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9. CONFERENCE CALL FOR PAPERS
CALL FOR PAPERS – IEEE R10HTC 2022
Dear IEEE Colleagues,

Happy New Year!

2021 was no different from 2020. There were continued challenges with uncertainties, but we had lessons learned from 2020. IEEE and its members continued to be innovative and creative during this unprecedented challenging time. IEEE provides us lots of opportunities through its rich technical resources, events, and conferences but I found that our volunteers created many more opportunities for member engagement in a very innovative and creative way. We could expand our boundaries and most of the Region 10 events had global participation. That was great learning from this pandemic, and we could organize many meaningful member-centric virtual events with significant value adds. I appreciate the efforts of all members and volunteers who were positive, thoughtful, and innovative in their approach and converted challenges into opportunities.

The performance of the Region 10 Executive Committee was exemplary during 2021. It was very difficult to do all activities virtually, but all committee chairs showed great leadership, worked together as a team, followed a collaborative approach, and created value for our members through new programs. Their efforts are applaudable, consequently, we continue to grow. We are top among all regions on activities, member count, number of sections, and sub-sections.

Region 10 believes in setting up goals and direction to further the mission and vision of IEEE so that we remain committed to fostering technological innovation and excellence for the benefit of humanity. We decided in following the thrust areas for 2021-2022 and shall continue to work in the coming year with more rigor and passion and let our programs create value to address member recruitment and member retention.

- **Membership Activities:** Member Retention and Continuation of Students to Young Professionals
- **Technical Activities:** Section-Chapter Collaborative Programs, Conference Quality, Industry Engagements.
- **Professional Activities:** Entrepreneurship and Career Advancement Programs.

In 2022, while keeping the well-being of our members, we will try to be more innovative and creative to provide value-added programs to our members. We have plans to roll out some very ambitious R10-wide technical projects and events to provide an opportunity for learning and showcase technical knowledge and skills for our members. We shall also continue our focus on lifelong learning efforts, reaching local initiatives, and engaging local communities through our specially designed programs.

I’ll encourage you to be diversified and think beyond the boundaries of your own Student Branch, Chapter, Section, Region, and collaborate, and that will give you real learning and great opportunities. Once again, I thank you all for your contributions in making IEEE better and stronger and look forward to working with you to further the mission and vision of IEEE.

Wish you and your family a very happy new year with lots of happiness, health, peace, and joy.

Best regards,

Deepak Mathur
IEEE Region 10 Director
Message from IEEE Region 10 Newsletter Chair

Dear Region 10 Members,

Hope it is not too late to wish Happy New Year 2022 to everyone, and Happy Chinese New Year to those celebrating. It is my pleasure to welcome you to the very first edition of IEEE Region 10 Connect for 2022. This edition features a special report on TENCON2021 and R10HTC2021, two flagship conferences hosted by IEEE New Zealand North Section and IEEE Bangalore Section, respectively. As part of our growing multimedia content, we also have video interviews with the TENCON2021 General Chairs, which can be viewed at our newsletter website (https://newsletter.ieeer10.org/home_jan2022/interviews/).

Besides the special reports and the updates from various R10 committees, we have five more volunteers and five more organizational units featured in the Know Your R10 Volunteers and Know Your R10 Organizational Units respectively in this edition for your reading pleasure. In particular, do not miss the column on Don Sinnott, Life Fellow from the South Australia Section whose journey with IEEE began all the way back in 1966! This edition also features a montage of IEEE Day celebrations from various Sections across Region 10. Thank you to those Sections who shared pictures of their IEEE Day celebrations, be it virtual or physical celebrations. Activities and events reporting from various Sections, Affinity Groups, Student Branches, and other units and volunteers round up this newsletter issue.

To all our readers, be it from Region 10 or otherwise, I hope you enjoy this first newsletter edition of the year. My greatest appreciation to the newsletter team (Prashant, Tridibesh, Bee Theng, Redwan, Wathmini, Garima, Naila, Vaishali and Nabeel) for their hard work in producing another excellent newsletter. As always, 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.

Thank you and kind regards,

Mohammad Faizal Ahmad Fauzi
Chair, IEEE R10 Newsletter Committee

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<td>Nabeel Ahmed Masoodi</td>
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IEEE R10 Young Professionals (YP) Committee

Activities Supported by IEEE Region 10 Young Professionals Student-YP Joint Activity Fund – Round 2

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 within the Section level. It aims to improve student engagement with YPs and their activities, learn, gets 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. Five activities were awarded in the second round of the fund for 2021. Below is the summary of these winning activities as reported by the projects’ leads:

"Futura - Paths for a Better Tomorrow" by IEEE Young Professionals Gujarat Section
The activity was conducted virtually on the 8th, 15th, 22nd, and 29th of August 2021. The activity was organized in collaboration with IEEE Nirma University Student Branch. A total of over 653 attendees benefitted from the program. The event was designed to work as a guiding system for hundreds of students in getting a certain picture of their career in these times of uncertainty. As a result, all the participating students got insights into getting started in their career of choice. Furthermore, interactive sessions helped gain a deep understanding and knowledge of the interest domains and pushed them to learn and focus more on their interests.

"Envisioning a Great and Successful Career with IEEE" by IEEE Young Professionals Uttar Pradesh Section
The program consisted of several sessions held on 13th & 23rd August; 15th, 17th, 18th, 19th, 22nd, 25th, 26th & 30th September and 1st, 3rd, & 5th October 2021. A total of 646 participants attended the event. The activity was organized in collaboration with IEEE UP Section, IEEE Amity University Uttar Pradesh Lucknow Campus Student Branch, and IEEE BTKIT Student Branch Chapters, Dwarahat. The activities were planned in such a way that they would help young professionals to move and make their careers in the right direction. In addition, the panelist and speakers shared their knowledge and experiences with the audience, which included technical knowledge.
“Workshop on Career Development in Doctoral Course” by IEEE Young Professionals Kansai Section

The activity was conducted virtually on 11th September 2021, with a total attendance of 42 participants. The event was organized in collaboration with IEEE Sendai Section Young Professionals Affinity Group, IEEE Sapporo Section Young Professionals Affinity Group, IEEE Tokyo Section Young Professionals Affinity Group, IEEE Kansai Section Membership Development Committee, IEEE Student Branch at Kyoto University, IEEE Student Branch at Tohoku University, IEEE Student Branch at Ritsumeikan University, IEEE Circuits and Systems Society Kansai Chapter, IEEE Computer Society Kansai Chapter, and IEEE Kansai Section Educational Activities Committee. This online workshop aimed to motivate young Japanese students, primarily undergraduate or master courses, to advance toward doctoral courses.

“Coaching on Further Study After Graduation” by IEEE Young Professionals Karachi Section

The activity was held virtually on 29th August 2021, with a total attendance of 80 students. The event was organized in collaboration with IEEE Karachi Section, IEEE HIET Student Branch, IEEE NED Student Branch, IEEE PES NEDUET Student Branch, IEEE MUET SZAB Student Branch, IEEE PAF KIET Student Branch, and IEEE UIT Student Branch. The seminar was carried out to provide information to the students regarding their potentialities and gain experiences that will help them in making decisions on the best educational programs that will suit them and the required educational requirements for the various jobs.
IEEE REGION 10 CONNECT  JANUARY 2022

“GradeUp 2021” by IEEE Young Professionals Pune Section
The activity was held virtually on 3rd October 2021, with a total attendance of 46 participants. This event aimed to explore and explain the opportunities available after graduation and the benefits of being an IEEE member, which will help graduates shape their future with various technical and professional activities.

Second LMAG Meet 2021
The second LMAG meet was held on 18th September 2021 in virtual mode. 42 participants attended the meeting from 16 LMAGs & LMAC members. Besides LMAG officers, the meeting was also attended by Prof. Toshio Fukuda, Past IEEE President; Prof. Akinori Nishihara, Past R10 Director; Mr. Deepak Mathur, Region 10 Director and Dr. Suresh Nair, IEEE India Council Chair. The meeting was inaugurated by Mr. Deepak Mathur, with opening remarks by Prof. Akinori Nishihara.

Presentations were made on R10 Operation Manual, LMC Operation Manual, LMAG reimbursement system (based on SAP Concur software implemented from 3rd May 2021), Overview of MGA Awards and Recognition Program, LMC LMAG Achievement Award Procedure & Documentation, and R10 LM website. South Australia LMAG also made a presentation on radar’s window on the world. This was followed by presentations by every LMAG Chairs present. The closing remarks were given by Dr. Suresh Nair with a vote of thanks by Dr. H. L. Bajaj.

R10 Life Member (LM) Committee
Rajendra K. Asthana, Chair for R10 Life Member Committee

REGION 10 UPDATES
Third LMAG Meet 2021
The third LMAG meeting was held on 20th November 2021 in virtual Mode, with ten LMAG Chairs participating. During the meeting, LMAG Chairs reviewed their 2021 activities and fund plans and presented their current status. LMAG Chairs were briefed about AG probation and dissolution criteria and requested to avoid such a scenario for their LMAGs. The meeting also discussed the 2022 plan and incoming Chair, Dr. H L Bajaj proposed a vote of thanks.

Fourth LMAC Meet 2021
The fourth LMAC meeting was held on 5th December 2021 and was attended by all 8 LMAC members and Region 10 Director, Mr. Deepak Mathur. Host Ritvik Bansal welcomed all the participants. Mr. Deepak Mathur then talked about the LM activities of R10 and inaugurated the meeting by appreciating the participants and their enthusiasm. Participants deliberated and finalized the plan for 2022 and added some new activities such as the LMAG Anniversary celebrations on the completion of 5, 10 and 20 years of LMAG formation. Dr. Harbans Bajaj thanked the Director and each and every member present for their participation and valuable suggestions.

Other Updates
- New LMAG at Queensland, Australia was approved on 23rd September 2021 with John Gough as Chair. This is the 5th LMAG formed during the year.
- LMAG Tokyo organised an award ceremony physically on 10th December 2021 in Tokyo. The event was attended by IEEE LMC Chair, Mr. T Scott Atkinson, Region 10 Director, Mr. Deepak Mathur and R10 LMC Chair Mr. Rajendra Asthana, besides several LMAG Chairs from Region 10.
- Delhi Section organised a special face-to-face meeting on 2nd December 2021 attended by past Region 10 Director, Dr. Harbans L. Bajaj (1997-98) and present Region 10 Director, Mr. Deepak Mathur.
IEEE Region 10 Conference (TENCON) 2021
7th – 10th December 2021, Auckland, New Zealand
BeeTheng Lau and Tridibesh Nag, Editors for the Region 10 Newsletter Committee

EEE Region 10 is the powerhouse region of IEEE with more than 140,000 members, 58 Sections, 35 Subsections, and six Councils. TENCON conference started in 1980 in Hong Kong and since 1991 has emerged as the flagship event of IEEE Region 10. With the theme Smarter, Cleaner, Secure, & Resilient Living, the 33rd IEEE Region 10 International Conference, TENCON 2021, was successfully held from 7th to 10th December 2021. IEEE New Zealand North Section hosted it in Auckland (for the venue-based physical attendees) while others engaged the planned exciting and innovative programs virtually.

TENCON 2021 was initially planned to be held in blended mode, but due to the new variant of the virus, it was changed to a fully virtual event with a very interactive and new Whova platform. The adoption of the Whova platform has enriched the participants’ virtual conference experience, allowing them to engage with organizers, presenters, and other participants seamlessly, from sessions to Q&A, live presentations to networking with experts and peers. Many participants highly complimented this new technology provided in this IEEE flagship conference which truly demonstrated IEEE’s leadership in organizing world-class conferences.

The conference gathered reputed researchers and industry experts and presented various keynote speeches, special sessions, invited sessions, and regular parallel sessions focusing on the following themes:

- Low-Carbon Energy Future
- Future of Industrial Automation & Smart Manufacturing
- Future of Space Technologies
- Future of Work in the World of Automation
- Smart Cities & Technologies
- Future of Food, Nutrition, & Health
- Community Spirit
- Future of Learning & Computing
- Other Topics
- IEEE Societies Based
The conference commenced on Tuesday, 7th December 2021. Prof. Lance Fung, R10 Director-Elect 2021-2022, welcomed all participants to the conference and congratulated the organizers and volunteers for successfully hosting this conference and giving an insight into the power of IEEE.

Industry Track Session followed these opening remarks. The first session under this track was chaired by Sanjay Kar Chowdhury, Chair for IEEE Region 10 Industry Relations Committee. This session was on 5G Network and Security-Challenges and Opportunities by Prof. Ashutosh Dutta, 5G Chief, Johns Hopkins University Applied Physics Laboratory.

The next session was a panel discussion on Academia-Industry Engagement moderated by Parkash Lohana, IEEE R10 Professional Activities Chair. The panelists were Dr. Sudeendra Koushik, Innovation Director and Head of CampX of Volvo Group India Private Ltd, India; Prof. Dr. Zubair A. Shaikh, President, Mohammad Ali Jinnah University, Pakistan; Dr. Paulina Chan, Principal & CEO, Global Mutual Innovation Consortium, Hong Kong; Dr. Alpha Agape Gopalai, Senior Lecturer, Monash University, Malaysia; and Dr. Jane O'Dwyer, Chief Executive Officer, Cooperative Research Australia. They discussed the challenges and opportunities by which Universities and Industries can collaborate in three areas: teaching, research, and entrepreneurship.

Next was the WIE Track Session chaired by Emi Yano, IEEE Region 10 Women in Engineering Committee Chair. The session was on Journey Beyond the Horizon - The Success Story of Dr. Piyapan Hannarkin, MD of Operational Energy Group Ltd, an incredible woman leader (https://www.youtube.com/watch?v=HrzphFLq5Wg).

It was followed by Young Professional Track Session chaired by Dr. Saaveethya Sivakumar, IEEE Region 10 Young Professionals Committee Chair. The first keynote of this session was on Effective Scientific Writing and Publishing by Prof. Debatosh Guha, IEEE Fellow, and Professor in the Institute of Radio Physics and Electronics at the Rajabazar Science College, University of Calcutta. The second keynote was on A Systematic Guide on Planning and Writing Grant Proposals by Prof. Nowshad Amin from College of Engineering, Universiti Tenaga Nasional, Malaysia.

The second day, 8th December 2021 saw the official opening ceremony. General Chair Prof. Nirmal Nair welcomed all participants to the conference and mentioned that this conference is not about the past but the future technology. The opening ceremony proceeded with the keynote address by IEEE Region 10 Director, Mr. Deepak Mathur. Despite several obstacles, he congratulated the organizing committee members for successfully hosting TENCON 2021. In his presentation, he gave a very thorough presentation and overview of IEEE Region 10.

Prof. Tek Tjing Lie, General Co-Chair of TENCON 2021, then presented the technical report, where he informed that the conference received over 250 papers submissions from 16 countries. After careful review,
180 papers were accepted for presentation (72% acceptance rate) at the conference. The highest number of submissions comes from India, which made up 29% of the total submission, followed by Australia (19%) and New Zealand (18%).

The opening ceremony was followed by the first plenary discussion on Cyber Hygiene and Security; the panelists were Abhinav Chopra, Office of Helen Clark; Peter Jackson, Engineering Manager – Cyber SGS ECL; and Bhojraj Parmar, Head of Consulting - New Zealand Mandiant. The session was moderated by Kate Murphy, TENCON 2021 Industry Chair.

There were 18 high-quality technical sessions divided into two parallel sessions, with 7 to 12 papers presented in each session covering ten different themes for three days. All presentations were pre-recorded to ensure smooth delivery of the contents; the presenters then took up the questions live following their played-back presentation. Attendees had a chance to hear the interactive, lively, and technical pitches and discussions from researchers, social entrepreneurs, innovators, engineers, professionals, and technology leaders from more than 20 Asia-pacific countries. Some of the sessions are shared below:

- TENCON 2021 IEEE & Future of 5G Technology [Link]
- TENCON 2021 Journey beyond the horizon - Success Story of An Incredible Woman Leader [Link]
- TENCON 2021 Effective Scientific Writing and Publishing [Link]
- TENCON 2021 Opening and Plenary [Link]
- TENCON 2021 Future Architecture of the Network (FAN) Workshop [Link]
- TENCON 2021 Robotic Workshop [Link]
- TENCON 2021 Awards and Closing [Link]
IEEE TENCON 2021 Robot Design Competition

Dulsha Kularatna-Abeywardana, Secretary for IEEE New Zealand North Section WIE

IEEE TENCON 2021 Robot Design Competition was organized in conjunction with IEEE Region 10 as part of the IEEE TENCON 2021 conference held in Auckland, New Zealand in December 2021. There were three categories, junior school, senior school, and University which attracted fantastic, creative, and highly technically advanced entries. The junior and senior school entries were all from local primary and high school students in Auckland, New Zealand. The University category attracted entries from all over the region including India, Pakistan, Australia, Malaysia, and New Zealand. This competition was organized by Dr. Ho Seok Ahn from the University of Auckland, with Prof. Jennifer Dela Cruz from Mapua Institute of Technology coordinating the entries for IEEE Region 10. Special thanks also go to the IEEE Region 10 Vice-Chair Dr. Zia Ahmed and the General Chair for IEEE TENCON 2021 Dr. Nirmal Nair for facilitating this competition. These entries were judged by Dr. Dulsha Kularatna-Abeywardana, Dr. Mahla Nejati, and Mr. Jongyoon Lim from the University of Auckland, Dr. Arslan Kiyani from Dell Technologies, and Dr. Inkyu Sa from CSIRO’s Data 61. Gold, silver, and bronze medals were awarded along with technical awards and the major prize winners in each category were –

Junior school:
- **Gold** - Ella Jihyeon Ahn (Forrest Hill Primary School), Claire Yoonseo Lee (Takapuna Primary School), Zoe Seohyeon Ahn (Forrest Hill Primary School)
- **Silver** - Sejong Park (Pinehurst School), Hyungyoon Kevin Noh (Remuera Intermediate School), Siyun Moon (Murrays Bay Intermediate School)
- **Bronze** - Yihan Lu (Browns Bay School), Zidong Oscar Zhao (Pinehurst School), Joshua Zhang (Greenhithe School)

Senior school:
- **Gold** - Peter Cheong (Kings College), Tony Hyunseo Lee (Kristin School), Young Min Ko (Auckland Grammar School)
- **Silver** - Daniel Sung Hyun Shin (Kings College), Joey Sehan Back (Rangitoto College)
- **Bronze** - Eric Qin (Kristin School), Jonathan Gong (Kristin School), Michael Yang (Saint Kentigern College)

University category:
- **Gold** – Muhammad Rabani Mohd Romlay from International Islamic University, Malaysia (IEEE Kuala Lumpur Subsection), for “RoVision”
- **Silver** - Che-Ming Chang, Gal Gorjup from the University of Auckland, NZ (IEEE NZ North Section), for “ARoA platform”
- **Bronze** - Anup Sharma from the Dibrugarh University, India (IEEE Kharagpur Section) for “COVIDRAKSHAK: Autonomous Room Sanitizing Bot”

**Use Case-Movie**

Winners in the junior school category

**RoVision Hardware Construction**

RoVision – University category winning entry by Muhammad Rabani Mohd Romlay from IEEE Kuala Lumpur Subsection

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With the theme "Reverse Innovation for Humanitarian Technology Solutions using STEM Science, Technology, Engineering, and Management", the IEEE Region 10 Humanitarian Technology Conference 2021 was successfully hosted by the IEEE Bangalore Section from 30th September to 2nd October 2021. Due to the ongoing pandemic, the conference was conducted in hybrid mode, where the inauguration ceremony was held physically while authors presented their papers in online/virtual mode. The conference is made up of a rich variety of events including keynote and invited speeches, regular and special sessions, focused discussions, and special events. Prior to the official conference opening, HTA Day Celebrations and the R10 Chapter-Section Event were also held in conjunction with the conference.

The inauguration ceremony was held on 30th September 2021, 6 PM Indian Standard Time (IST) at the Chancery Pavilion Hotel with the presence of Region 10 Director, Deepak Mathur. The General Chair, Bindhu Madhava welcomed all participants and expressed his utmost appreciation to Mr. Deepak for attending the conference physically. The Organizing Chair, Abhishek Appaji then outlined the 3-day conference program to the audience. He also briefed on the history of the conference bidding by the Section. The Technical Program Chair, Chandrakanta Kumar presented the technical review statistics; the conference received a total of 272 paper submissions, with 89 papers eventually accepted for presentation across 24 parallel sessions. The conference continued with a virtual address by Sampath Kumar Veeraraghavan, Chair for IEEE Humanitarian Activities Committee (HAC), highlighting the importance of HAC and its initiatives. This is followed by an address by V.R. Lalithambika, Distinguished Scientist and Director of Directorate of Human Space Programme (DHSP), Indian Space Research Organization (ISRO), Bengaluru, India.

IEEE Region 10 Director, Deepak Mathur, then officially opened the 9th edition of R10HTC. In his speech, he recalled the history of the conference, which stems from several successful humanitarian projects in Region 10. He also announced the R10 HAC grants initiative, where projects are evaluated based on potential products, with assigned mentors for each approved project. Debabrata Das, Director, IIIT Bangalore, proposed a vote of thanks. The opening ceremony was rounded up by the Organizing Chair, Rajashekar S., followed by a photo session for those physically present at the venue.
The second day of the conference consisted of 5 keynote speeches delivered by prominent researchers in humanitarian technology, 10 parallel tracks (including 2 special WIE tracks), and a student projects presentation. In the morning keynote session, Prof. Anil K Gupta from Honey Bee Network delivered a talk on “Grassroots Innovation: Frugality, Circulatory, and Accessibility”, Dr. Manu Prakash from Stanford University talked on “Frugal Science” and Thulasiraj Ravilla from Aravind Eye Hospital shared his work on “Technologies Enabling Last-Mile Delivery of Eye Care”. The afternoon keynote session featured Shanti Raghavan from Enable India who discussed the topic of “Assistive Solutions and Their Impact in Inclusion of People with Disabilities”, followed by Samarth Deo, Chair of EPICS in IEEE who talked on “How is Hitachi Energy Using Reverse Innovation to its Advantage in the Power Industry?”.

44 oral presentations, divided into 8 parallel sessions, were presented on the first day of the conference. The student projects presentation consisted of a 3-minute presentation, 3-minute video, and 3-minute interaction with the students. Ten videos from all over Region 10 were shortlisted. The session was hosted by Raghavendra Prasad SG, with Dr. Dayaprasad Kulkarni acting as the judge. Day Two also featured special events such as the India Council track, industry demo session, focused discussion on collaborations between IEEE and NGOs, and IEEE YESIST presentations and demonstrations, among others.
The third and final day of the conference featured 14 parallel tracks (including special WIE, YP, and Student tracks) with 46 oral presentations, an industry demo and projects display, focused discussion on collaborations between IEEE and the government, and several invited talks. The final day also featured the Gandhi Jayanthi Celebrations by IEEE Bangalore Section. At 7.30 PM IST, the valedictory function and award ceremony were held. Dr. Chandrakanta and Dr. Ramakrishna announced the following best paper awards:

- **Track 2.** Biomedical Engineering for Good Health and Wellness - Shadman Sakib, Nowrin Yasmin, Ihtyaz Kader Tasawar, et. al., “Performance Analysis of Machine Learning Approaches in Diabetes Prediction”
- **Track 3.** Agriculture and Food Security - Christian Hail R Mendigoria; Ronnie Il S Concepcion; Elmer P. Dadios et. al., “Seed Architectural Phenotypes Prediction and Variety Classification of Dry Beans (Phaseolus Vulgaris) Using Machine Learning Algorithms”
- **Track 7.** Sustainable Villages/Cities and Communities / Traffic systems - Maria Gemel B Palconit; Ronnie Il S Concepcion; Jonnel Alejandrino, et. al. "Comparative ANFIS Models for Stochastic On-road Vehicle CO2 Emission using Grid Partitioning, Subtractive, and Fuzzy C-means Clustering"

**Overall Best Paper Award**

- 2. Neelabhro Roy, Sauranil Debarshi, P.B. Sujit, "Net: A WMN based Framework using UAVs and Ground Nodes for Post-Disaster Management"

The organizing team from the Bangalore Section, no doubt deserves special appreciation for a well-organized hybrid conference!
R10 Volunteer – Karu Essele [New South Wales Section]

2021 R10 Outstanding Volunteer

Distinguished Professor Karu Esselle, FRSN, FIEEE, FIEAust, has contributed to IEEE over 25 years in numerous roles from Society level to Student Branch level. During his leadership as the Chair of IEEE New South Wales (NSW) Section, the Section was awarded both Gold and Silver Medals. In 2019, he served as one of the five members who successfully bid to make the Parkes Radio Telescope the first-ever IEEE Milestone in Australia. Karu supported and mentored a large number of young IEEE NSW leaders. His mentees also have contributed a lot to IEEE at various levels, chaired many IEEE committees, and have been awarded many IEEE awards. Dr. Naila Mukhtar is a good example who is familiar to IEEE members in R10.

Karu is the Distinguished Professor in Electromagnetic and Antenna Engineering at the University of Technology Sydney and is a world leader in this field. The global impact of his research is reflected not only in his h-index (53) but also in a large collection of research excellence awards he received. Among the most recent is the most prestigious Defence Connect Excellence Award at 2021 Australian Defence Industry Awards – the first resident of NSW to receive this award; 2021 Academic of the Year in the same - the first academic in the state of New South Wales to receive this annual award; Finalist for the 2021 Australian national Eureka Prize for Outstanding Mentor of Young Researchers; Finalist and Runner-up to the same national prize in 2020, and Australian national Research Field Leader in two distinct research fields of Microelectronics and Electromagnetism in 2019 The Australian Special Report on Research. Karu is a Fellow of IEEE, Royal Society of NSW, and Engineers Australia.

Considering his achievements in IEEE leadership positions, Karu was selected to chair the prestigious Distinguished Lecturer (DL) Program of the IEEE Antennas & Propagation Society (AP-S) 2018-2020. He has brought innovative ideas and provided leadership to make significant changes to the program. He made it mandatory for each distinguished lecturer to give at least three lectures in developing countries, strongly benefiting Region 10. He established a new distinguished lecturer category in entrepreneurship and appointed the first three DLs in this category. He led an overhaul of the travel funding policy so that all IEEE AP-S Chapters and Student Branch Chapters anywhere in the world have equal access to all distinguished lecturers.

Karu formed the multi-award-winning Macquarie University IEEE Student Branch and provided leadership as a counselor. In his capacity as the Chair of the IEEE NSW
Antennas & Propagation (AP)/Microwave Theory & Techniques (MTT) Chapter, Karu arranged IEEE Distinguished Lecturers to visit Australian chapters. When Karu himself was an IEEE AP-S Distinguished Lecturer, he gave 23 distinguished lectures in both developing and developed countries and 12 of them were in Region 10. He is the first Australian AP Distinguished Lecturer in almost two decades, the second Australian AP DL ever, and believed to be the third Region-10 AP DL ever.

Karu provided leadership to many IEEE conferences and has given plenary/keynote speeches. Karu has served or is serving several society committees including IEEE AP-S Administrative Committee 2015-20; Field Awards; MGA; SIGHT; New Technology Directions; Promoting Equality; and Diversity, Equity, and Inclusion. He has also served three IEEE journals as Associate Editor (Transactions on Antennas and Propagation, Access and Antennas & Propagation Magazine), and MTT Society Technical Committee-28. Karu was awarded Outstanding Branch Counsellor Award (by IEEE headquarters) and the 2020 IEEE NSW Outstanding Volunteer Award.

R10 WIE Volunteer – Ray Hua Horng [Taipei Section]

Ray Hua Horng is the Distinguished Professor of the Institute of Electronics in National Yang-Ming Chiao Tung University. She became an IEEE member in 2007, then a Senior Member in 2011, and got the Fellow position in 2015. In 2007, Prof. Horng was awarded the 2007 IEEE Region 10 Academia-Industry Partnership Award. She has been actively contributing as an IEEE volunteer since 2011 when she was elected to the executive committee of the IEEE Taipei Section Photonic Society Chapter. After serving in the Executive Committee in various positions, she was elected as Treasurer in 2011 and 2012 and became Chapter Chair in 2013 and 2014. In 2021, Prof. Horng served as the editorial board member in IEEE EDL and also as the Elected Board of Governors members of Photonics Society.

Since 2019, Prof. Horng has organized the event Women in Optics (WIO) every year. Prof. Horng is the promoter of Women in Optics (WIO) of the Taiwan Photonics Society (TPS). The objectives are as follows:

- Promote personal and professional growth for women through community building, networking opportunities.
- Offer a platform to share the experience and ideas for women.
- Offer a platform to release pressure.
- Encourage young women to choose optics as a career.

The meeting has a parallel session for kids, “Photonic Children Care”. In this parallel session, children can learn some optics knowledge and also let their mother not worry about them and focus on joining the meeting in WIO. In 2020, "Women in Optics & Engineer @ Taiwan" was held in Taiwan on 5th December 2020. It is the first time Women in Optics & Engineers events were combined. The meeting of Women in Optics & Women in Engineering (WIO & WIE) was successful in 2020 despite the COVID-19 pandemic situation. The topic of 2020 is the wave-particle duality: “Light is a wave as well as a particle. WIO/WIE are professionals and moms/wives, just like light. The balance between work and family is a struggle.”

Prof. Horng has also been involved with international activity. In 2018, she was invited to attend the WIO in Korea to share her research and talk about the experiences of female scholars in the workplace. In 2019, she was invited to be the Distinguished Lecturer of SRM Institute of Science and Technology University in India. Prof. Horng shares her research and shares her experience on how to become an international society member and its importance during the student stage. In 2021, she was invited to be the Distinguished...
Prof. Horng is an excellent leader. She has taught young students how to become professional researchers and engineers. She believes that it is important to let the female students know how to utilize the resources in IEEE and let them know who can support them if it is necessary. Prof. Horng has not only shared her professional research. She has also introduced the activity of WIO/WIE in Taiwan. Based on the above contributions, Prof. Horng was awarded the 2021 R10 WIE Outstanding Volunteer Award.

R10 YP Volunteer – Christian Enoval [Republic of Philippines Section]

2021 R10 YP Outstanding Volunteer in Industry

Christian Enoval is an IEEE Senior Member and became an active IEEE volunteer in 2016, where he participated in different activities of his local chapter. With his dedication as a young engineer, he founded the IEEE Young Professionals Philippines Affinity Group in 2018 and was then elected as its Chair. Because of his leadership abilities, he was elected as the Public Relations Officer and Society Committee Chair of IEEE Republic of Philippines Section in 2019, while continuing to serve as YP chair. Since then, he has spearheaded many impactful and valuable activities for the IEEE’s young members.

As enabling activity to foster interaction between young professionals and student members and for enhancing student to young professional transitions, Christian organized the first-ever Student Transition and Elevation Partnership (STEP) in 2019 in partnership with IEEE Mapua University Student Branch. The event aimed to provide a dynamic program for facilitating the transition from IEEE Student Members to Young Professionals by introducing the opportunities and benefits of IEEE membership. Despite the pandemic in 2020 and 2021, he led the conduct of the 2nd and 3rd STEP virtually, which makes it an annual activity of the OU.

Another major event that Christian led was the Virtual Kapihan (Coffee Break) 2020 which gathered all IEEE members from both industry and academia under the IEEE Philippines Section for meetup and networking as part of IEEE Day Celebration and was graced by then Director-Elect Deepak Mathur. As part of membership development, he initiated the conduct of the first-ever IEEE Senior Membership Elevation Workshop in 2021 under the IEEE Republic of Philippines.

Moreover, his volunteering has also reached the regional level when he was invited as a guest speaker during the IEEE Young Professionals Meet 2020 organized by IEEE YP Bangladesh, SYWL Virtual Congress 2020 (a flagship activity of IEEE Region 10) under the YP track and during the IEEE Sparklers Summit 2021 organized by R10 YP. He also served as a distinguished instructor during the Career and Leadership Aid Program (CLAP) 2021 organized by IEEE R10 YP. Besides these, Christian Enoval was appointed as the
Training and Webinar Coordinator of IEEE R10 Student Activities Committee (SAC) in 2021. He spearheaded different activities beneficial to student members of the IEEE R10 such as the Student Branch Chairs and Advisers Summit 2021, SAC Chairs and Section Student Representatives’ Meetup 2021, and Student Membership Development Summit 2021.

In 2019, 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. Then in 2021, he received the Outstanding Volunteer Award in Industry from IEEE R10 Young Professionals for his exemplary volunteering involvements as a young professional.

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 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.) handling network concerns of its global enterprise customers. He is also an Associate Professorial Lecturer under the Electronics Engineering Department of the Polytechnic University of the Philippines since 2015.

R10 Student Volunteer – Gaurav S Sonawane
[Pune Section]

2021 R10 Special Recognition to SAC Volunteers

Gaurav Sonawane is a student at the Indian Institute of Management (IIM), Sirmaur, India. He holds an engineering degree in Electronics and Telecommunication from the Institute of Information Technology, Pune (Autonomous under UGC). He also has an Indian Patent in an interdisciplinary field and is a passionate innovator and leader. This year, Gaurav got a special mention as the R10 SAC Outstanding Volunteer Award from the IEEE R10 Director for his outstanding contribution and services for Student Activities Committee programs and the IEEE Pune Section.

In his tenure as Section Student Representative at IEEE Pune Section, he conducted new initiatives such as Pune Congress and demonstrated administrative abilities, leadership skills, and commitment for the technical development of engineers and students at large. He was instrumental in all the IEEE HAC projects and activities at IEEE Pune Section. He had extended his significant support in the IEEE foundation activities under the Special Interest Group for Affordable Agriculture. His key projects are automated mushroom farming, solar plant implementation in rural areas, automation of age-old water irrigation systems, and UAVs for precise agriculture. He also received the IEEE India Council Outstanding Student Award 2019.

KNOW YOUR R10 VOLUNTEERS
He has had an extraordinary journey from becoming the Chairman at the AISSMS IOIT Student Branch to R10 Young Professional core team member in the last four years. In 2019, he secured 2nd position at the International Project Competition at Stamford University, Hua-Hin Campus, Thailand, for the project titled "Non-hazardous Sanitary Pad Decomposition System." According to him, working closely with the top industrialists, academicians, and researchers at national and international levels gives him a birds-eye view of tackling the challenges. IEEE is now a second home for him and has shaped his personality to what it is today.

Gaurav is continuously moving ahead and is open to collaborating for a better tomorrow with the mission of advancing technology for humanity. IEEE Asia Pacific (R10) wishes him the best for all his future endeavors.

Contact: gauravsonawane712@gmail.com

R10 Life Member – Don Sinnott, LFIEEE [South Australia Section]

Don’s journey with IEEE has been a long one, beginning in 1966 when, as a graduate student at Melbourne University, he ‘shared’ an IEEE membership with a similarly impoverished fellow student. His friend took out IEEE and Microwave Theory and Techniques memberships, and Don reimbursed him 50% of the cost. They both read the journals as they arrived and, at the end of their graduate courses, divided up the copies for retention according to their interests.

Once he had a job, Don subscribed to IEEE personally, and to the Proceedings, MTT Transactions and, subsequently, Transactions on Antennas and Propagation and Airborne and Electronic Systems. As well as reading about others’ research, he was able to report his own and from 1968 began submitting papers and letters to the transactions and was also able to present at international IEEE conferences.

At that time, there was no local IEEE Section in South Australia and it was hard to find and connect with an Australian peer group in Don’s area of research. There was an Australian professional body, the Institution of Radio and Electronics Engineers, that had some local meetings, held a bi-annual national conference, and published a journal but, with a necessarily restricted membership base, its interests were spread thinly over the breadth of radio and electronic engineering. IEEE remained as the best opportunity to publish in high-quality peer-reviewed journals that allowed Don to tap into a world-wide research community.
At that point in his career, Don was a user of IEEE services but, apart from publishing in its journals, was not giving back significantly. This changed in the mid-1980s when frustrated that a significant group of IEEE members in South Australia had no local IEEE forum, he pressed to establish a local Section. It was a struggle to attract 50 signatures for the petition to establish a Section but it was duly chartered in 1985 and Don became the inaugural Chairman of the South Australia Section of IEEE in 1986.

So far so good, but the Section had minimal funds (just an establishment grant). The breakthrough came when Don was able to persuade a visiting IEEE Distinguished Lecturer to give a two-day course on the radar. The Section charged a modest participation fee and banked the surplus. The Section then reinvested its funds in a series of highly successful conferences over succeeding years, in fields including signal processing, microwaves, control, and radar. Don served a two-year term as Section Chair and remained on the committee for a decade, including a term as Australia Council Chair (1990). He also served on the organizing committee for four IEEE International ‘Radar 20xx’ conferences (General Chair for Radar 2003).

Don is currently on the South Australia Section committee where he represents the Life Members Affinity Group (LMAG), which he currently chairs, and is a Member of the Region 10 Life Members Committee. Now in retirement, he continues to contribute to IEEE through LMAG activity and by serving from time to time on IEEE award committees. Don’s IEEE involvement has run for 55 years and is still going!
3. KNOW YOUR R10 ORGANIZATIONAL UNITS

R10 Large Section - IEEE Kolkata Section

Sushmita Mitra, Chair for IEEE Kolkata Section

Way back in 1971, members of IEEE over the entire Eastern and North Eastern region of India got together to form the Eastern Regional Sub-Section of IEEE in India. After the formation of the India Council, the Eastern Regional Sub-Section was given the name of Calcutta Sub-Section, under the Delhi Section of IEEE, India. The Calcutta Sub-Section was raised to the status of a full section on 28th September 1978. Over the years, activities of the IEEE Kolkata Section increased manifold and spread through many cities and state capitals under its jurisdiction. Several Technical Society Chapters and many Student Branches have been formed. Currently, the Section has eighteen Chapters and four Affinity Groups. There are more than fifty Student Branches as of now and this figure is continually on the rise. The Section maintains a healthy student-to-member ratio while working closely and coherently with its chapters and affinity groups – not only in technical, education, and membership development activities but also in outreach programs. In December 2021, Kolkata Section achieved a membership milestone of 4247.

One key area of focus has been membership development, by improving the support networks and funding opportunities for Chapters and Student Branches. As students are a vital component of the Section’s future, substantial efforts have been made to provide leadership training, open communication channels, encourage greater responsibility, reward initiative & success, streamline processes, and provide clear pathways to funding. The Section is regularly organizing a “Dare to Dream” episode-based online program. This strives to bring forth the role of pioneering women in science and engineering, in order to inspire young girls to STEM.

A second major initiative has been to bridge the gap between industry and academia, through the enhancement of industry-academia engagement. The Section has been working on implementing initiatives that can bring experts from industries and renowned academic institutions. The greatest success on this front has been the formation of the Industry-Academia Dialogue Forum, with full support from the Industry relations committee of IEEE R10. Under this forum, two events have already been organized. This type of initiative has helped the members from both domains to network and collaborate under one umbrella.
The third area of focus has been on improving visibility and communications. The Section has streamlined e-notice communication, upgraded & enhanced its website, and has engaged with social media platforms like YouTube and Facebook (targeted at younger members). The Kolkata Section and its volunteers have won several awards and accolades. Some of the recent achievements include:

- 2021 IEEE Region 10 SPNIC has recognized Kolkata Section for their valuable inputs in response to SPNIC’s survey on another virtual conference.
- 2021 Recognition as one of the top three Sections achieving highest voting percentage, amongst 60 Sections in Region 10.
- 2021 and 2018 Outstanding Section Membership Recruitment and Retention Performance.

R10 Medium Section – IEEE New Zealand North Section

T. T. Lie, Chair for IEEE New Zealand North Section

IEEE New Zealand North (NZN) Section was established as the New Zealand Section in 1968. From 1979 onwards, various sections were formed in New Zealand, and in 1979, the New Zealand Section was renamed as the New Zealand North Section, and the New Zealand Council was formed. New Zealand’s City of Sails is Auckland, a popular destination for many IEEE conferences and events. In 2021, Auckland was the host city for the IEEE Region 10 Flagship Conference (TENCON). The NZN Section has not been significantly growing its membership and thus one of the priorities for the Section in the coming year is to focus on several targeted initiatives.

The Section will focus on four focus key areas in the coming year. The first area of focus is to revive the Student Branches which have been inactive for the last couple of years. The Section will put more effort to improve the number of student memberships, especially undergraduate students. The Section is fully committed to implementing initiatives that provide benefits and value for student members such as leadership training, open communication channels, encouraging greater responsibility, rewarding initiative and success, streamlining processes, and providing clear pathways to funding. One of the vital components for the future of Section is students, and the Section will put substantial effort to re-establish the Student Branches.

The second area of focus is to reform the Affinity groups such as WIE, SIGHT, and YP. The Section will provide more support and funding opportunities for Affinity groups.

The third area of focus is to grow the membership. The Section will form a membership development committee to work on the initiatives that provide the local value of membership.

The final area of focus is to encourage Chapter Chairs and Affinity Group Chairs to perform as expected. They have to lead by example by showing a full commitment to serve their respective members. The NZN Section has won several awards and accolades. Some of the recent achievements include:

- 2021 IEEE Region 10 WIE Special Fund - Round 2 – Anubha Kalra from Auckland University of Technology
- 2021 IEEE Region 10 Strategic Planning and New Initiatives Survey Award
- 2021 R10 Section Incentives - Activities from Nov 2020 to Oct 2021
- 2019 IEEE R10 Professional Activities Committee award on “Refresh and Relaunch of New Zealand North Consultant Database”
- 2019 Outstanding Section Membership Recruitment and Retention Performance
IEEE Shin-Etsu Section is the youngest of nine Sections in Japan and covers the regions of the Nagano and Niigata Prefectures. The name “Shin-Etsu” is a combination of portions of the old provincial names of Nagano and Niigata. Before the establishment of the IEEE Shin-Etsu Section in 2006, its members belonged to the Tokyo Section and for the past decade, this small Section has enjoyed a stable membership of 200 to 250 members and received the Outstanding Section Membership Recruitment Performance award in 2018.

When the Section celebrated its 10th anniversary with a commemorative workshop in 2017, the Section was able to have the past Chairs join to share their experiences with the beginnings of the Section and share their hopes for the future direction. Following the keynote by Prof. Hideki Hashimoto of Chuo University, participants were treated to presentations by a representative from the Young Professionals group as well as one of the recipients of the IEEE Shin-Etsu Session Young Researcher Presentation Award that year. As a small Section, events are often planned for and with members of mixed grades which makes for lively networking among the younger and older members. The Section appreciates the special support from the IEEE Japan Council, IEEE Japan Office, and extended support from the IEEE Singapore Office on the occasion of this anniversary.
The Section has one active chapter MAG-33 (Shin-Etsu Section) and in 2018, a group of students and staff of the three main technical national universities in Shin-Etsu (Shinshu University, Niigata University, and Nagaoka University of Technology) successfully petitioned to form the Shin-Etsu Joint Section Student Branch (SSB) which is run by officers selected from each of the campuses every year. The SSB board works closely with the Section, in planning events for its members, including its poster session events for bringing together students from all of the campuses. Although the women members of the Shin-Etsu Section still number in single digits, in 2020 the Section collaborated with the Tokyo Section to form the Tokyo/Shin-Etsu Joint Section Women in Engineering Affinity Group.

Kochi Subsection has traversed ten glorious years by advancing with one vision and a shared mission through persistent ideas, tireless efforts, and daily improvements. Looking back on this decade’s journey is quite enriching, rewarding, and gratifying. Thanks to the Section’s predecessors, the Subsection inherited a solid and sound foundation, which helped to achieve significant objectives. Kochi Subsection is the second Subsection of the Kerala Section covering members from five districts of Kerala State, namely Ernakulam, Idukki, Kottayam, Alleppey, and Thrissur. The Subsection got its formation approval from the IEEE MGA in July 2011. Since its inception, the Kochi Subsection has grown as the most significant Subsection globally regarding membership and activities. More than 4700 members and volunteers in the Kochi Subsection have worked tirelessly to develop and promote IEEE activities. Ms. Susan Kathy Land, the IEEE President, and CEO had commended the Section’s participation and passion in engineering, technology, and IEEE during the decennial celebrations. Mr. Deepak Mathur, R10 Director, said, “IEEE Kochi Subsection is not only contributing to the Kerala Section, but it has great footprints all across IEEE through its remarkable activities and dedicated volunteers.”

The Section has vibrant volunteers lined up to undertake challenging activities, be it professional events, student activities, Women in Engineering events, or humanitarian activities. The joy of volunteering is the wind behind the wings of the Kochi Subsection. The confidence gained through the successful conduct of 2012 INDICON, the IEEE India Council flagship event, boosted the activities in the Section. Kochi has always been a happening place. As Kerala’s commercial and technical capital, Kochi has the largest number of technical
organizations and IT companies in Kerala, with thousands of engineers, researchers, and technical students. Subsection, joining hands with sister societies like Computer Society of India, IETE & ACM, has conducted numerous activities benefiting the members. During these years, the number of events reported by the Kerala Section to IEEE HQ occasionally reached 1000 per year with significant contributions from Kochi Subsection and Kochi HUB.

The Subsection has always been keen on reaching out to society with the technological benefits for the betterment. The sixth installation of the flagship IEEE E-Scientia exhibit has been a significant milestone of the Section, demonstrating the enthusiasm and dedication of IEEE volunteers of Kochi. In July 2014, Dr. Moshe Kam (IEEE President 2011) inaugurated the E-Scientia facility in Cochin University of Science and Technology. As of today, half a million school students visited and enjoyed the exhibit. The role played by the Kochi Subsection in the implementation of Techno Unnati, the IEEE HAC-funded project of IEEE Kerala Section, is remarkable. Since its inception, the Subsection has conducted its flagship program, ‘Roadmap to Success’, guiding and motivating the engineering aspirants.

The success of IEEE TENSYMP 2017 and IEEE TENCON 2019 exemplifies the technical prowess of the Kerala Section and the organizing strength of the Kochi Subsection. With these strengths, Kochi is ready to take up major challenging roles of IEEE.

The Section was able to tame the hardships of the pandemic through several online programs, including R10 sponsored Panel On Conference Organizers, technical workshops, and a specially designed program for school kids to build computational skills. The role played by the Subsection by teaming up the Photonic Society members to form a society chapter is also exemplifying the leadership roles of the volunteers in the Section.

Kochi Subsection is proud to be part of IEEE, the world’s largest technical professional organization dedicated to advancing technology for the benefit of humanity. Looking forward to more opportunities to discover the ‘Joy of Volunteering’.

Links
1. https://www.youtube.com/watch?v=ES3UW3U3w5Y
2. https://www.youtube.com/watch?v=NvgZa4DnFol
Established in 2011 under the guidance of the IEEE Sri Lanka Section, the IEEE University of Colombo School of Computing (UCSC) Student Branch has been providing a platform for professional development for all undergraduates of UCSC. Going beyond technical exposure, interpersonal skills such as leadership, dedication, organization could also be developed and nurtured by engaging in the events organized by the Student Branch. Even during the global pandemic with new challenges and obstacles, the Student Branch was able to pull off another successful and eventful year.

MadHack 2021 was organized with the intention of giving undergraduates around the country an extensive introduction to the world of Mobile Application Development. It consisted of a workshop series that was designed to give all the participants a comprehensive introduction to mobile application development followed by the final hackathon. It was successfully concluded in July 2021 with the contribution of over 600 participants and three winning teams. RevolUX is a UI/UX designathon organized by the IEEE UCSC Student Branch in collaboration with AIESEC at the University of Colombo. The major objective of this event was to unleash the creative and artistic minds of Sri Lankan undergraduates and schoolers while giving them indispensable exposure to different trends in User Interface and User Experience Design, and related fields. It consisted of two workshops conducted by industry experts followed by the 12-hour designathon. The event was a resounding success with over 1000 delegates and three winning teams.

Apart from the above, “Cloud Skill Challenge 2021”, a series of challenges aimed at enriching undergraduates with much sought out cloud computing skills; “7 Lines of Code”, a 7-day workshop series for the freshers to kickstart their academia; “UCSC IEEE Day 2021” a virtual celebration to celebrate the IEEE Day 2021; “ReidXtreme 2021”, a hackathon to build up the competitive programming skills of our undergraduates to successfully compete in IEEEXtreme 15.0, were also organized.

The silent giants behind all these success stories are a group of young, committed, dedicated, and enthusiastic individuals led by the Executive Committee of the IEEE UCSC Student Branch. Striving for excellence, the IEEE UCSC Student Branch has won several awards and accolades with the most recent being:

- IEEE Regional Exemplary Student Branch Award 2020
- The Darrel Chong Student Activity Bronze Award 2020 – Hackaholics 3.0, GameRush
- The Darrel Chong Student Activity Bronze Award 2018 – CloudHack’17
IEEE Bombay Section Signature Conference (IBSSC-2021)

The 3rd IEEE Bombay Section Signature Conference (IBSSC-2021), was organized by IEEE Bombay Section and ABV-IIITM Gwalior, India from 18th to 20th November 2021. Themed “Frontiers of Technologies: Fuelling Prosperity of the Planet and People”, this flagship conference of IEEE Bombay Section featured a comprehensive high-quality technical program including technical paper presentations, poster sessions, expert talks, and tutorials by eminent speakers from academia and industry. This conference was conducted in hybrid mode (both physical and online). A total of 90 participants participated physically at ABV-IIITM Gwalior and 200 participants participated online. During the Inaugural Ceremony, Dr. B. Satyanarayana (Chair, IEEE Bombay Section) highlighted various initiatives taken by IEEE Bombay Section to outreach and connect the members across the Section geography, and IBSSC-2021 is one such effort.

The three-day event served as a forum for disseminating the most recent advances in healthcare, agriculture, intelligent transportation, and renewable electronics. Participants from 16 countries including China, the US, the UK, Sri Lanka, Iraq, etc. presented their papers. Renowned researchers from various corners of the world shared their domain knowledge on the conference themes during the Keynote Sessions. The keynote speakers were Prof. Arumugam Manthiram (University of Texas at Austin, U.S.A.), Prof. D. P. Agrawal (Founding Director, ABV-IIITM Gwalior), Mr. Asim Bhalerao (Founder and CEO, Fluid Robotics, San Francisco, California, USA), Prof. Anurag Mairal (Adjunct Professor, Stanford School of Medicine, Stanford University, USA) and Prof. Juzer Vasi (Professor, IIT Bombay, India).

During the valediction ceremony, 14 best paper awards were announced in four different tracks. During the ceremony, both physical and online presenters shared their feedback appreciated this well-organized plethora of technical events despite the pandemic scenario, and expressed their happiness on this great learning opportunity. Organizing Chair of IBSSC-2021, Dr. Somesh Kumar thanked all the members and participants for the grand success of the conference.
IEEE Bombay Section IRC Lecture Series

The Standing Committee on Industry Relations (IRC) of IEEE Bombay Section plans and conducts activities to encourage and strengthen the professional relationship among various industries, research organizations, and academic institutes within the geographical domain of IEEE Bombay Section. IRC is also organizing lecture series wherein eminent personalities are invited to deliver lectures on the IEEE Bombay Section forum. The most recent lecture in this series was delivered by Dr. Ajay Kumar, Defence Secretary, Government of India on “Make in India Initiative - Challenges, Opportunities and Road Ahead” on 6th November 2021 which was followed by a lecture on “Energy Security for India’s Development in a Carbon-Constrained World” by Dr. Anil Kakodkar,

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IEEE Hyderabad Section

IEEE GRSS Summer School 2021 - Hyderabad Chapter
Mousmi Ajay Chaurasia, Chair for IEEE GRSS Hyderabad Chapter

The IEEE Geoscience and Remote Sensing Society (GRSS) Hyderabad Chapter in collaboration with Muffakham Jah College of Engineering & Technology and Geethanjali College of Engineering and Technology, Hyderabad organized a 3-day GRSS Summer School on “Artificial Intelligence in Remote Sensing Applications” from 21st to 23rd October 2021. The inauguration was held in hybrid mode and Mr. Deepak Mathur, Director, IEEE Region 10 was invited as the Chief Guest of the function with a limited audience of 70 participants. The entire event was conducted through online mode and more than 1200 participants from across the globe registered (Malaysia, Australia, Mexico, Germany, Nigeria, Italy, Spain, Turkey to name a few). From India, participants from reputed universities and renowned industries such as IIT Kanpur, IIT Roorkee, ISI Kolkata, ISRO, and Samsung took part.

The recent spurt in the adoption of artificial intelligence-based techniques by Industry giants for commercial use has created a demand to reskill young professionals. Also, many startups that provide AI-based solutions to customers have sprung up and are on the lookout for graduate students who have prior exposure and working knowledge in AI in remote sensing applications. This in turn has led to a requirement to provide additional skills to new job aspirants. This summer school attempts to fulfill the above requirements through a balanced program incorporating theory, implementation, and applications of remote sensing.

We have put together six lecture sessions and three hands-on cum tutorials sessions, all covering a range of topics and areas of interest related to remote sensing applications, crop classification, QGIS, and Google earth implementation techniques. The program was widely covered by the press in various local newspapers and dynamic media e.g. Sakshi, Times of India, Namaste Telangana, Andhra Jyothi, Eenadu, etc. The program was hectic, very informative, and useful in today's context. All the sessions were highly interactive, lively, and interesting, and credit goes to all the participants and the speakers.
Finally, certificates of participation were distributed to all participants. Soft copies and recorded links of all the sessions were also given to all participants. Online overall event feedback was taken. The participants were extremely happy and satisfied with the event and strongly suggested organizing more similar events in the future. The objective of the program has been successfully achieved, with the entire organizing team had put all their efforts to set this milestone, leading to a grand success.

Three GRSS Student Chapters were inaugurated after this event. There was also a 50% increase in GRSS membership in Hyderabad Section and a significant increase in GRSS membership at the global level.

IEEE Karachi Section

IEEE Karachi Section Grand SAC Meetup

Bhawani Shankar Chowdhry, Chair for IEEE Karachi Section
Muhammad Rafay Shaikh, Section Student Representative for IEEE Karachi Section

IEEE Karachi Section celebrated IEEE Day on 15th October 2021. The event was attended by chairpersons from all over Karachi along with their branch counselors. The event was planned to bridge the gap between the Student Branches all over Karachi and bring them together on a single platform. The event was managed by the SAC team and attended by the ExCom of IEEE Karachi Section. In total 50 people attended the event. Various activities were executed to engage the audience, from fun activities to interactive sessions.

The event started with the name of Allah the Almighty and was followed by the national anthem. Then the Student Branch of Ziauddin University was inaugurated. The counselor of the Student Branch expressed his immense joy in bringing IEEE to the Ziauddin University’s campus. This was followed by the much-awaited Chairpersons and Branch Counselors meetup. This session was extremely productive as the officials from the Karachi Section shared their experiences and shed light on the working of the IEEE organization. A fun activities session was also planned for the Student Branch chairpersons.

The SAC team then had a special collaboration invitation session planned, where Student Branch chairpersons invited each other to collaborate in organizing events. Moving forward, there was a small interactive session planned, where the compatibility of the chairpersons and branch counselors was tested via a short quiz having questions related to the activities of the society.

Lastly, there was a networking dinner planned, which gave the guests a chance to interact with each other freely and discuss the problems that they might be facing as well as things they have planned in regards to the working of the society. The event was concluded with a short cake-cutting ceremony and ending note by the officials of the IEEE Karachi Section.
Industry-Academia Dialogue Forum on Industry 4.0
Abi Waqas, Chair for IEEE IES Karachi Chapter

Funded by IEEE Region 10, IEEE IES Karachi Chapter conducted a seminar on “Industry 4.0 and Skill Development for the Youth” on 13th December 2021. An understanding of current aspects of both IoT and AI is necessary for this generation to focus their attention on the combination of IoT and AI. As Christian Kubis said “Industry 4.0 is not really a revolution. It’s more of an evolution.”

Dr. B.S Chowdhry and Dr. Tariq Soomro initiated this event and highlighted the IEEE’s efforts and importance in collaborating with industries and academic institutes in the emerging areas of technologies. Abi Waqas mentioned social and volunteer work as fundamental constituents of career growth. He also highlighted that technical knowledge and professional ethics not only mature a good engineer but also help in transformation into a good human being. Guest speakers for the seminar were Muhammad Ali Mughal, Bhagwan Das, and Fayaz Ali Dharejo. 210 participants attended the forum.

IEEE Kerala Section

EVHack - BOSCH – IEEE Hackathon
Sooraj V Namboothiri, Student Representative for IEEE IA/IE/PELS Kerala Jt. Chapter

EV Hack (Bosch – IEEE Hackathon) is an Electric Vehicles Online Hackathon organized by IEEE IA/IE/PELS Kerala Jt. Chapter in association with Robert Bosch Engineering & Business Solutions India. This hackathon is exclusively for 3rd-year undergraduate engineering students around PAN India. The winning teams of the Hackathon is granted a 6-month internship, partly in RBEI and their parent institute after meeting the BOSCH interview process. EVHack was ignited with a webinar series that mainly focused on the technological aspects of electric vehicles. A boot camp was organized on 15th May 2021 to educate the participants about Electric Vehicles and provide them with a clear idea regarding the hackathon. The final phase commenced on 17th July 2021 with an inauguration ceremony. The chief guest was Mr. Deepak Mathur, IEEE R10 Director, and Mr. Vadiraj K, VP and CTO of RBEI. A total of 22 teams presented their solution on 17th and 18th July. The top 3 teams were announced as winners.
IEEE PES Kerala Chapter: APPEEC 2021
Alina Thomas Thanangadan, Global Publicity Outreach Coordinator for IEEE PES Kerala Chapter

The 13th IEEE PES Asia-Pacific Power and Energy Engineering Conference 2021 (APPEEC 2021) was hosted virtually by IEEE PES Kerala Chapter from 20th to 23rd November 2021, with the theme 'Power and Energy for a Greener World'. The first day of the conference kicked off with the SPAA activities organized by IEEE PES KC and IEEE SB SCTCE. This was followed by the tutorial sessions on various topics, YP Track & WiP Track. The second day began with the inaugural ceremony. The ceremony was graced by the presence of several distinguished guests. Six keynote sessions were held across the four days. The third day saw the initial sessions of paper presentation. Industry workshops by Eaton, GE Digital India, and KSEBL were also held. The conference came to an end with the final paper presentation session and the closing ceremony.

IEEE Kolkata Section

Recent Activities of IEEE-Kolkata Section
Tridibesh Nag, Newsletter Committee Chair for IEEE Kolkata Section

Third IEEE Milestone in Kolkata
Calcutta Electric Supply Corporation (CESC) received the third IEEE Milestone in Kolkata under the aegis of the IEEE Kolkata Section. This is the only Section in India having three milestones, where India has five milestones altogether. A bronze plaque weighing 8.5kg given by IEEE (USA) was installed at CESC House on 18th December 2021. The event was blessed by the gracious presence of Mr. Deepak Mathur, Director for IEEE Region 10 along with Mr. Rabi Chowdhury, MD (Gen.), Mr. Debasish U Banerjee, MD (Dist.) and Mr. Gautam Ray ED (HR&A), CESC Limited. A Gala event was also organized on the same date in Hotel Lalit Great Eastern, Kolkata commemorating this occasion.

18th IEEE India Council International Conference (INDICON 2021)
IEEE Kolkata Section organized the 18th IEEE India Council International Conference (INDICON 2021) from 19th to 21st December 2021 at IIT Guwahati. The inaugural session was blessed by the gracious presence of eminent personalities such as Mr. Deepak Mathur, Prof. Saifur Rahman [online mode], Dr. Suresh K. Nair, Prof. T.G. Sitharam, along with other conference chairs. As part of the INDICON inaugural ceremony, some major award announcements were made (Shri P.P. Chhabria Awards, POWERGRID, IEEE India Council Excellence Awards, and IEEE India Council LTA Awards). INDICON had two sponsors: ERICSSON (Gold Sponsor) and CESC Ltd. (Silver Sponsor). The focus of INDICON 2021 was for the students and young professionals from academia and industry to engage themselves in good research and engineering for the benefit of society. The theme of the conference was “Leveraging Technology for a Self-Reliant and Sustainable Society”.

IEEE REGION 10 CONNECT
JANUARY 2022

SECTION/ SUBSECTION/ COUNCIL ACTIVITIES
INDICON 2021 had a total of 948 participants [online-848 and offline-100]. Authors were invited to submit their papers in 12 different tracks. Participants could present papers and watch lectures through six different virtual halls, provided by the INDICON virtual platform. The first day of the conference witnessed two keynote lectures and one plenary lecture. On the same day itself, four parallel tutorial sessions were conducted. The second day of INDICON commenced with a keynote speech. An invited talk too took place on the same day. As part of the WIE track, a panel discussion and a plenary invited talk were held. On the last day, one keynote lecture, two invited talks, and two sponsored talks took place. Altogether, INDICON had four keynote lectures, four tutorial sessions, one plenary lecture, three invited talks, two-panel discussions, two sponsored talks, and one WIE plenary invited talk. The final day of INDICON concluded with a Valedictory Function, along with the announcement of best paper awards (track wise) and the M. V Chauhan award.

IEEE Madras Section

IEEEMadras Section Activities

Kumarappan N, Chair for IEEE Madras Section

IEEE MASCON 2021

A new initiative of the IEEE Madras Section to organize the first-ever hybrid conference of 2021 with many precautions and overcoming the hurdles was an immense success. IEEE Madras Section International Conference 2021 (MASCON2021) took place for two days from 27th to 28th August 2021 at Le Royal Méridien, Chennai, Tamil Nadu. The initiative to this first-ever hybrid signature conference of the Madras Section was taken and executed by Dr. N Kumarappan, General Chair for MASCON2021.

The technical tracks had about 547 registered papers from 12 countries out of which about 200 papers were selected, 121 papers were accepted and 87 were registered to be presented at the conference. The event started with plenary talks from various industries across the globe such as Mr. John D. McDonald, GE’s Grid Solutions, Georgia, USA; Dr. Ganesh Sankaranarayanan, the University of Texas Southwestern Medical Center at Dallas, USA; Dr. S. K. Ramesh, California State University, Northridge, USA; Dr. Suresh Sundaram, Department of Aerospace Engineering IISc, Bangalore; Dr. N. Kumarappan, Annamalai University; Mr. K. Mukund, Vice President Tech Mahindra Bangalore; and Mr. Ravikiran Annaswamy CEO and Co-founder, Numocity Technologies, Bangalore. The inspiring presidential address was delivered by Mr. Deepak Mathur, Director of IEEE R10, and the guest of honor was Dr. Suresh Nair, Chairman IEEE India Council who passed his support to the team connecting virtually.

IEEE MAS SB LEADD

On 28th July 2021, 6 PM IST, IEEE Madras Section paved a gateway for students to pursue and haunt their dreams. IEEE Madras Student Branch Leadership Enhancement and Development Drive (IEEE MAS SB LEADD) is a 5-day resolute solicitous virtual event sponsored by IEEE Region 10, IEEE Region 10 Students Activities Committee, IEEE Madras CIS Chapter, and IEEE Madras Young Professionals.

Following the inauguration, Dr. N. Kumarappan, Chairperson of the IEEE Madras Student’s Activities delivered a keynote talk. Dr. Rajasree Jain, Secretary for IEEE India Council joined as the guest of honor. The various events including SB mentor-mentee discussion, workshop on effective IEEE event proposals, and report
writing were organized. As part of the event, a panel discussion was also conducted. Membership development kits were provided for all the Student Branches.

IEEE MAS E-TECH SYMPOSIUM
IEEE MAS E-TECH, a two-day symposium was organized by IEEE Madras Student Activities Committee and Student Coordination Team on 4th July 2021. Dr. N. Kumarappan, Chair for IEEE Madras Section addressed the participants and welcomed the gathering. The chief guest address was delivered by Mr. Deepak Mathur, Director for IEEE R10. Various events like career enhancement programs, student paper contests, and project expo were organized. The winners of IEEE MAS E-TECH were felicitated with awards worth twenty thousand at MASCON 2021.

International Workshop by IEEE CIS Madras Chapter (23rd to 26th July 2021)
Kumarappan N, Chair for IEEE CIS Madras Chapter

Day-1: Dr. Vincenzo Piuri, IEEE Region 8 Director presented a topic on “Artificial Intelligence in Cloud/Fog/Edge Computing and Internet-of-Things”. This is followed by Dr. Cesare Alippi, Professor of Information Processing Systems, Polytechnic University of Milan, Italy who delivered a talk on the topic “Neural Graph Processing: An Embedding-Based Approach”.

Day-2: Dr. G. Saravana Kumar, Professor, Department of Engineering Design, presented the topic “Machine Learning Applications in Medical Image Analysis”. Dr. S. Jagannathan, Professor of Computer Science, Missouri University of S&T, USA then delivered a talk on the topic “Artificial Immune System as a Function of Approximator for Fault Prognostics Applications”.

Day-3: Started with the topic “Hybrid WIPSO - GSA Algorithm Based Optimal DG and Capacitor Planning Considering Different Load Types and Load Levels” by Dr. N. Kumarappan, Chair, IEEE Madras Section. This is followed by the lecture on the topic “Meta-cognitive Neural Networks” by Dr. Narasimman Sundararajan, School of EEE, NTU, Singapore.

IEEE Malabar Subsection
Design Thinking and Resume Preparation Workshop
Sabiq P V, Chair for IEEE Malabar Subsection

An online workshop on design thinking and resume preparation was organized by IEEE Malabar Subsection in association with KMCT College of Engineering for Women, Kozhikode on 23rd October 2021. The event was named Empower 5.0. The objective of the workshop was to provide answers to the question “what is design thinking and why is it so popular?” The resource person for the program was Rajith Karunakaran,
IEEE Region 10 Connect

JANUARY 2022

Section/Subsection/ Council Activities

Design Thinker, Corporate Trainer (Grade A, MEPSC), Regional Mentor of Change (Atal Tinkering Lab), and Adobe Creative Educator (Level 2).

The program was conducted in two sessions. The first session was on ‘Designing the Future – Design Thinking Simplified’. Here the importance of design thinking in the present scenario was highlighted. He started his session by stating the idea of design thinking, and advanced design thinking concepts. He stated that design thinking is a human-focused, prototype-driven, innovative design process. Design thinking helps in developing a practical and innovative solution to a problem. It is an iterative process from which one can understand the user and redefine the problems by attempting alternative strategies and solutions that might not be instantly apparent with our initial level of thinking.

It is important to build a good resume. With that intention, the second session of the workshop focused on building a flawless resume. Many tips for preparing a CV were discussed. Both the sessions were very much interactive. A total of 75 students participated in the workshop.

IEEE Malaysia Section

Talk: Benefits of being a member in IEEE RAS to build a better career
M.K.A. Ahamed Khan, Chair for IEEE RAS Malaysia chapter

IEEE is the world’s largest professional society dedicated to advancing technological innovation and excellence for the benefit of humanity. IEEE and its members inspire a global community through IEEE’s highly cited publications, conferences, technology standards, and professional and educational activities. In this talk, held on 25th October 2021, students not only gain the complete spectrum of IEEE societies and the importance of being a professional IEEE member, but they were also exposed to the essential and exclusive benefits offered to IEEE members, including technical information, networking opportunities, career development, and member discounts. The event was called 180 SRS and was organized by Mr. Ghulam E Mustafa from University Technology Petronas (UTP). Dr. Mohamed Khan was invited as one of the keynote speakers. Later Dr. Mohamed Khan briefed the audience of more than 40 students and 13 engineering staff on the vision, mission, and complete IEEE organization structure and its benefits.

IEEE Queensland Section

Energy Transition Workshops
Daniel Eghbal, Educational Activity Chair for IEEE Queensland Section

IEEE Queensland Educational Activities, one of the 2021 R10 New Innovation Challenge funding recipients, organized two workshops on 22nd and 23rd November 2021 for university students in Queensland on energy transition. The goal was to develop suitable tailored content for educational purposes for university students by leveraging existing capabilities available within IEEE Queensland Section. The workshops were planned and organized in collaboration with Power and Energy Society Chapter in Queensland and the IEEE Region 10 Connect Queensland Committee.
Student Branches at UQ and QUT. Very positive feedback was received after the two workshops (10 and 20 participants respectively) with a keen interest in planning similar events in 2022.

Australia is amongst the leading countries with the highest penetration of distributed energy resources (DER) and already embarked on its energy transition journey. This creates a great opportunity for university students who are the future leaders of the industry in Australia to learn more about technical challenges and opportunities associated with energy transition driven by the 2050 net Zero Emission target and customer uptake of renewables and electric vehicles. And IEEE community is best positioned to assist students in developing their knowledge and skills to prepare for an exciting and once-in-a-lifetime career opportunity.

IEEE Vizag Bay Section

2021 IEEE International Conference on Intelligent Systems, Smart and Green Technologies (ICISSGT 2021)

Khwaja Muinuddin Chisti Mohammed, Secretary for IEEE Vizag Bay Section

IEEE International Conference on Intelligent Systems, Smart and Green Technologies (ICISSGT 2021), a Vizag Bay Section signature conference, was organized from 13th to 14th November 2021 on hybrid mode. This year’s theme is “Unknown to Known: Technology as a Tool and Known to Unknown: Humanity as Focus.” There were 206 manuscripts received from many countries, with 40 of them presented at the conference. Prof. Saifur Rahman, 2022 IEEE President-Elect was the Chief Guest, and Prof. S. N. Singh, Past Chairperson of IEEE India Council was the Guest of Honor. Sri M.G.P.L. Narayana, Vice-President TCS delivered the keynote address on ‘Race against the Machine Surviving and Thriving in the Systems Age’. Dr B. Satyanarayana, Sri P.V.S. Maruthi Rao and Prof. G. Sree Lakshmi gave invited talks.
IEEE Bangladesh Section WIE AG

GATE SET ARDUINO!
Sadia Afreen, Chair for IEEE Bangladesh Section WIE AG

IEEE BUP SB WIE Affinity Group organized its second outreach program, GATE SET ARDUINO! - a collective of engineering workshops for pre-university students on 1st and 2nd October 2021. The purpose was to guide pre-university students into choosing engineering as their future field of study and career prospects. 137 students (75 female and 62 male students) from 18 institutions registered to join the workshops. It was actualized in collaboration with four renowned clubs of Bangladesh. The program consisted of 2 consecutive sessions, conducted by two professionals in their respective fields. The first workshop’s speaker, Nasirul Mamenin Mouno discussed the basics of robotics and performed some simulations on Tinkercad. The audience also participated in practicing it which made the session very lively. The second workshop overviewed the fundamentals of digital logic which was conducted by Suriya Tasmim Disha. Both sessions were extremely stimulated with participants asking queries on various matters. Afterwards, all the participants received e-certificates.

IEEE Karachi Section WIE AG

POWER - Phenomenal, Omnipotent, Women, Engineering, Responsibility
Isma Farah Siddiqui, Chair for IEEE Karachi Section WIE AG

The IEEE Karachi Section WIE Affinity Group, with the support of IEEE Region 10 WIE, organized a seminar on 7th December 2021 to enhance the interpersonal skills of women in engineering to a phenomenal level. The seminar topics were in close relevance to building mutual harmony for active participation. The first talk was on the communication skills to achieve target-oriented professional confidence in women, by Dr. Isma Farah Siddiqui, Chair for IEEE Karachi Section WIE AG. The second talk discussed the proactive role of women in a variety of engineering fields, by Dr. Bushra Naeem, Vice-Chair of IEEE Quetta Subsection and Member of R10 MD Committee. The third talk focused on utilizing STEM opportunities in a variety of R&D areas for women, by Dr.
Empowering Women - Creating a WAVE of Awareness  
Sumaiya Aziz, Chair for IEEE Karachi Section HIET WIE AG

Empowering women has always been a significant move. To uplift the spirits of various IEEE WIE Affinity Groups, various supporting fund programs are offered. Similarly, a funding opportunity was granted by IEEE Region 10 WIE titled ‘IEEE R10 WIE Special Support Fund 2021’. Opportunely, IEEE HIET WIE AG (AG in Hamdard University Karachi, Pakistan) was one of the affinity groups that qualify for the support fund. The proposal on ‘W.A.V.E - Women, Aspiring, Viable Engineering’ submitted by Sumaiya Aziz (Chairperson for IEEE HIET WIE AG) planned to utilize the grant in a way that fulfills the objectives of the support fund. The event addressed women’s possibilities for a flying career and social challenges. The event conducted on 9th November 2021 influenced all the 200 participants as it endured a relatable point for every person. Such measures must be made more common to boost the confidence of young females who are passionate to contribute to society.

Women in Engineering - NUST PNEC  
Ayesha Quddus, Chair for IEEE Karachi Section Pakistan Naval Engineering College WIE AG

WIE with WEP arranged a ‘STEM Outreach Program’ for girls from grades 7 to 10 on 11th September 2021 (MS Teams), attracting 200 girls from Pakistan. With the aid of engaging activities, WIE’s members made school girls explore the gamut of engineering fields.

IEEE Karachi Section YP

IEEE Young Professional UpSkills Training  
Muhammad Faizan Usman, Branch Counselor for Hamdard Inst of Engineering & Tech YP AG

IEEE Karachi Section Young Professional won funding of USD400 to organize an UpSkills Training session for our young professionals. The objective of the event is to encourage and train students and professionals with the advancement of their professional career growth and development through technical and non-technical sessions. For this purpose, leadership and soft skills enhancement sessions were organized on 30th September 2021 attended by 150 participants. The main motive is to provide a platform for networking. The session was led by Engr. Khawaja Tanveer encourages problem-solving, knowledge sharing, and adopting
new technologies and techniques. Another keynote speaker Engr. Kazim Ali covered the contents related to emotional intelligence. Mr. Asad-ur-Rehman talked about adopting a style that is conducive to a positive working atmosphere for better team building. Mr. Fahad Ahmed discussed project management, and how it is improved for individuals and organizations. In the end, Ramiz-ul-Haq, Chair for IEEE Karachi Section YP, thanked all speakers.

IEEE Kansai Section LMAG

LMAG Kansai Supported 2021 SB English Presentation Competition

Toru Chiba, Vice-Chair for IEEE Kansai Section LMAG

Ritsumeikan University Student Branch, in cooperation with LMAG Kansai, organized an English Presentation Competition 2021 in hybrid format on 23rd October 2021 at the Co-learning House in Kusatsu Campus of the University. The event was attended by sixteen speakers, three judges - including Prof. Shimohara, VC of LMAG Kansai, four executive members of Ritsumeikan SB, one counselor of the SB, and Dr. Kobayashi, Chair of LMAG Kansai. Three distinguished speakers were commended, and LMAG Kansai Award was given to one of the speakers. We plan to cultivate cooperation with Student Branches and position the event as one of LMAG Kansai’s original EA activities.

IEEE Tokyo Section LMAG

Evening Salon

Hideki Hayashi, Secretary for IEEE Tokyo Section LMAG

The 4th Evening Salon was held on Thursday, 18th November 2021 from 3 PM to 5 PM at the building near Tokyo Tower with 17 participants. It is a discourse meeting intended to freely exchange opinions on the topic. It was difficult to hold this event due to the epidemic of the new corona, and it was held again after two and half years of absence.

The theme of this evening salon was provided by Hitachi Ltd., and Dr. Digh Hisamoto provided the topic of ‘Current status of SiC power devices.’ Dr. Hisamoto introduced his expectations for SiC devices in the field of power devices and his efforts to tackle the issues that have become clear in recent years by a deep understanding of SiC MOS structures. In the second half, there was a lively question and answer session with refreshments.
IEEE Regional Connect

JANUARY 2022

STUDENT BRANCH ACTIVITIES

IEEE MUET Student Branch [Karachi Section]

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

Abi Waqas, Branch Counsellor for IEEE MUET Student Branch

Students of today are facing a lot of challenges to kickstart their careers and that is why IEEE MUET Student Branch and TES, TL, MUET came up with an idea to address these issues with an innovative idea of connecting individuals to the right industries. It is said well that ‘Opportunities do not come to us, but we have to create them’. With this in mind, we organized an out-of-the-box and unique webinar on ‘The Importance of Professional Communication Skills and LinkedIn in Shaping Your Career’ on 21st August 2021. The speakers are Dr. Faheem Aziz Umrani, Engr. Fahad Qadeer and Engr. Muhammad Zakir. The Chief Guests were Prof. Dr. Samreen Hussain (Vice-Chancellor Begum Nusrat Bhutto Women University, Sukkur) and Dr. Bhawani Shankar Chowdhry (Distinguish National Professor, Professor Emeritus, MUET Jamshoro, IEEE Karachi Section Head). There was a total of over 250 attendees in this webinar and the proceedings were highly appreciated by all the participants and guests.

IEEE SB GCE Kannur Student Branch [Kerala Section]

National Symposium and Research Colloquium

Mridul PM, Secretary for IEEE SB GCE Kannur Student Branch

IEEE GCEK Student Branch, in association with IEEE IA/IE/PELS Kerala Jt. Chapter, IEEE Kerala Section and APJ Abdul Kalam Technological University, organized the National Symposium and Research Colloquium from 11th to 12th September 2021. The event focused on promoting the research works of Master’s students and Ph.D. scholars. There were five tracks wherein the emphasized area was anything related to the recent trends in Electrical, Electronics, and Computer Science Engineering. Each track began with a keynote session by experts in the respective research fields, followed by the presentations. Out of 67 participants’ registrants, 34 were shortlisted for the final presentation. The event was inaugurated by Dr. Shalij P R (Research Dean, APJAKTU) on 11th September. The chief guest for the closing ceremony on 12th September was Dr. Sadiq A (Academic Dean, APJAKTU). The event overall provided a great insight towards research in various areas and gave an opportunity for students to showcase their works.
## AWARDS & FUNDING

IEEE Region 10 Newly Elevated Fellow Class of 2022

### Bangalore Section

- **Gopal Pingali**: for contributions to hybrid cloud computing and real-time MM systems
- **Kumar Sivarajan**: for leadership in optical networking
- **Suparna Bhattacharya**: for contributions to Linux kernel for ent. and adv. data processing systems

### Beijing Section

- **Bo Ai**: for contributions to channel modeling and wireless comm. in high-speed railways
- **Chunhua Yang**: for contributions in intel. control and optimization of complex industrial processes
- **Haifeng Wang**: for contributions and leadership in natural language processing and AI tech
- **Jian Xun Jin**: for development of operational high-temperature superconducting power devices
- **Jingdong Wang**: for contributions to visual content understanding and retrieval
- **Junlan Feng**: for leadership in spoken dialog applications, AI platform, and network intelligence
- **Linglong Dai**: for contributions to massive MIMO
- **Shiguang Shan**: for contributions to visual signal processing and recognition
- **Tianshu Bi**: for contributions to synchrophasor technology and protective relay applications
- **Xiang Cheng**: for contributions to vehicular communication channel modeling and system design
- **Xing Xie**: for contributions to spatial data mining and recommendation systems
- **Yonghong Tian**: for contributions to knowledge-based visual data analysis
- **Yu Wang**: for contributions to domain specific accelerator design
- **Zhangdui Zhong**: for contributions to theory, tech. and development of mobile comm. for railways
- **Zheng Yang**: for contributions to wireless localization and sensing

### Bombay Section

- **S Sudarshan**: for contributions to query processing and optimization in databases

### Chengdu Section

- **Heng Tao Shen**: for contributions to multimedia content understanding and retrieval
- **Qi Huang**: for leadership in informatics for smart electric energy system

### Daejeon Section

- **Sung Ik Park**: for contributions to physical layer development of broadcast systems

### Guangzhou Section

- **Wenquan Che**: for contributions to planar trans. line structures for microwave passive components
- **Xiuyin Zhang**: for contributions to the design of filtering antennas
- **Yefeng Zheng**: for contributions to machine learning for medical imaging
<table>
<thead>
<tr>
<th>Region</th>
<th>Individuals</th>
<th>Contributions</th>
</tr>
</thead>
<tbody>
<tr>
<td>Harbin Section</td>
<td>Guang-hong Yang</td>
<td>for contributions to fault tolerant control of dynamical systems</td>
</tr>
<tr>
<td>Hefei Subsection</td>
<td>Kejiu Li</td>
<td>for contributions to resource-efficient and QoS-oriented cloud computing</td>
</tr>
<tr>
<td>Hong Kong Section</td>
<td>Gerhard Hancke</td>
<td>for contributions to secure and resilient wireless tech. for the Industrial IoT</td>
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<tr>
<td></td>
<td>Jun Zhang</td>
<td>for contributions to dense wireless networks</td>
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<tr>
<td></td>
<td>Minghua Chen</td>
<td>for contributions to delay-critical networked systems</td>
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<tr>
<td></td>
<td>Qing Li</td>
<td>for contributions to ML in multimedia, data mining and data warehousing</td>
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<tr>
<td></td>
<td>Youfu Li</td>
<td>for contributions to active visual sensing using structured light pattern projection</td>
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<tr>
<td>Kansai Section</td>
<td>Hideki Kawahara</td>
<td>for contributions to auditory-inspired speech signal processing and science</td>
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<tr>
<td></td>
<td>Shoko Araki</td>
<td>for contributions to blind source separation of noisy and reverb. speech signals</td>
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<tr>
<td></td>
<td>Tetsuzo Ueda</td>
<td>for contributions to dev. and comm. of III-V compound semiconductor tech.</td>
</tr>
<tr>
<td>Kharagpur Section</td>
<td>Sudip Misra</td>
<td>for contributions to intelligent sensing in constrained IoT environments</td>
</tr>
<tr>
<td>Kuala Lumpur Subsection</td>
<td>Saad Mekhilef</td>
<td>for contributions to control methods for photovoltaic systems and multi-level inverters</td>
</tr>
<tr>
<td>New South Wales Section</td>
<td>Boualem Benatallah</td>
<td>for contrib. to declarative service composition and web services middleware</td>
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<tr>
<td></td>
<td>Ivor Tsang</td>
<td>for contributions to large-scale machine learning and transfer learning</td>
</tr>
<tr>
<td>Queensland Section</td>
<td>Amin Abbosh</td>
<td>for contributions to electromagnetic medical imaging</td>
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<tr>
<td>Rajasthan Subsection</td>
<td>Mayank Vatsa</td>
<td>for contributions to secure biometric recognition</td>
</tr>
<tr>
<td>Seoul Section</td>
<td>Chul-hwan Kim</td>
<td>for contribution to protective relaying methods to reduce power system outages</td>
</tr>
<tr>
<td></td>
<td>Jin Hur</td>
<td>for contributions to design of permanent magnet synchronous motors</td>
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<tr>
<td></td>
<td>Kang-won Lee</td>
<td>for contrib. to development of SDN and virtualization tech. for 5G wireless networks</td>
</tr>
<tr>
<td></td>
<td>Sam Noh</td>
<td>for contributions to storage system software for flash and nonvolatile memory</td>
</tr>
<tr>
<td></td>
<td>Thomas Cho</td>
<td>for leadership and cont. in CMOS RFIC design and comm. of wireless mobile sys.</td>
</tr>
<tr>
<td>Shandong Subsection</td>
<td>Jiguo Yu</td>
<td>for contributions to data storage and processing in cloud and social environments</td>
</tr>
<tr>
<td>Shanghai Section</td>
<td>Zhijun Li</td>
<td>for contributions to control systems for wearable robotics and bio-mechatronics</td>
</tr>
</tbody>
</table>
### Singapore Section
- **Chuan Seng Tan** for contributions to wafer bonding technology for 3D packaging and integration
- **David Lo** for contributions to synergizing software engineering and data mining
- **Erik Cambria** for contributions to affective computing and sentiment analysis
- **Lay-kee Ang** for contributions to electronic and space charge effects in nanodiode and quantum materials
- **Tseng King Jet** for contributions to permanent magnet machines and distributed energy resources

### Tainan Section
- **Sun-yuan Hsieh** for contributions to fault-tolerance for internet and cloud computing

### Taipei Section
- **Hang-ting Lue** for contributions to charge-trapping memories and 3D NOR flash
- **Tian-hua Liu** for contributions to sensorless control for AC drives

### Tokyo Section
- **Abderrahmane Kheddar** for contributions to robotic haptics and humanoids
- **Hiroyuki Mizuno** for contributions to leakage current reduction in integrated circuits
- **Kiyohisa Terai** for contributions to optical fiber sensors and electrical discharge applications
- **Masato Motomura** for contributions to memory-logic integration of reconfigurable chip architecture
- **Michiel Bacchiani** for leadership in commercial automatic speech recognition systems
- **Moriyasu Miyazaki** for leadership in development of airborne radars and satellite communication microwave subsyst
- **Nobuyuki Sugii** for contributions to fully depleted silicon-on-insulator technology
- **Toshihiko Baba** for contributions to photonic nanophotonic waveguides and emitters
- **Xinkai Chen** for contributions to nonlinear adaptive control and observer design for mechatronics systems
- **Yoshihiro Ohba** for contributions to standardization of network security protocols
- **Yusheng Ji** for contribution to distributed computing in mobile and dynamic systems

### Victorian Section
- **Jinjun Chen** for contributions to scalable architecture for cloud data storage and processing

### Wuhan Section
- **Liangzhong Yao** for leadership in HVDC grid supporting integration of large wind farms

### Xian Section
- **Junwel Han** for contributions to visual saliency detection and image understanding
- **Ruqiang Yan** for contributions to defect/fault detection and diagnosis of rotating machines

### Zhejiang Subsection
- **Hongsheng Chen** for contributions to electromagnetic metamaterial and invisibility cloak
IEEE Region 10 Section Incentive 2021

Congratulations to the following Sections/Councils for making great efforts to organize activities and support their local IEEE communities.

<table>
<thead>
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### Subsections (Represented by its own country/ directly under R10)

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IEEE Day Celebration Throughout Region 10

IEEE DAY CELEBRATION

ACTIVITIES

Kerala Section
IEEE Day Celebration at Kollam Subsection

IEEE HUST Student Branch
IEEE Day Celebration

Japan Council
Online IEEE Day Celebration Jointed with JTB Nagoya Webinar Series

Australia Council
IEEE Australia Council 35th Anniversary

Pakistan Naeen Engineering College
IEEE Day Celebration with WIE - MUST PEC

IEEE MUST Student Branch
International IEEE Day Celebration

Madras Section
IEEE Day Celebration
Interview with IEEE TENCON2021 Chairs
Lau Bee Theng, Editor for IEEE R10 Newsletter

Prof. Lie Tek Tjing, the Deputy Head of School, at the Auckland University of Technology (AUT) School of Engineering, Computer, and Mathematical Sciences shared his decades of the journey with IEEE, from a student member in New York, professional member in Singapore until his recent portfolio in the IEEE New Zealand North Section. His inspiring sharing can be a guide to the young professional members and student members.

Prof. Nirmal Nair, a Professor from the University of Auckland, has been serving in IEEE for almost 30 years, from a student member of the first student branch in Gujrat, Banglore, US, and New Zealand. He shared with us his wonderful experiences throughout the journey with IEEE. It was indeed motivating and encouraging for the young members of IEEE.

IEEE International Conference on Computing, Communication, and Automation (ICCCA) 2021
Dr. Rabindra Nath Shaw, Conference Chair

The 2021 6th IEEE International Conference on Computing, Communication, and Automation (ICCCA) was jointly organized by Aurel Vlaicu University of Arad, Romania & IEEE IAS USA from 17th to 19th December 2021. ICCCA is a non-profit conference and it provides an opportunity for practicing engineers, academicians, and researchers to meet in a forum to discuss various issues and its future direction in the field of Engineering and Technologies. This conference aims to put together the experts from the relevant areas to disseminate their knowledge and experience for the relevant future research scope. The conference was financially sponsored by IEEE Industry Application Society (IAS) USA. There were 8 tracks in the conference covering areas of Computing, Communication, and Automation Engineering.

This 6th version of ICCCA received a massive response of 1283 papers from more than 29 countries and regions. More than 200 reviewers from all over the world completed the review process of these papers. Finally, 168 best-quality papers were accepted through a peer-reviewed process. The paper acceptance ratio was 15%. In this three-day mega event, 9 keynote sessions were organized. The keynote speakers were all distinguished professors from all over the world (USA, UK, Australia, China, Japan, Canada). The conference was organized virtually on an online WebEx platform adhering to the COVID-19 pandemic guidelines. All 168 papers have been presented virtually in 30 technical sessions over the three days. Two session chairs were present in each of these 30 technical sessions.
The conference commenced with a keynote address by Prof. Athula Ginige, Western Sydney University, Australia on a Smart Computing-enabled approach to achieve food security. This was followed by concurrent paper presentation panels, FD1 to FD5 in 5 parallel technical sessions. On completion of these five sessions, another 5 technical sessions from FD6 to FD10 started. On the first day, 48 papers were presented with the participation of more than 200 authors. The technical session was followed by another two keynote speeches by Prof. Jianhua Ma (IEEE Fellow), Hosei University Japan titled From Personal Big Data to Personal Life Assistance, and Manfred J. Schindler (IEEE Fellow), Independent Consultant and Chief Technology Officer Anlotek Ltd. on Contemporary Applications of Positive Feedback in RF Systems.

The second day began with two back-to-back technical paper presentation sessions, SD1 to SD5 in 5 parallel technical sessions followed by another 5 parallel technical sessions SD6 to SD10. 62 papers were presented on the day with the participation of more than 200 authors. The keynote speeches started at the evening by Prof. Jianwei Huang (IEEE Fellow), The Chinese University of Hong Kong, Shenzhen (CUHK-Shenzhen) on Incentive Mechanism Design for Crowd Systems, followed by Prof. Liming (Luke) Chen (IEEE Fellow), Ulster University, the United Kingdom on Computational Behavior Analysis for User-centered Smart Cyber-Physical Systems, and finally Prof. Deepa Kundur (IEEE Fellow), University of Toronto, Canada, on Analytics-Driven Cyber-Physical Security for a Converged Smart Grid.

The third day started with 5 parallel technical sessions, TD1 to TD5 followed by another 5 parallel technical sessions, TD6 to TD 10 with 58 papers in total. The third-day keynote speeches were delivered by Amarnath Raja, CEO, and Co-founder, InApp, & IEEE MGA Committee Chair A&A on IEEE Senior Membership - Benefits and Application Procedures, Prof. Laurence T. Yang (IEEE Fellow), St Francis Xavier University, Canada on Cyber-Physical-Social Systems: Design, Analytics, Security and Privacy, and Dr. Ram D. Sriram (Fed) (IEEE Fellow), National Institute of Standards and Technology USA titled On Computational Challenges in Cyber-Physical-Social System Design. These keynote sessions were attended by a large number of students and researchers.

ICCCA 2021 ended with the closing ceremony concluded with the vote of thanks by the conference chair.
The Singapore Week of Innovation and Technology (SWITCH) is one of the largest and most vibrant general-interest tech conferences in Asia. It is affiliated with the mammoth Singapore FinTech Festival (SFF), established in 2016, which draws some 60,000 attendees every year. Founded just three years ago, SWITCH brings together business leaders, entrepreneurs, engineers, scholars, and investors from the Global-Asia innovation ecosystem.

After a successful live event in its inaugural year, 2019, SWITCH went virtual in the first pandemic year of 2020 and pulled off a hybrid event this year, with both virtual sessions and some live ones at the JW Marriott Hotel in Singapore.

SWITCH 2021 was organized into three main channels, SWITCH Beyond, SWITCH Global and Slingshot. Beyond covers advanced and emerging technologies; Global is the channel for topics in business, markets, and international commerce; and Slingshot is a competition that offers an opportunity for startups to pitch VCs and business leaders and win funding. Most of the IEEE-branded sessions were in the "Beyond" track, which focused this year on healthcare & biomedical sciences, smart cities & urban solutions, trade and connectivity, and emerging sustainable technologies.

IEEE has partnered with SWITCH's organizers, Enterprise Singapore and Singapore’s National Research Foundation, from the very first event in 2019. That year, we hosted five sessions, including an exclusive and highly successful live Q&A with Tony Fadell, the inventor of the iPhone and co-founder of Nest Labs. The IEEE’s partnership with SWITCH is spearheaded by the IEEE Singapore Office, IEEE Spectrum, IEEE Entrepreneurship, and IEEE Industry Engagement. This year, the organizing team curated seven sessions for SWITCH 2021, involving some 12 distinguished panelists and four moderators from IEEE. Although no official figures are yet available, informal tallies taken during the panels indicate that they were viewed by hundreds of attendees. Descriptions of and pictures from the sessions can be found on the newsletter website: https://newsletter.ieeer10.org/home_jan2022/ieeeswitch-2021/

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<td>1. Microgrids, Hydrogen, and the Future of Electric-Power Delivery</td>
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<td>2. Future of Maritime Shipping</td>
<td>12.10 – 12.40 PM</td>
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<td>10.40 – 11.10 AM</td>
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<td>10 Nov (Day 3)</td>
<td>1. Fireside Chat between Prof Low, CEO of National Research Foundation &amp; Steve Welby, ED/COO of IEEE</td>
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<td></td>
<td>2. Future of Work</td>
<td>9.30 – 10.00 AM</td>
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<td></td>
<td>3. Restructuring the Global Semi-Conductor Industry</td>
<td>10.00 – 10.30 AM</td>
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<td></td>
<td>4. Back to the Moon: Cutting the Cost of Access to Space</td>
<td>10.35 – 11.05 AM</td>
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<td>5. IEEE Innovation Insights</td>
<td>11.05 – 11.35 AM</td>
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IEEE WIE Project-Based Learning School Camp 2.0

Ramneek Kalra, IEEE Impact Creator; and IEEE WIE AG Partners (Gujarat, Bombay, Madras, Singapore, Uttar Pradesh, Pune, Thailand, Hyderabad)

In order to provide knowledge of the importance of pre-university education in the school students from Grade 8th to 12th, IEEE Women in Engineering Project-Based Learning School Camp was held from 20th to 27th November 2021 concentrating on the theme of “Share2Care using Project-Based Learning”. It included the inauguration ceremony, session talks, hands-on sessions, followed by the presentation round and the closing ceremony. The event witnessed the participation of over 90 students from more than 5 countries including India, Nigeria, United States, Bangladesh, Singapore and Thailand.
IEEE REGION 10 CONNECT

JANUARY 2022

IEEE WIE Project-Based Learning School Camp

Theme: Share2Core using Project Based Learning

Date: 29th November - 3rd November, 2021

Eligibility: School Students from 6th to 8th Grade

Registration link: @WIEPBLRegistration

The camp consisted of the following talks: ‘The World of Content Creation and its Prominence’ by Ashok Khanduri (Senior Content Reviewer for French, Amazon), ‘Japanese for Career Success’ by Lalandhi S (Manager-strategic planning, Japanese Pluz), ‘The Stepping Stones for Creative Writing’ by Vagisha Anant (Blogger & sustainability Enthusiast), ‘Leadership Skills for 21st Century’ by Sinjini Sengupta (Founder, Lighthouse), and ‘An Era of Digital Marketing and Life towards Sustainable Development’ by Kamya Johar (IT Development Senior Associate, NTT Data Services). The teams were asked to present the problem statement via article/blog/presentation. They were judged on the basis of ‘Above & Beyond’, content richness, and presentation on their articulation done from the development phase.

Event Objectives:
- To introduce the Project-Based Learning Approach for school students around the world with the support of the Women in Engineering Affinity Group.
- To build a School-Belt Community under this Camp to initiate the zeal of innovative mindset.
- To enhance the practical implication of cutting-edge technologies related to the school curriculum.
- To foster the technological reach to Primary-Secondary School Levels so as to make budding students - Industry Ready.

Camp Partners:
- IEEE TryEngineering STEM Portal
- Junior Einstein Track, IEEE YESIST12-2022
- SST Global & Japanese Pluz

To know more about the Event, explore at: https://attend.ieee.org/wie-pbl/

Singapore National Engineers Day (NED) Virtual Seminar

Leo Hwa Chiang, IEEE Singapore Office

Since 2010, the Singapore National Engineers Day (NED) has ignited passion and curiosity in engineering amongst thousands of students in Singapore. This 12th edition of Singapore’s biggest festival is organized by the Institute of Engineers Singapore (IES) with the support of the IEEE Singapore Section, to celebrate the achievements of engineers, inspire young engineers, and intrigue the young generation in engineering.

NED was held from 9th to 20th November 2021. A series of fun and enriching activities were organized to demonstrate the ingenuity of engineers and the myriad of possibilities of an engineering career. This year, IES and IEEE Singapore Section organized a virtual seminar under the theme “Engineering for the New Normal” with 65 participants in attendance. During the virtual seminar, the Singapore Deputy Prime
Minister and Coordinating Minister for Economics Policies, Mr. Heng Swee Keat attended as the Guest-of-Honour, to officially open the World Engineers Summit 2021 at Resort World Sentosa. Around 1,000 participants were present with the majority tuning in online via Zoom and YouTube for the live streaming.

Along with the senior officials from government agencies, Mr. Steve Welby, IEEE Executive Director & COO was also invited as one of the honorable speakers, to speak on IEEE’s global presence as the world’s largest technical professional organization and her contribution to the pandemic response. This seminar has brought the engineering community together to spread an insightful view on engineering towards the post-pandemic and to contribute to a sustainable future through innovative technologies.

Quarter Tech Talk Table 5.0 | IEEE QT3 Series

Ramneek Kalra, IEEE Impact Creator & YP

A group of IEEE Young Professionals & Impact Creators gathered on 4th December 2021 (6 PM - 8 PM IST) to create awareness on technology and form a collaborative environment by initiating "Quarter Tech Talk Table 5.0 (QT3)" in the form of a Panel Discussion on the topic "Role of Technology in Climate & Sustainability" as a Special Women’s Edition. This was conducted in collaboration with “Universal Access to Technology” (Technical Committee) of IEEE SSIT and IEEE Industry Engagement Committee.

In continuation with the successful completion of the previous editions of QT3, the prominent YPs and Impact Creators across the globe once again came together for a panel discussion in the 5th edition of QT3 held on 4th December 2021. The panelists are listed below:

- Sudipta Debnath (Enterprise Software Architect - Proactive Software at Cisco)
- Prachi Shevgaonkar (Founder, Cool the Globe - A Citizen-Led Platform for Climate Action)
- Wioleta Burdzy Seth (Co-founder of Human Circle, Founding & Steering Committee Member of Youth for Sustainability India Alliance)
- Reva Bhardwaj (Sustainability Professional & TEDx Speaker)
Discussed Points:

Round 1 (Open Mic - Discussion on the Role of Technology in Climate & Sustainability):
- The discussion started with input from one of the panelists about sustainability and the role of energy in the same. The speaker insisted on the cause and usage of non-renewable energy in day-to-day life. Another point includes the existence of a circular economy and the responsibility of market leaders in implementing sustainable technology.
- Another panelist shared her views on sustainable technology, where insights including technology as an enabler in solving the climate crisis were shared. There were also thoughts of the speaker about the interest and involvement of the young generation in sustainable technology with the inclusion of apps and recent techniques.
- A panelist put forth her thoughts about the role of technology in sustainability and the dependence on climatic conditions. The experience of the speaker from the past highly supported the role of sustainability and usage of energy.

Round 2 (Closed Mic):
- The closed mic discussion started with a set of questions put forth to the panelists. The panelist shared their views on how innovative ways are used by businesses to put their contribution in working for climate change by becoming environment-friendly and incorporating sustainable development targets.
- As an employee at Cisco, one of the panelists focused on how Cisco is contributing towards climate change and sustainability. She explained about Cisco's Circular Economy with which they have created a measurable impact by making meaningful progress in reducing the environmental impact and accelerating the contributions to a circular economy.
- Another panelist being the founder of a citizen-led platform for climate action elaborated on how her digital campaigns regarding climate consciousness made an impact on the lives around her.
- The closed mic round was concluded with the fact that numerous businesses are putting forward their efforts to work towards a sustainable technology. With this comes an inevitable fact that IEEE plays an impactful role in leveraging technology for Climate and Sustainability.

Round 3 (Open Floor - Ask the Panelist):
Under this last section, the “Quarter Tech Talk Table 5.0 (QT3)” in the form of a Panel Discussion on the topic “Role of Technology in Climate and Sustainability” was open to the virtual delegates for the Q&A session. This season of QT3 was indeed special as it was an all-women table-talk, and the discussion was on a remarkable topic of technology and its impact on global concerns.

With the ending of this QT3 5.0, the QT3 Advisor, Dr. Prashant R. Nair & founding Chair Ramneek Kalra put together the thank remarks to the panelists & delegates.

The whole session of QT3 5.0 can be viewed at:

Information on the next QT3 Edition can be obtained at the links below:
- Website: https://attend.ieee.org/qt3/
- Registration Link: https://bit.ly/QT3Register
IEEE Collabratec Community Ads

Natalie Apadula, Product Marketing Specialist, IEEE Collabratec, IEEE MGA

IEEE Collabratec has launched a new community ad campaign, focusing on the technical communities in Collabratec and what they have to offer to members.

Join the AI conversation
Visit the Community

Collaborate in the IEEE Author Lab
Visit the Community

Meet like-minded Big Data professionals
Visit the Community

Discover new research in CyberEthics and CyberPeace
Visit the Community

Stay current on IEEE Future Networks—Enabling 5G and Beyond
Visit the Community
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.