanka Section from 2016-2020. Peshan is a graduate of the IEEE Volunteer Leadership Training (VoLT) program.

ORGANIZATIONAL UNIT AWARDS

2021 Region 10 Outstanding Large Section Award – Hong Kong Section
The Hong Kong Section was inaugurated in 1972. As of November 2020, the Section has 9,570 members, with 20 Chapters, 3 Affinity Groups, and 5 Student Branches. The Section has vibrant chapters, student branches, and affinity groups. The Section has also previously won the Region 10 Best Membership Growth (Large Section) and Best Membership Retention (Large Section) awards.

2021 Region 10 Outstanding Medium Section Award – Tainan Section
The IEEE Tainan Section was established in 2003 and has grown to a medium-sized Section with currently more than 700 members and 18 chapters along with two student branches. It has been given numerous awards including the outstanding achievement in member retention during the 2015 membership year and the Medium Section Membership Growth Award in 2020. Due to a strong tie with the industry, IEEE Tainan Section Delta Award, Macronix Award, and Himax Award are offered every year to recognize the technical achievements of members in industrial applications.

2021 Region 10 Outstanding Small Section Award – Northern Australia Section
IEEE Northern Australia Section was established in 1994 and covers distances of some 2200 km East-West and 2,800 km North-South encompassing the Northern Territory, Papua New Guinea, and the Northern areas of Queensland. Despite being a small section, Northern Australia has strong membership retention rates and focuses on delivering relevant content. IEEE Northern Australia's headquarters is at Townsville, Queensland with a secondary base in Cairns. It also has a Northern Territory Subsection based in Darwin.

2021 Region 10 Best Membership Growth Large Section Award – Kerala Section
Since its initiation in 1975, IEEE Kerala Section has been actively engaged in various activities, both technical and humanitarian, dedicated to promoting the IEEE vision of 'Advancing Technology for Humanity'. With over 10,000 members to contribute their services and partake in the enhancement of the Section, it has been at the forefront amongst its peers in achieving multiple recognitions during its span, including the MGA Large Section Award and multiple Region 10 Outstanding Large Section Awards in the previous years. The active presence of different affinity groups and more than 10 technical societies, combined with the invigorating efforts of Student Branches and Chapters, make the Section proficient with a scholastic approach.

2021 Region 10 Best Membership Growth Medium Section Award – Western Australia Section
IEEE Western Australia Section was established on 24th May 1984. Since its establishment, the Section has been serving the needs of all IEEE members in Western Australia. The section has several sub-units formed under its umbrella, which includes 10 specialist section chapters, 2 affinity groups (Young Professionals and Women in Engineering), and 4 student branches (Curtin University, Edith Cowan University, Murdoch University, and the University of Western Australia).

2021 Region 10 Best Membership Growth Small Section Award – Macau Section
With the support from IEEE, Macau Section gathers elites and specialists from academia and industry in Macau, covering the fields of power and energy, microelectronics, power electronics, electronic communication, and biomedical engineering. IEEE Macau Section always plays as an international association with local features. In recent years, the Macau government proposes 'Reinforcing urban planning, constructing smart city', and to assort this administrative idea, IEEE Macau Section visits many government sectors and major industries to discuss the developments of smart cities, energy, communications, and related aspects in Macau. Besides, most of the activities were applied CPD (Continuing Professional Development Program), in which participants can enhance their professional knowledge and skills continuously. Through organizing activities, IEEE Macau Section always strives to cohere members and enlarge its popularity in Macau.

2021 Region 10 Best Membership Retention Large Section Award – Kansai Section
Kansai Section was established in November 1998. The 2021/2022 Section Chair is Prof. Yutaka Hata from the University of Hyogo. As of December 2020, Kansai Section comprises 2,155 members, three Affinity Groups, thirteen Chapters, and seven Student Branches. Kansai Section endeavors to enhance activities focusing on young people through affinity groups and educational activities. This year, WIE Symposium was held onsite/online (in a hybrid manner) on 15th September, the Talk Event on "Doctors' Carrier" was held online on 11th September, and the First EA Event was held onsite/online on 21st August. English Presentation Tournament by Student Branch and Brainstorming Tournament by Life Members AG are also planned.

2021 Region 10 Best Membership Retention Medium Section Award – Fukuoka Section
The IEEE Fukuoka Section was founded in 1999. The Section has 8 chapters, 3 affinity groups, 2 student branches, and 866 members including 46 senior members. Every year, international sessions are organized in the annual academic convention and a couple of excellent presenters younger than 35 years old were selected for the "Excellent Presentation Award". Moreover, about 10 students were selected through evaluating their published papers for the "Excellent Student Award". These awards encourage student activity and the number of active student members in 2021 has doubled compared with last year.

2021 Region 10 Best Membership Retention Small Section Award – New Zealand Central Section
New Zealand Central Section has been serving IEEE members since 2005 and has shown significant growth over the years through the introduction of targeted new Chapters, Affinity Groups, Student Branches, and especially supported events. The Section's geographical coverage goes from New Plymouth to Gisborne and down to the southernmost capital city of the world: Wellington.

AWARDS & FUNDING

2021 R10 SAC Outstanding Student Branch Award – IEEE Silver Oak University Student Branch (Gujarat Section)
IEEE Silver Oak University Student Branch has been striving to achieve its motto ever since its inception in 2017, starting with a few members to a strong team within five years. With the continuous guidance of the founding member, Dr. Satvik Khara, and consistent teamwork, it has been recognized with prestigious awards at the Section and Council levels for its ardent efforts along with getting honored by the Region 10 SAC Award 2021. The Student Branch always aims to enrich students' experiences with the finest opportunities and foster a learning experience. With the incentive to attain their mission and vision, they have successfully undertaken numerous events and programs for technical as well as social uplift.

2021 R10 Young Professionals Outstanding Section Affinity Group Award - IEEE Sri Lanka Section Young Professionals Affinity Group
IEEE Young Professionals Sri Lanka (YPSL) was formed in October 2011 with the vision of being the leading professional organization for young professionals in Sri Lanka. Remarking their excellence, YPSL was awarded the R10 Young Professionals Outstanding Section Affinity Group Award in 2021. YPSL is a community, where members can elevate their professional image, expand their global network, and give back to their community. Diverse projects organized by YPSL are well planned, executed, and proven to be impactful and successful. The secrets behind YPSL's outstanding performance are its quality of work, dedication, and well-maintained partnerships with the industry.

2021 R10 Women in Engineering Outstanding Section Affinity Group Award - IEEE Sendai Section WIE Affinity Group
IEEE Sendai Section WIE Affinity Group was established in 2017. It was the fourth WIE in Japan, after the establishment of the Japan Council, Sapporo Section, and Kansai Section WIE Affinity Groups. Every year, it has been organizing the anniversary event and tried to explore its network and encourage the attendee by cheerful heart. It is a great pleasure to receive the 2021 R10 Women in Engineering Outstanding Section Affinity Group Award. This great award will stimulate the affinity group's activity much more. The group would like to further collaborate with female engineers and peers and contributes to improving the diversity of our society.

2021 R10 Education Activities Outstanding Group Award – IEEE Pune Section Education Society Chapter

2021 R10 Humanitarian Technology Activities Outstanding Section Award – IEEE Bombay Section

2021 R10 Women In Engineering Outstanding Student Branch Affinity Group Award – VNR VJIET IEEE WIE Student Branch Affinity Group (Hyderabad Section)

AWARDS & FUNDING

2021 IEEE R10 Special Recognition of Student Branch Award – University of Melbourne IEEE Student Branch (Victorian Section)

# IEEE Region 10 Connect Logo Design Contest

8. OTHER NEWS

IEEE Region 10 Symposium (TENSYMP) 2021

Good Technologies for Creating Future
Bee Theng Lau, IEEE R10 Newsletter Editor

2021 IEEE Region 10 Symposium, TENSYMP is a flagship technical conference of IEEE Region 10. It dates back to 2013. Since then, TENSYMP has grown into a premier IEEE conference. TENSYMP was hosted by IEEE Seoul Section for the first time and held in Korea for the first time. With the world suffering from the coronavirus for nearly two years, engineers, scientists, and researchers have no doubt been facing difficulty researching and communicating with colleagues.

For the researchers in the coronavirus pandemic, TENSYMP 2021 was conducted in a hybrid form with the theme of 'Good Technologies for Creating Future', allowing the speakers and participants to join TENSYMP 2021 and share ideas on the technologies to overcome the present difficulties and create a prosperous future, with the comfort from their countries. TENSYMP 2021 lasted for three days, with 180 papers accepted and presented in 21 oral sessions, four-poster sessions, seven invited sessions, and three special sessions. In regular sessions, many excellent ideas were presented in communications, signal processing, control, energy, devices, and computing fields.
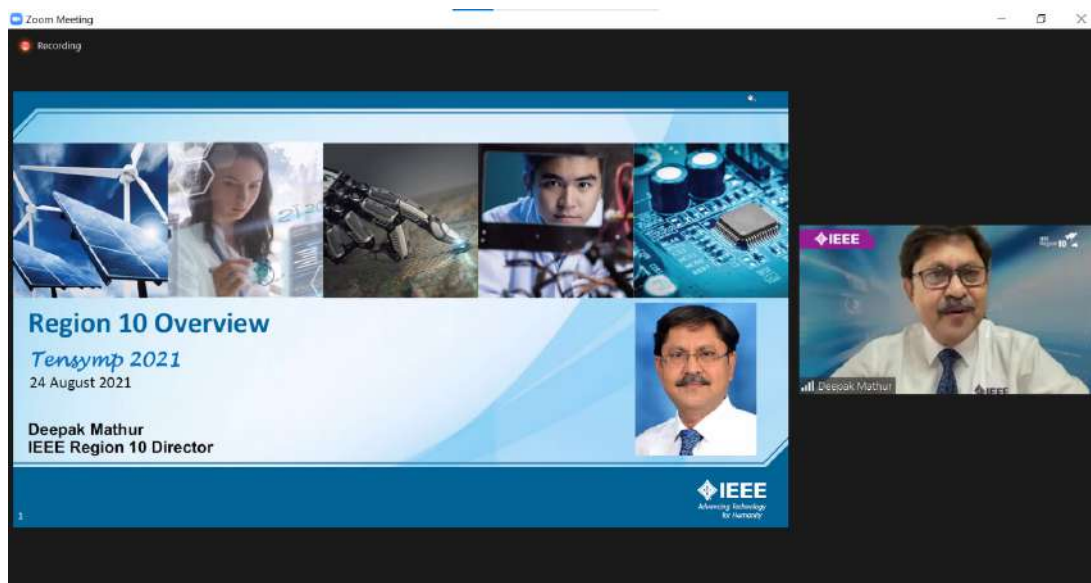
In the invited and special sessions, state-of-theart technologies were introduced in blockchain, 6G, intelligent devices, MIMO, MAC, and AI-based on hardware. During the plenary session, Mr. Deepak Mathur shared with the audience an overview of IEEE Region 10. In addition, the conference also had the pleasure to have Duckhyun Chang, Executive Vice President of Sensor Business at Samsung Electronics, share with the participants the 'Image Sensor Journey to the human Eye and Beyond'. Woohyeon Cheong, the founder of the Seoul Ethereum meetup and CEO of Atomrigs Consulting, Inc and Acecom, Inc., also presented at this conference on the theme of 'Wallet War for DApps: The Protest of Decentralized Technologies Against Centralized Governance'. Their industry-focused talks had indeed enlightened the congregation from various parts of the world.

Most of the participants encountered stimulating intellectual deliberations and had an unforgettable three fruitful days in TENSYMP 2021. According to the chair and co-chair, TENSYMP 2021 was a great success due to the enthusiastic support of all the outstanding organizing and technical program committee members.

IEEE R10Talk Webinar and IEEE Day Celebration

"IEEE in an Internet Dominated World" by Susan K. (Kathy) Land - IEEE President & CEO
Jennifer C. Dela Cruz, Chair for IEEE R10 SAC

R10Talk, on its 9th session, was graced by none other than the IEEE President & CEO, Susan Kathy Land. She talked about "IEEE in an Internet Dominated World" to over 150 participants via Webex, IEEE TV, and FB live in and around Region 10. Yes, the internet allowed us to educate, inform, reach out and share perception and knowledge beyond our recognition. The pandemic disruption is global, and when it strikes, members worldwide are perplexed and challenged. Therefore, President Land encouraged us to adhere to the mission and vision of IEEE and continue to promote diversity and inclusivity. She also suggested remaining steadfast in our support for using a standardized and peer-reviewed approach to support scientific research. Interesting Q&A revolves around the negative connotation of "cancel culture" and its impact, reassuring members of the proper alignment of the IEEE Code of Ethics.

R10 Director Deepak Mathur gave his welcome remarks and introduced our honorable speaker. The session was well participated by the R10 Executive Committee and the R10Talk team led by Dr. Zia Ahmed. R10 Director-Elect Prof. Lance Fung gave the vote of thanks and closing remarks highlighting another remarkable effort of the team in providing insightful webinars to R10 members. The participants were given a heads-up to the upcoming webinars this October and November. The R10 EXCOM joined an online celebration of the IEEE Day with the President after the webinar, which was also attended by R10 pride, our past IEEE President Toshio Fukuda. Past R10 Director Mr. Ramakrishna Kappagantu also joined the celebrations. The night was capped with fun and entertainment in commemoration of a successful IEEE R10Talk day!

The R10Talk team will consistently strive to be a source of relevant technical and non-technical webinars on topics of interest to members.

OTHER NEWS

IEEE R10 STEM Ambassador 2021

Lau Bee Theng, IEEE R10 Newsletter Editor

The IEEE STEM Ambassador Program was developed to recognize IEEE volunteers for their contributions to pre-university STEM education. Join us in congratulating the 2021 IEEE STEM Ambassadors from Region 10.

Aliza Aini Md Ralib	Muliady Muliady
Bakhtawar Nawaal	Mumtahina Islam Sukanya
Gayathri Manikutty	Nurul I. Sarkar
Graeme Gwilliam	P Susthitha Menon
Hugo G. Espinosa	Parkavi A
Kam Weng Tam	Rosminazuin Ab Rahim
Lau Bee Theng	Sathiabama T. Thirugnana
Lochan Jolly	Supavadee Aramvith
Mohd Hafiz Ismail	Takako Hashimoto
Mousiki Ka	Vijayalaxmi Sandeep Kumbhar

Below are some enlightening sharing of thoughts from the STEM Ambassadors on how they are helping IEEE empower the next generation of technology innovators through their efforts in providing STEM outreach in their local communities:

"*In an increasingly dynamic world, our nation's younger generations must be ready to bring skills and knowledge to encounter problems, make use of information and resources, and know-how to gather and evaluate data to make accurate and proper decisions. These are the skills that students develop in science, technology, engineering, and math, including electronics disciplines known as STEM. If we want a country/nation where our future leaders, generations, neighbors, and workers can understand and solve some of the complex challenges and problems of today and tomorrow, and meet the demands and requirements of the dynamic and evolving workplace, improving students' skills, content knowledge, and literacy in STEM fields is essential. We must also make sure that wherever the younger generation lives, they have the right to quality learning environments*.*"*
Vijayalaxmi Sandeep Kumbhar, India

"From teaching the native language to her school Principal in her kindergarten days to teaching college students now, her journey has been a pursuit of passion. A valedictorian in both her undergraduate and postgraduate classes, she took up her passion as a profession. The joy of beholding the sparkle in a student's eyes on learning a new concept is what drives her to teach even beyond the walls of her undergraduate classroom. She has reached out to local schools and NGOs to spread her love for STEM and encourage future generations to take science and technology as a career."

Mousiki Kar, India

"*Personal experience in educating my children to excel in national and international robotics competitions made me realize the value they gained from the aspects of knowledge, skills, and personalities. Therefore, since 2010 I have organized various workshops and competitions, emphasizing an attractive learning experience. Everything needs continuous and consistent effort, from activities that are only for a small region, then develop into large ones and are open to participants from abroad. Nothing makes me happier than seeing them keep on learning, fight in competitions, study STEM fields, then contribute to society through science and technology.*"

Mr. Muliady Muliady, Indonesia

"*I played an active role in community development through IEEE pre-university STEM educational activities in New Zealand. My STEM outreach events include leading exhibitors at the 2021 MOTAL STEM Fair for pre-college students, IEEE Workshops at local community schools in Auckland, and leading a STEM-TEC demonstration at AUT LIVE (Pre-COVID-19) program for pre-university students. This event was one of the most significant annual events that Auckland University of Technology (AUT) organized to bring 5000+ pre-university students on campus. The 'IEEE STEM Ambassador' title is a great honor for me; it will help me serve the community better by providing new ideas for pre-university STEM outreach events in NZ.*"

Nurul I Sarkar, New Zealand

"*Students' curiosity, excitement, enthusiasm, and engagement every time I deliver an outreach activity is my primary source of inspiration. I believe that continuous exposure to hands-on, interactive, and practical STEM-based activities can significantly impact pre-university students and spark their interest in pursuing careers in STEM. We live in a highly technological society, and engaging young minds in STEM is more important now than ever before. Many of the outreach activities I have been involved in the showcase the electronics discipline; knowing that my contributions could help engage school students into Electronic Engineering programs is highly rewarding and motivating.*"

Hugo G. Espinosa, Australia

As a result of over six years of promoting and presenting STEM Education material to hundreds of school teachers throughout NSW and ACT, Dr. Graame, a retired Chartered Professional Engineer and resident of St Patrick's Green in Kogarah, has been selected as an IEEE STEM Ambassador for 2021 by IEEE. He is one of over 40 appointed internationally for 2021 when it has been introduced. Graeme has contributed voluntary assistance to various groups and organizations in the community, Australia, and internationally for over 60 years, starting as a young Scout Leader at the 1st Kogarah Scout Group after he had completed his Queens Scout Award some years earlier.

Graeme Gwilliam, Australia

OTHER NEWS
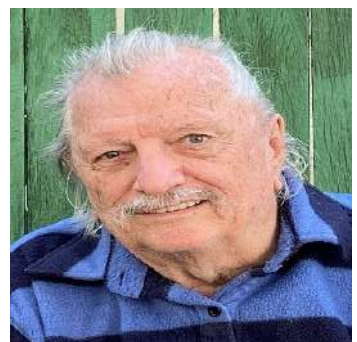
Prof. Kam Weng Tam, Professor of Faculty of Science and Technology and Director of Centre for Science and Engineering Promotion of the University of Macau, initiated the STEM activity titled "Wireless Technology Study Summer Camp" for local high school students. The program aims to raise their interest and awareness of wireless technology with interactive wireless experiments and games, educating students and also promoting the core values of IEEE and MTT-S with emphasis on RF/Microwave-related circuit and system realizations. The project is funded by the Macao SAR government's Science and Technology Development Fund (FDCT).

Kam Weng Tam, Ken, Macao

"*While organizing outreach activities for pre-university students on behalf of the IEEE BUET Student Branch, I have visited many schools and colleges as an instructor since my second year of undergrad. My job in these places was to teach Arduino to get the pre-university students familiarized with Robotics and Automation with the help of Embedded Systems. With awe, the participants would often observe how writing a few lines of code on the computer and loading them onto a little square box would make things happen like magic. The simplicity of this discovery and the curiosity firing up from this moment onwards is my true inspiration behind becoming a STEM Ambassador.*"

Mumtahina Islam Sukanya, Bangladesh

"*STEM initiatives by Universiti Teknologi Malaysia (UTM) in Kuala Lumpur and Selangor are dedicated to Urban Poor's (B40) in our vicinity. In view of the current situation; (1) decline in STEM interest, (2) the COVID19 pandemic that is clouding our world, we have decided to move forward and proactively transformed our STEM Mentor-Mentee Program into the online method. We have always organized many STEM programs, forums, Training of Teachers, Superhero Run, quizzes, competitions, and many more STEM activities. Hence, we felt that it is necessary for us, especially in our campus vicinity, to emphasize STEM education for nurturing future scientists, technologists, engineers, and educators.*"

Sathiabama T. Thirugnana, Malaysia

"*I reckon the need for students to develop their capabilities in Science, Technology, Engineering, and Math education to succeed in this new information-based and highly technological society and pursue STEM-related careers. With this IEEE STEM ambassadorship award, I am committed to continually raising interest and awareness in science, engineering, computing, and technology and striving to help primary to secondary students discover the engineer within them at the state, national, and international levels.*"

Lau Bee Theng, Malaysia

"*During the pandemic, most educational programs were conducted virtually using various online simulation tools to excite young minds to love Science and Electronics and engage in Science, Engineering, Technology and Mathematics (STEM) education through active learning. The chosen target group is the underprivileged Malaysian indigenous children, in primary and secondary schools. I believe STEM education can be the platform for these Malaysian indigenous children to inspire them through knowledge in science and electronics. Later, these young children and youth will return to their indigenous community and inspire their more youthful generations, improving their quality of life in the future. Through this effort, it is hoped that the global community will increasingly value IEEE as a catalyst in STEM literacy for vulnerable communities such as Malaysia indigenous children.*"

Aliza Aini Md Ralib Malaysia

OTHER NEWS

"As an IEEE STEM Ambassador for Region 10, my inspiration in conducting STEM outreach always goes to young children who are always curious to explore new things around them. This includes marginalized children who are often being left out from the mainstream educational and social opportunities. Through the presence of IEEE volunteers in STEM outreach among these disadvantaged children, I strongly believe that we can offer an infinite world of possibilities through STEM and indirectly deliver the message that they matter to us. We hope our small contribution through STEM outreach will create big impacts in their lives."

Rosminazuin Ab Rahim, Malaysia

"Leveraging technology through humanitarian and educational activities for underserved communities and local organizations is always my passion. By being good and sincerely doing good, I believe we can contribute, small or big, to improving the education and human condition worldwide. It is an honor for me to be selected as the IEEE STEM Ambassador; this motivates and inspires me to contribute my time, talent, and treasure for the benefit of humanity and in improving global conditions, in line with IEEE Mission and Vision. Quality education should be an equal opportunity for all, as outlined in the United Nations Sustainable Development Goal #4."

Mohd Hafiz Ismail, Malaysia

She received the IEEE Electron Devices Society (EDS) Educational Fund of USD10,000 for the STEM project "Electronics in Coding and Robotics", piloted in the Malaysia Section from April to December 2021. She is highly keen on imparting STEM awareness among pre-university students. Her project is included in TryEngineering STEM Portal and was piloted during the pandemic season, where the entire 6-week STEM project was conducted online by 3 EDS Chapters in Malaysia. A total of 50 participants comprising pre-university students, parents, teachers, and EDS members took part in the online events.

P. Susthitha Menon, Malaysia

Quarter Tech Talk Table (QT3) 4.0

Ramneek Kalra, IEEE Impact Creator & YP, and Pooja Sharma, IEEE YP

Day 1 (4th September 2021, 7 PM – 9 PM IST)

"Quarter Tech Talk Table 4.0 (QT4)" took place in the form of a Panel Discussion on the topic - "Role of Technology in Entrepreneurship Opportunities during COVID 19". The event was conducted in collaboration with "Universal Access to Technology" (Technical Committee) of IEEE SSIT and IEEE Industry Engagement Committee. The panelists were Helen Kim (VP of Wireless Technology and IP at MaxLinear Inc.), Simay Akar (CCO & Co-Founder of Innoses), and Kiran Kumar H S (Innovation & Product Strategy Consultant & Mentor Associated with Atal Innovation Mission, NITI Aayog, Govt. of India)

Discussed Points:

- Round 1 (Open Mic: Discussion on the Role of Technology in Entrepreneurship Opportunities during COVID 19): The entire panel discussion was surrounding STEM, entrepreneurship (market shifts, record breaks, and problem-solving methodologies), outreach in rural areas, the statistics of blockchain platforms during the COVID-19 times, and their impact on prestigious companies like Zomato, and others.
- Round 2 (Closed Floor): The closed floor discussion summed up the importance of each domain. Furthermore, development and establishment of the 5G network, new technologies, and implementing them with a market gap. The advancement of technology with agriculture was another raised topic. It concluded with the inevitable fact that IEEE plays a major role in focusing and helping students and professionals in STEM education and thereby indirectly aiding in a drastic growth in technology.
- Round 3 (Open Floor: Ask the Panelist): Open floor went with Q&A that was informative and worth seeking inputs from everyone.

OTHER NEWS

Day 2 (5th September 2021, 7:00 PM – 9 PM IST)
The 2nd day of QT4 took place in the form of a panel discussion on the topic "Role of Technology in Career Advancement during COVID-19". The panelists were Sinjini Sengupta (Founder - LIGHTHOUSE (Lighthouse.co.in), Author, TEDx Speaker, Distinguished Toastmaster), Dr. Shantha Mohan (Executive in Residence, Integrated Innovation Institute iLab at Carnegie Mellon University), Rohit Adhlakha (CXO, Advisor to Vector Center and Zscaler), and Sur Khurana (Wellness and Life Coach, Keynote Speaker & Founder of Co-Create with Universe).

Discussed Points:
- Round 1 (Open Mic: Discussion on the Role of Technology in Career Advancement during COVID 19): The whole panel discussion was surrounding schooling methods, the progress of studies, and career development goals. The technological advancement in schooling should be delivered to rural areas with some techniques. Moreover, it's been concluded that one should mold themselves to live with or without technology.
- Round 2 (Closed Floor): The closed floor discussion is curated as an act of providing awareness to individuals in the community, students should be trained in the technology. The speaker's perspective was that young minds should be exposed to digital skills that are available in the markets nowadays. The closed floor ended with an optimistic note.

If you missed attending 4.0 Edition, feel free to explore on IEEE TV Platform at:
https://ieeetv.ieee.org/video/role-of-technology-in-career-advancement-during-covid19-ieee-qt3-40

For more information, check details and register for the next Edition below at:
Website: https://attend.ieee.org/qt3/

Registration Link for next IEEE Quarter Tech Talk Table 5.0 happening tentatively in November 2021:
https://bit.ly/QT3Register

GUCON 2021

Rabindra Nath Shaw, Chair for IEEE GUCON 2021

The 4th IEEE International Conference on Computing, Power and Communication Technologies (GUCON 2021) was hosted by the University of Malaya, Kuala Lumpur, Malaysia with 100% financial sponsorship of IEEE Industry Applications Society, USA from 24th to 26th September 2021. GUCON 2021 is a non-profit conference and provides an opportunity to the practicing engineers, academicians and researchers to meet in a forum to discuss various issues and its future direction in the field of electrical, computer & electronics engineering and technologies. The conference aims to put together experts from the relevant areas to disseminate their knowledge and experience for the relevant future research scope. There were 12 tracks in the conference covering almost all areas of the aforementioned fields.

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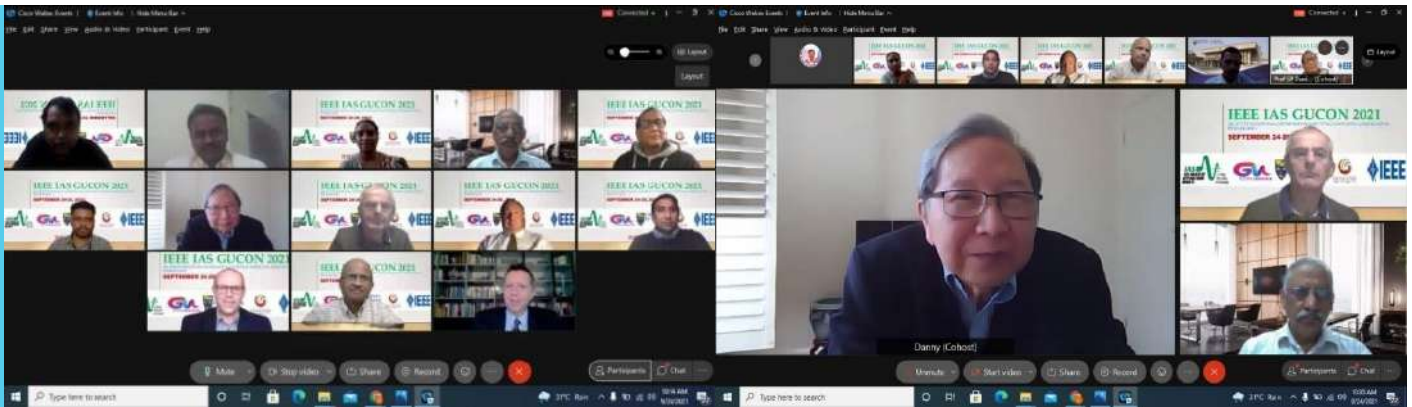
This 4th edition of GUCON received a massive response of 1386 papers from more than 37 countries. More than 500 reviewers from all over the world completed the review process of these papers. 248 best quality papers were accepted after the review process. The paper acceptance ratio is 17%. In this three-day mega event, 7 keynote sessions have been organized. The keynote speakers were all distinguished professors from all over the world (USA, Australia, UK, Italy, Canada, Estonia, Malaysia), including the Vice President of IEEE Computer Society, USA. The conference was organized virtually on an online WebEx platform adhering to the COVID-19 pandemic guidelines. All 248 accepted papers have been presented virtually in 35 technical sessions. Two session chairs were present in each of these 35 technical sessions.

The inaugural session of GUCON 2021 began with speeches of distinguished guest professors. The vote of thanks was proposed by Prof. Venkatesh Babu (Pro-Vice-Chancellor, Galgotias University, India). The conference commenced with two back to back keynote speeches on 'Evolving distribution grid' by Prof. Danny Sutanto (University of Wollongong, Australia) and 'Feasibility of 73 GHz and 140 GHz millimeter-wave technologies for fog radio access networks' by Prof. Kaharudin Bin Dimyati (Universiti Malaya, Malaysia). This was followed by concurrent paper presentation panels in 10 technical sessions. On the first day, 69 papers were presented with the participation of more than 200 authors.

The second day began with two keynote speeches on 'Technology and processes to reliably reduce societal harm in the social media industry' by Dr. Andre Oboler (Vice President MGA, IEEE Computer Society, USA) and 'A soft robotics approach to understand how the brain conditions the body to make real-time computation more efficient by Prof. Dr. Thrishantha Nanayakkara (Imperial College, UK). This was followed by concurrent paper presentation panels in 10 technical sessions. Overall, 67 papers were presented on the second day with the participation of more than 200 authors.

The third day started with 15 parallel technical sessions with 112 papers in total. At the end of the technical sessions, the following keynote speeches were delivered: 'Data security and privacy in emerging scenarios' by Prof. Pierangela Samarati, (Università degli Studi di Milano, Italy), and 'Role of power electronics and advanced machine learning techniques for smart battery' by Prof. Sheldon Williamson (Ontario Tech University, Canada). The keynote sessions were attended by a large number of students and researchers. GUCON 2021 concluded with the vote of thanks by the conference chair.

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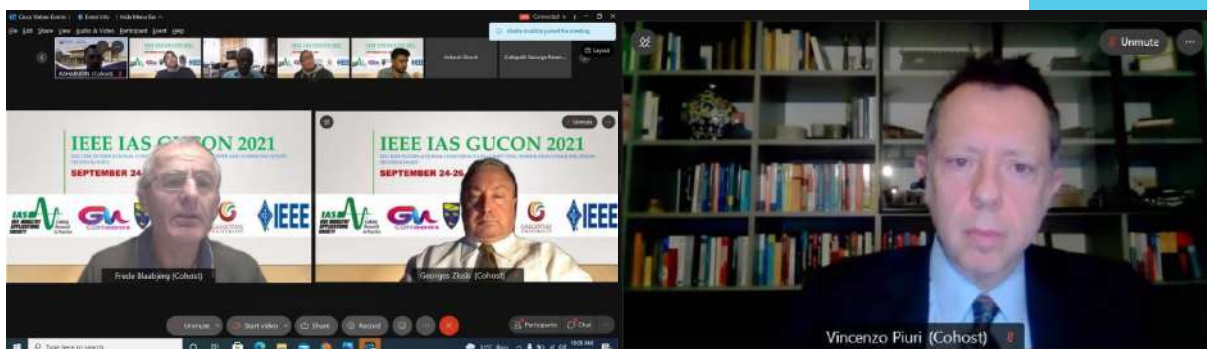
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- Latin America: https://ieee-collabratec.ieee.org/app/community/61/Latin-America-Technology-Network/activities
- North America: https://ieee-collabratec.ieee.org/app/community/58/North-America-Technology-Network/activities

OTHER NEWS

CONFERENCE CALL FOR PAPERS

2021 IEEE TENCON

TENCON 2021
Virtual and Physical

7-10 December 2021 | Auckland, New Zealand

Call for Paper Submissions & Special Session proposals

IEEE FUTURE DIRECTIONS

IEEE Future Directions Guiding Smarter, Cleaner, Secure, & Resilient Living

TENCON is a premier IEEE international technical conference which has been conducted in region 10, to bring exciting discoveries, knowledge & understanding together. TENCON 2021 has been themed inspired by the IEEE Future Directions platforms both graduated & ongoing. This year's TENCON is organized by IEEE NZ North Section, designed to be a blended event from Auckland, New Zealand. The conference will be held from 7-10 December 2021 in Auckland, New Zealand for the venue based physical attendees. The others will be joining virtually to hear & engage with the exciting & innovative programs that is being planned.

Some key highlights of this annual conference includes:

- Tutorial Sessions
- Keynote presentations from practice leaders in the field
- Presentation & poster sessions for idea sharing & discussion
- Students/Young Professionals Networking Forum
- Trade booths & themed panel sessions

Themes planned for TENCON 2021:

Hosting TENCON 2021 in Auckland (Virtual an in-person mode) with a focus on IEEE Future Directions will provide IEEE members and non-members access to the best knowledge, resources and opportunities in emerging technologies. It also attempts to address public fear and challenges faced by humanity across the world as innovative technology is introduced and rolled out. The theme of TENCON 20201 has been selected to give a strong international exposure along with local flavor. The technical tracks will align with the strong traditional technical themes of IEEE like signal processing, robotics, biomedical, communications, computers, power & energy, power electronics, software etc. along with new emergent and exciting IEEE Future Directions platforms.

CALL FOR PAPERS

IEEE New Zealand North Section

IEEE

IEEE Region 10

https://tencon2021.com/

IEEE Region 10 Humanitarian Technology Conference (R10HTC) 2022

10th IEEE Humanitarian Technology Conference – 2022

Theme - "Internet of Things (IoT) and Industry 4.0 – a world of engineering challenges"

(16-18 September 2022), Hyderabad

www.r10htc2022.org

IEEE R10 HTC (Conference id:54060) is a premier annual cross disciplinary conference that will bring together technologists, engineers, scientists, investors, representatives from NGOs, governments, academia, and industry. The conference will promote discussions and development of Electrical, Communication, Computing, Security and Disaster Relief areas to present results of recent advancements in technology in order to help improve the lives of the impoverished. It will have plenary talks, keynote addresses by reputed academicians, tutorials & workshops by domain experts, research paper presentations, events for Women in Engineering and Young Professionals. IEEE R10 HTC 2022, which is organized and hosted by IEEE Hyderabad Section, will be held in Hyderabad, 16-18 September 2022. The theme of the conference, "Internet of Things (IoT) and Industry 4.0 – a world of engineering challenges" is to draw special attention to the societal expectation on humanitarian technologies' ability to provide practical and lasting solutions.

Internation Conference On Energy Conservation And Efficiency 2022

IEEE REGION 10 NEWSLETTER

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