



IEEE R10 TODAY



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WELCOMING MESSAGES

Message from IEEE Region 10 Director

Dear All IEEE Region 10 Members,



Even though all are suffering from the COVID-19 pandemic, I hope each of you is individually safe and healthy! When we held our most recent 7th March online Region 10 Meeting, in fact the first such online regional meeting among all our ten IEEE Regions, we had an ominous feeling concerning future events. Yet a number of events have since been successfully held online, and further online events and meetings are scheduled. These are to include our Sections Congress, R10 SYWL Congress, TENCON 2020, and R10HTC 2020. We are getting used to online meetings in this difficult situation, helped by us being engineers. But I still believe face-to-face meetings and the warmth of a human touch are very important for our organization and its gatherings. Like you, I naturally look forward to a return to such occasions in a not too distant future.

During this period of staying home, we began some outreach programs making use of local languages. Within our Region 10 we have a plethora of local languages, and there are many who would like to receive materials in their local tongue. With the generous help of the IEEE Robotics and Automation Society, not long ago we provided both Chinese- and Japanese-language subtitles for a very popular plenary speech on the topic of AI. We've also started a webinar series in Japanese. Let me know where local interest lies in furthering such innovation. Indeed, many Sections have signaled their interest in this activity of reaching out to local groups and subgroups, and I'm confident that a wealth of such materials in diverse languages will follow from our initial efforts with your significant help.

Another piece of news is new multimedia content in the current issue of our R10 Newsletter. We try fully to utilize our technology to create enriched content. I hope you will take notice and be pleased with the results, perhaps suggesting or facilitating further experimentation. Now we're halfway through the year 2020. Most of us are still faced with a changing variety of restrictions, especially in traveling abroad. For example, I am addressing this message to you during the current online Board of Directors meeting series, supposed to have been hosted in Chicago instead of digitally.

The good news is I and others are able to avoid long-distance travel, but the bad news is that a number of us have to attend meetings during our local nighttime and then work as usual during the day. We know we have to take care, but at the same time, we are striving to create a new normal both in our daily lives and in all IEEE activities. I do hope we are creative enough to do that and perhaps some unexpected good will come of it.

Keep staying safe and healthy!

With every good wish,

Akinori Nishihara

Director, IEEE Region 10

Message from IEEE Region 10 Newsletter Coordinator



Dear Region 10 Members,

It is my pleasure to welcome you to the July issue of IEEE Region 10 Newsletter, which is already our third edition for 2020. While COVID-19 pandemic may have halted many of our planned activities physically, it definitely did not stop Region 10 organizational units and volunteers to organize alternative online activities. Despite the lockdown in many countries, we received more than 50 report submissions from various organizational units for inclusion in this issue. Quite a number of these reports are on COVID-19 related activities. We would like to thank all these volunteers for their contributions to this newsletter.

This edition features special report on the recently concluded IEEE Region 10 Symposium 2020 (TENSYP2020), the first flagship R10 conference to be held in full virtual mode. With more than a thousand valid submissions from 19 countries, and more than 400 papers accepted for presentation, the conference did very well in organizing all the virtual presentations smoothly. TENSYP2020 organizers (Prof. Shaikh Fattah, Prof. Celia Shahnaz and team) have also very kindly agreed to share their experience in carrying out such a huge online event via a comprehensive article for immediate release in this issue. I believe every conference organizer will find the article very useful.

The newsletter continues with another four *Personalities of the Month* and five *Organizational Units of the Month* in this edition. Besides these, the issue also features the very first COVID-19 *Personalities of the Month*, a new initiative by the newsletter following the advice from Region 10 Director, Akinori Nishihara, to highlight our members who contributed in countering the COVID-19 threat. Besides the regular article, it also features a multimedia version which is published on our newsletter website. If you are working on COVID-19 related activities, and would like us to feature you in the coming issues, please drop us an email. We hope the pilot article and video featured in this issue will attract many more interests from our COVID-19 heroes to showcase their valuable work.

Our website version of the newsletter is also now live. From this issue onwards, you can read your newsletter through both the regular PDF version, as well as the more navigable website version. I would like to offer a very special thanks to all my R10 newsletter committee members for their incredible efforts in preparing both versions of the July newsletter issue. Finally thanks again all of you for your support, I hope you enjoy reading it. Stay safe.

Mohammad Faizal Ahmad Fauzi
Chair, IEEE R10 Newsletter Committee

2020 Newsletter Committee

Committee Member	Portfolio
Mohammad Faizal Ahmad Fauzi	Chair/Chief Editor
Shaikh A. Fattah	Lead Editor
Prashant R. Nair	Editor
Redwan Ferdous	Associate Editor
W. M. W. Sharika Jayalath	Associate Editor
Naim Ibrahim	Webmaster/Social Media
M Naila Mukhtar	Webmaster/Social Media
Nabeel Ahmed Masoodi	Graphic Designer



SPECIAL REPORTS



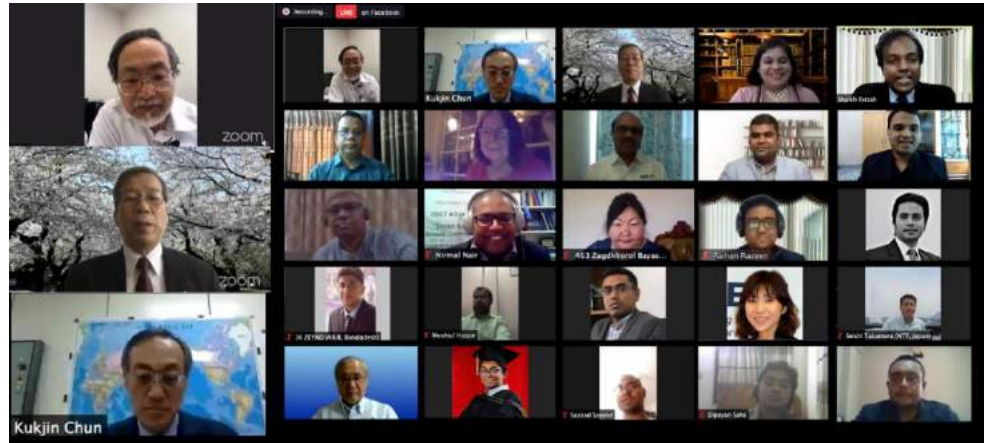
1. SPECIAL REPORTS

TENSYMP2020: The 1st Virtual Flagship Conference of Region 10

Shaikh Fattah, TPC Chair for TENSYMP 2020 and Celia Shahnaz, General Chair for TENSYMP 2020

TENSYMP2020, the first virtual flagship conference of IEEE Region 10 was successfully held from 5th to 7th June 2020. This article presents some facts and descriptions of the conference.

During the last phase of paper submission of TENSYMP2020 in the first half of March 2020, the whole world was facing a global COVID19 pandemic. In every aspect of life, there was an unprecedented change that halted all of our regular activities in every corner of the world. The fate of TENSYMP2020 became uncertain. The



conference was scheduled to be held as a face-to-face conference at Pan Pacific Sonargaon Hotel, Dhaka, Bangladesh from 5th to 7th June 2020. But we, a very strongly motivated program committee, did not lose our hope. And behind us, we got tremendous support from our beloved technical communities. In spite of severe obstacles as a result of the Corona crisis, we received 1,030 valid submissions in 12 technical tracks involving 2,308 authors from 19 countries. These included 201 international papers. The magnitude of this massive enthusiastic submission from diversified geolocations is a clear indication of the preference of TENSYMP as a brand, as well as its 2020 organizers, namely IEEE Bangladesh Section and IEEE Region 10.

Inaugural Ceremony of TENSYMP2020

The inaugural ceremony of TENSYMP2020 was held on 5th June 2020 at 10:00 AM (GMT +6). The Chief Guest of the ceremony was the IEEE President, Professor Toshio Fukuda, LFIEEE. Special Guests were IEEE MGA Vice President Professor Kukjin Chun, FIEEE, and IEEE R10 Director Professor Akinori Nishihara, LFIEEE. Professor Toshio Fukuda explained the lack of work environment all over the world to conduct research and other regular activities due to COVID19 pandemic. He enthusiastically complimented Dr. Celia and Dr. Fattah to organize TENSYMP2020 in spite of global pandemic and lockdown situation. Professor Kukjin Chun presented MGA activities and expressed his sincere gratitude to the whole team. Professor Akinori Nishihara thanked the organizers for their effort in taking the conference to this large scale. The video link of the Inaugural Ceremony can be found here <http://tensymp2020.com/inaugration.php>.

A great challenge faced by the organizers was to receive reviews during the worldwide lockdown situation, especially when it was completely locked down in Bangladesh and its neighboring countries. In spite of limited resources and lack of a work environment, the conference reviewers extended their highest possible support by providing very comprehensive reviews to each paper within the specified time limit. The conference received 2,365 double blind reviews from 293 reviewers from 18 countries. Apart from regular reviews, the papers were also checked by the TPC Chair and Co-Chairs taking into consideration the Track Chairs' recommendation and reviewers' comments. Finally, 446 technical papers were accepted and registered (43%) for presentation including more than 100 international papers involving authors from 17 countries. In comparison to the number of papers presented in all previous editions of TENSYMP, this is almost three times higher than the maximum 149 papers published in TENSYMP2019. In summary,

- 1,030 valid papers received [2,308 authors, 19 countries, 201 international papers]
- 2,365 double blind reviews from 293 reviewers from 18 countries
- 446 papers were accepted and registered (43%) [102 international papers, 17 countries]

In order to ensure timely dissemination of authors' research outcomes and shifting the conference dates, it was decided to organize a Full Virtual Conference. The major challenge was to implement this new concept of Full Virtual mode of conference, which has many new components compared to a conventional online meeting. With a view to make it as close as possible to a face-to-face conference, the organizers decided to host live online technical sessions with live question-answers. Considering the various time zones of the authors, the papers were scheduled in convenient timings. The sessions were extended from morning 8:00 AM to night 8:30 PM (GMT + 6 hours) and allowed changes in the draft schedule based on authors' conveniences as much as possible. Although the authors had the option to present live, considering the smooth uninterrupted operation pre-recorded video presentations were preferred.

The conference program comprised of:

- 71 parallel technical sessions in 12 technical tracks
- 134 Session Chairs from 14 countries. Details available in http://tensymp2020.com/session_chairs.php
- 44 Keynote/Invited talks from 16 countries with details available in <http://tensymp2020.com/speakers.php> and http://tensymp2020.com/invited_talks.php
- 6 special events: WIE, YP, Industry-academia, Humanitarian, Students & IEEE SPS
- Best papers (from each track) were declared during the closing ceremony
- Total participants present in three days: 1869 (unique IDs)



Keynote Speakers of TENSYP 2020

The closing ceremony of TENSYP 2020 was held on 7th June 2020 at 7:30 PM (GMT + 6). The Chief Guest of the ceremony was the IEEE R10 Director Professor Akinori Nishihara and the Special Guest was IEEE R10 Past Director and IEEE R10 Advisory Committee Member Professor Lawrence Wong. Professor Akinori Nishihara expressed his thanks to the organizers to arrange such a virtual conference with less than 1% non-presented papers in this very critical global pandemic situation. Professor Lawrence Wong shared his experience of joining various sessions. He praised the smooth operation of the conference and mentioned it as a resounding success. Technical Program Chair Professor Shaikh Fattah finally announced the Best Papers in each track. The video link of Closing Ceremony is available on http://tensymp2020.com/closing_ & award_ceremony.php



Closing Ceremony of TENSYP 2020

Conference proceedings was made available only to authorized users in an online drive. All registered authors, session chairs, reviewers, keynote/invited speakers were presented e-certificates. The links with names of different committees are given below:

- International Advisory Committee: http://tensymp2020.com/international_advisory_committee.php
- National Advisory Committee: http://tensymp2020.com/national_advisory_committee.php
- R10 Advisors: http://tensymp2020.com/region_10_advisor.php
- Chairs: <http://tensymp2020.com/chairs.php>
- Technical committee: http://tensymp2020.com/technical_program_committee.php
- Organizing committee: http://tensymp2020.com/organizing_committee.php
- Session Chairs: http://tensymp2020.com/session_chairs.php

Please click the link below to see a video recognizing committee members and speakers, http://tensymp2020.com/committee_&_speakers.php

In order to enjoy a video containing the glimpses of TENSYP 2020 please click the link, <http://tensymp2020.com/sessions.php>

The detail event schedule of TENSYP 2020 can be found here:

<http://tensymp2020.com/schedule.php>

Keynote Talks in TENSYP2020

[The order as per the program schedule]

1. Bi-directional Wireless Power Interfaces for V2G-H2V Applications, *Dr. Udaya Madawala, FIEEE*, Professor, Dept of ECSE, The University of Auckland, New Zealand
2. Challenges and Opportunities in Robotics as Systems Integration, *Dr. Kazuhiro Kosuge, FIEEE*, Distinguished Professor, Department of Robotics, Tohoku University, Sendai, Japan, 2020 Vice President for Technical Activities, IEEE
3. Leveraging Old Tricks in A New World: Efficient Generation of Labeled Data for Deep Learning, *Dr. Gaurav Sharma, FIEEE*, Professor, Dept. of ECE, Dept. of CS, University of Rochester, USA
4. Latest Advances in Video Coding Technology for Immersive Visual Communications, *Dr. Seishi Takamura, FIEEE*, Senior Distinguished Engineer, NTT Media Intelligence Laboratories, Japan
5. Sensing and Signal Processing for Autonomous Navigation, *Dr. KVS Hari, FIEEE*, Professor, IISc Bangalore, India; Vice President-Membership, IEEE SPS
6. Global Electric Power Sector: Engaging with Environmental Issues, *Dr. Saifur Rahman, FIEEE*, Joseph Loring Professor & Director, ARI, Virginia Tech, USA and Past President, IEEE PES
7. Advances in Noise Modeling in Stochastic Systems and Control, *Dr. Bozenna Pasik-Duncan, LFIEEE*, Professor, University of Kansas, USA and Past Chair of IEEE WIE
8. Empowering Humanity with Accessible and Sustainable Electronic Technology, *Dr. Muhammad Mustafa Hussain, FIEEE*, Professor, EE, KAUST and Professor, EECS, University of California, Berkeley, USA
9. Intelligent System Applications in Solving Engineering Problems, *Dr. SN Singh, FIEEE*, Vice-Chancellor, MMMUT, Gorakhpur and Professor (on leave), EE, IIT Kanpur, India
10. Hyperspectral Unmixing: Insights and Beyond, *Dr. Wing-Kin(Ken) Ma, FIEEE*, Professor, EE, The Chinese University of Hong Kong & SPS Regional Director-at-Large of R10
11. Infrared Image Registration and High Resolution Reconstruction, *Dr. Mohammad S. Alam, FIEEE*, Professor and Dean, FHD CoE, Texas A&M University - Kingsville, Texas, USA



Dr. V R Singh,
LFIEEE



Dr. Yoshinori Kuno



Dr. Norliza
Mohd Noor



Dr. Tetsuya
Shimamura



Prof Dr. Paul
Cunningham



Dr. Greg Adamson



Dr. Mohammad Faizal
Ahmad Fauzi



Dr. Akinori Ito



Dr. Charmayne
Mary Lee Hughes



Dr. Wisnu
Jatmiko



Dr. Amlan
Chakrabarti



Dr. Khan
A Wahid



Dr. Dominique
Duncan



Dr. Arokiaswami
Alphones



Dr. Mohammad
Arif Ul Alam

Invited Speakers of TENSYP 2020 [Technical Tracks]

Invited Talks in TENSYP2020

Multimedia Signal Processing

1. Tumor Budding Detection in Colorectal Cancer from Whole-Slide Pathology Images, *Dr. Mohammad Faizal Ahmad Fauzi*, Assoc Professor, Faculty of Engineering, Multimedia University, Malaysia
2. A Bridge Between Speech and Image Processing: Image Quality Assessment, *Dr. Tetsuya Shimamura*, Professor, GSSE, Saitama University, Japan
3. Estimation of English proficiency from visual information, *Dr. Akinori Ito*, Professor, Graduate School of Engineering, Tohoku University
4. Trends in Computer-Aided Diagnosis Using Deep Learning, *Dr. Amlan Chakrabarti*, Professor, A.K. Choudhury School of IT, University of Calcutta, India

AI, IOT, Computer Vision, and Robotics

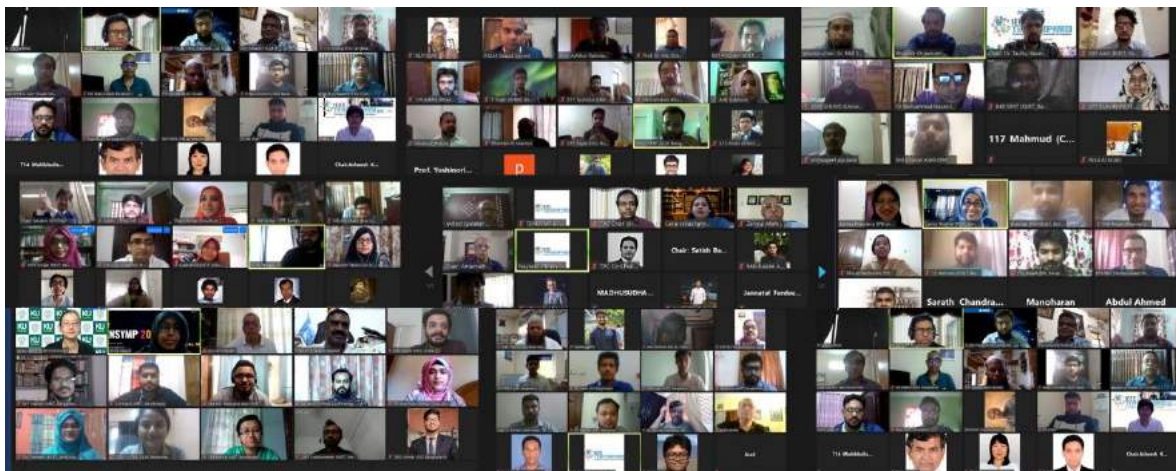
1. Heart Rate Measurement from Video and Its Applications, *Dr. Yoshinori Kuno*, Professor, Saitama University, Japan
2. Super-humanoid Healthcare Robotics, *Dr. Mohammad Arif Ul Alam*, Asst. Professor, Computer Science, University of Massachusetts Lowell, USA
3. IoT in COVID-19 Post-pandemic Life, *Dr. Khan A Wahid*, Professor, Department of ECE, University of Saskatchewan, Canada
4. Enhancement of Particle Swarm Optimization Algorithm for Increasing Performance of Multiple Pursuer Drones in Handling Attacks from Evader Drone Swarm, *Dr. Wisnu Jatmiko*, Professor, Faculty of Computer Science, University of Indonesia, Indonesia

Biomedical Engineering, Bioinformatics and EM

1. Advanced Nano-sensors and IOT-based Devices for U-health Care Applications, *Dr. V.R. Singh*, FIEEE, NPL, New Delhi and Director, PDMEI and Advisor, PDM University, Bahadurgarh
2. Classification for Covid-19 Infected Lung Using Chest Radiography Images, *Dr. Noliza Mohd Noor*, Professor, UTM FoTI, UTM, Kuala Lumpur Campus, Malaysia
3. The impact of innovative multimodal quantitative methods to control post-traumatic epilepsy, *Dr. Dominique Duncan*, Asst. Professor of Neurology, USCS NII, LONI, University of Southern California, USA
4. History of Electromagnetics, *Dr. Arokiaswami Alphones*, Professor, School of EEE, Nanyang Technological University, Singapore

Humanitarian Technology

1. Can we trust "black box" AI technologies to help society?", *Dr. Greg Adamson*, Assoc. Professor, M. SoE, University of Melbourne, Australia & Past President, IEEE SSIT
2. The Role of the Privileged in the Development of Health Technologies for Medically Underserved Populations, *Dr. Charmayne Mary Lee Hughes*, Health Equity Institute Professor of Kinesiology, San Francisco State University, USA
3. mHealth4Afrika– Strengthening Healthcare Delivery in Resource Constrained Environments, *Prof Paul Cunningham* Ex Director, IST-Africa Institute, Ireland; Director-Elect, IEEE Division VI; Past Chair, IEEE HAC; Past President, VP Conferences, and DL (2015 - Present), IEEE SSIT



Glimpses of nine different virtual technical sessions

Tutorial, Special Session and SPS Chapters' Meetup in TENSYP2020

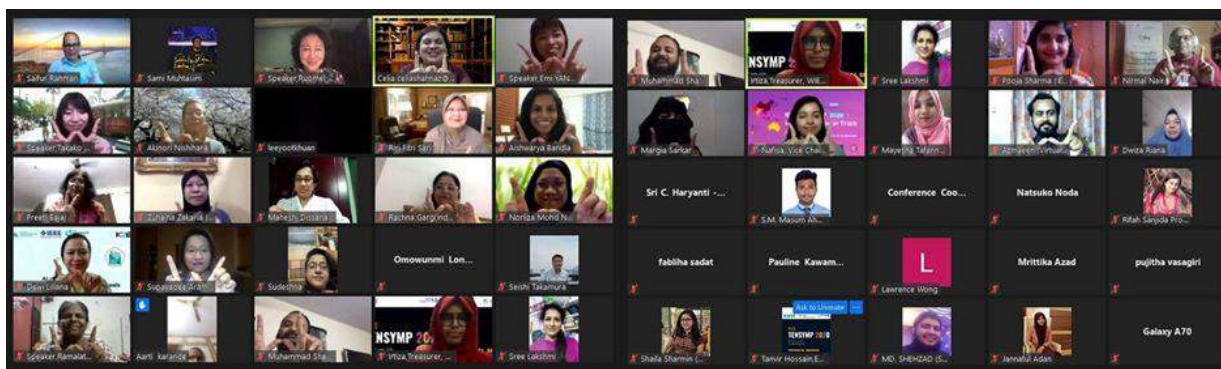
A tutorial session was held on the last day of TENSYP2020 during 11:30 AM to 1:30 PM (GMT +6) titled "Machine Learning- Industry Perspective and Applications". The tutorial was conducted by Snehasis Banerjee, a scientist from TCS Research and Innovation, Kolkata, India. A special session was also organized on "Recent Advances in Wireless Body Area Networks". In the IEEE SPS Chapters' Meetup, Chapter Chairs from Australia, India and Bangladesh presented their best practices apart from a keynote by Dr. Wing-Kin (Ken) Ma and membership initiatives by Prof. KVS Hari, SPS Membership VP.

WIE and WePower Track in TENSYP2020

WIE AG Bangladesh Section in conjunction with IEEE Bangladesh Section arranged a WIE and WePower track in IEEE TENSYP2020 on the second day (6 June, 2020). A two-hour long session was attended by speakers and participants from over 10 countries. The speakers were:

- Dr. Ruomei Li, Chair of IEEE PES Women in Power
- Dr. Ramalatha Marimuthu, Prof, Dept. of ECE, KCT, India; IEEE WIE Chair (2011-2012)
- Dr. Takako Hashimoto, Vice President of Chiba University of Commerce; IEEE WIE Chair (2015 -2016) & 2019-2020 IEEE Region 10 Secretary
- Emi Yano, Ricoh IT Solutions and 2019-2020 Chair of IEEE R10 WIE
- Dr. Celia Shahnaz, Chair, IEEE Bangladesh Section & Chair of IEEE R10 WIE 2016

Dr. Ramalatha Marimuthu provided a presentation on “Women Empowerment and COVID19”. She explained with some examples the need for women empowerment during this pandemic. She stressed that women should be involved in all COVID19 response planning and decision-making. Dr. Takako Hashimoto delivered her presentation on “Women in Professional Development- Research and Career”. She shared some research areas, e.g., energy management, distributed energy, smart city, AI for analyzing electricity consumption, analyzing people’s reaction during COVID 19, and balance between work and raising kids. Dr. Ruomei Li gave a presentation on “Women in Power Lights the Future”. She discussed women empowerment, various strengths and weaknesses of women, mission and vision of Women in Power (WiP) and some opportunities that WiP can provide. Emi Yano presented on ‘What is your leadership? Towards the new normal’. She explained some leadership criteria, e.g. accepting various values and maintaining good relationships. She discussed on making mistakes and taking actions.



WIE and WePower Session Participants. Details available on <http://tensymp2020.com/wie & wePower track.php>

Dr. Celia Shahnaz, discussed how she and WIE team in Bangladesh are working on STEM education, recruitment & internship opportunities, professional development and retention. She shared several good practices such as outreach programs in schools and colleges, internship, industrial visits, engaging power and energy companies, and bringing women role models. Nafisa Tasnim gave a short presentation on the initiatives taken by WIE AG Bangladesh Section during the COVID-19 pandemic. After the speakers finished their presentations, the attendees from diversified backgrounds were given an open floor to share their thoughts.

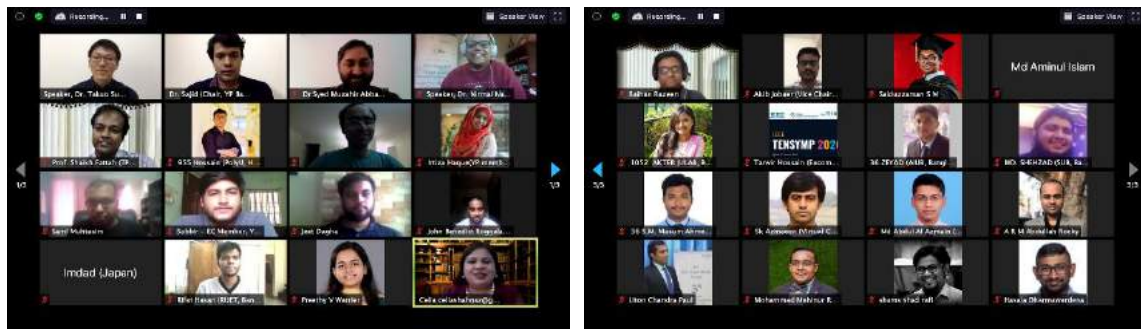
Dr. Akinori Nishihara emphasized the gender issues and the importance of diversity to make progress and innovation. He shared his thoughts that only a combination of both male and female persons can bring more progress and expects more women to join IEEE activities. Dr. Saifur Rahman made a suggestion to archive all suggestions made by the speakers in one place like a blog which can help in counseling young girls. Professor Lawrence Wong suggested setting up an advisory mentorship program for younger generation to set their goals. Pauline N. Kawamoto from Japan Council WIE; Professor Riri Fitri Sari from WIE Indonesia Section; Natsuko Noda, WIE AG Chair Japan; Dr. Aishwarya Bandla, WIE AG Chair Singapore; Maheshi Dissanayake from WIE AG Chair Sri Lanka; Preeti Bajaj from India; Prof. Norliza Mohd Noor from Malaysia; Rachna Garg from India; Aarti Karande from India; Zuhaina Zakaria from Malaysia; Sudeshna Choudhury from India; Dr. Supavadee Aramvith from Thailand and many others shared their experiences and suggestions about encouraging and mentoring students and young engineers. The session ended with sharing of best practices of different WIE AGs and commending the organizers for pulling out such an interactive track. The session was attended by a total of 53 participants.

Young Professionals (YP) Track in TENSYP2020

The YP Track was organized by YP Bangladesh and Bangladesh Section at TENSYP2020 on the 6th June 2020. The invited speakers of this track were:

- Dr. Takuo Suzuki, Aichi Prefectural Univ., Japan & Chair, R10 YP Committee
- Dr. Nirmal Nair, University of Auckland, NZ & Chair, R10 Prof. Activities Committee

Dr. Suzuki spoke on "Value and Benefits of IEEE Region 10 YP Program". He explained the value of YP Meetup Programs and importance of recognizing communication styles across different cultures while communicating. Dr. Nair talked about "Students to YP– Effectively adapting to the transition: Volunteer's Journey through IEEE: My Professional 'Home'". He explained the transition to an IEEE leader and emphasized on the power of listening.



YP Track Participants with track details available on http://tensymp2020.com/yp_track.php

Dr. Celia Shahnaz emphasized the importance of research and technical activities in industry in addition to academics. Dr. Syed Muzahir Abbas, (ANZ YP Coordinator), shared his initiative for internship to promote industry-academia relationship. Irtiza Hoque (Grameen Phone) commented on how in Bangladesh, industries lack the contribution to research fields. John Benedict Boggala (SA R10 YP Coordinator) told about his volunteering experience in YP and how it benefited his career. Jeet Dagha (IEEE Bombay YP Coordinator) explained his plan to connect the YP chairs of all 12 sections of India. A R M Abdullah Rocky (Former YP Bangladesh Chair) spoke about his initiatives to include industry professionals and entrepreneurs in YP activities. Among many others, Upal Mahbub (former YP Bangladesh Chair) from USA; Hossain from Hong Kong Poly; Azfar Adib from Canada; Preethy Warriar from Madras; Hasala Dharmawardena from USA and Imdad Rimon from Japan joined the event and expressed their gratitude.

Dr. Shaikh Anowarul Fattah (Advisor, YP AG Bangladesh) told about the challenges of early career and how YP can serve as a platform to mitigate these challenges. He said that the industry YP members need to showcase the importance of IEEE in their profession to get support and positive feedback. Finally, Dr. Sajid Muhaimin Choudhury (Chair, YP AG Bangladesh) shared activities and upcoming events of the YP AG Bangladesh. There were 45 participants in the session from home and abroad.

Student Activity Committee (SAC) Track in TENSYP2020

IEEE Bangladesh Section Student Activity Committee organized a SAC Track at the IEEE TENSYP2020 on the 3rd day (7th June 2020) during 2:00-4:00 PM (GMT+6) for student authors and participants of this conference. The objective of this track was to introduce various student-related opportunities available in IEEE. The speakers were:

- Dr. Elmer P. Dadios, Chair, IEEE R10 Awards and Recognition Committee
- Dr. Huynh Thi Thanh Binh, Chair, IEEE R10 SAC
- Dr. Saaveethya Sivakumar, Student Representative, IEEE R10
- Parkash Lohana, Chair of IEEE R10 MD Committee

In her welcome speech, Dr. Celia Shahnaz unveiled the secrets behind the consistency in growth and retention of student members in the Bangladesh Section. Dr. Elmer P. Dadios gave a talk on "IEEE R10 Awards and Recognition Program" and encouraged the students to apply for R10 awards to get recognition of their good work. Dr. Saaveethya Sivakumar presented her talk on "Perks of Being a Student Member of IEEE" and explained the benefits of joining IEEE and various ways of engagement in IEEE. Dr. Huynh Thi Thanh Binh, delivered her talk

on “2020 IEEE R10 Student Activities” and highlighted numerous impactful activities in IEEE R10. Parkash Lohana presented his talk on the membership development and retention process. Finally, Student Activity Coordinator of Bangladesh Section, Abul Al Arabi presented the featured student activities. A total of 54 participants from all over the world participated in the SAC Track.



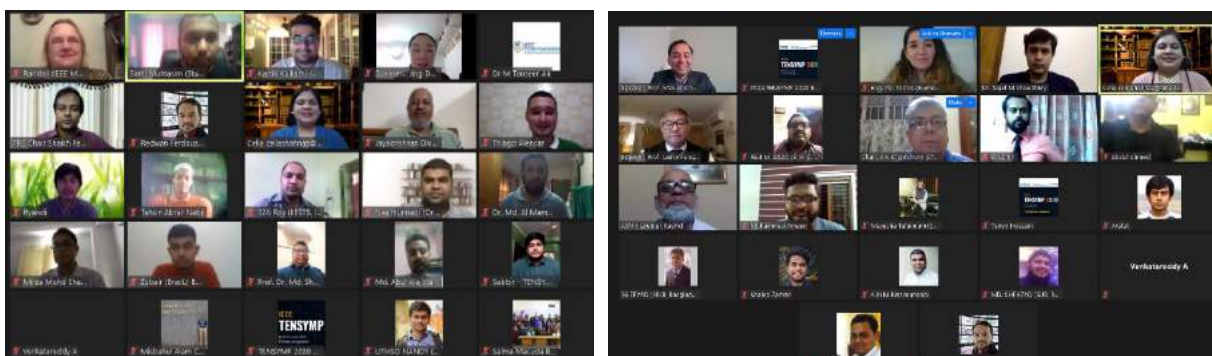
Student Activity Track Presentation and Participants http://tensymp2020.com/sac_track.php

Humanitarian Activity Committee (HAC) Track in TENSYP2020

IEEE Bangladesh Section Humanitarian Activity Committee hosted a HAC Track at the IEEE TENSYP2020 on the third day (7th June 2020) at 8:30 am (GMT+6). The speakers were:

- Mary Ellen Randall, FIEEE, MGA Treasurer, MOVE Comm. Outreach Program Manager
- Kartik Kulkarni, Chair, IEEE Humanitarian Activities Committee
- Dr. Jing Dong, Assoc. Prof., NLPR, CASIA, China & Chair, R10 HTC
- Sampathkumar Veeraraghavan, Chair, IEEE SIGHT

Prof. Celia Shahnaz, Chair of Women in SIGHT working group, delivered a welcome speech and moderated the entire session. Mary Ellen delivered a keynote talk on MOVE activities and elaborated the detailed process of involvement with such activities. Kartik Kulkarni presented an introduction to IEEE HAC followed by the importance of measurement of social impacts in HT projects. Dr. Jing Dong described Tech4Good and Tech4Humanity and addressed the challenges and opportunities of HTA Projects in the age of artificial intelligence. Sampathkumar Veeraraghavan joined in the evening and presented the SIGHT activities during this COVID-19 pandemic and explained possible ways to build collaboration with IEEE societies. Dr. Shaikh Fattah, Education Chair of IEEE HAC (2018-2020) shared the importance of HAC education online modules. A total of 84 participants from all over the world participated in the HAC Track.



Left: Humanitarian Activity Track. Details on http://tensymp2020.com/hac_track.php
 Right: Industry Academia Collaboration Track. Details on http://tensymp2020.com/collaboration_track.php

Industry Academia Collaboration Track in TENSYP2020

The industry academia collaboration track was organized on the first day at 5:40 PM (GMT+6) at TENSYP2020 by IEEE Bangladesh Section. The session was moderated by S.K. Chowdhury, Chair, IEEE Kolkata Section, India. The invited speakers were:

- Dr. Maud H. Chowdhury, Prof. & Assoc. Dean, CSEE, U of Missouri Kansas City, USA
- Pia Torres, Chair, YP Argentina, IEEE IAS Member-at-Large and DL
- Dr. Lance Chun Che Fung, Emeritus Professor, Murdoch Univ, Australia; Chair, R10 EAC

Pia Torres gave a talk on "Professional challenges in the industry 4.0". She explained the strategy of coping with this new era with a boom of entrepreneur ecosystems focusing on service rather than product. She discussed the process of talent transformation to face industry 4.0. Dr. Lance Fung discussed "Life-long Learning for Sustainable Development-IEEE Educational Activities in the Asia Pacific Region". He presented various delivery modes of IEEE educational activities, e.g. IEEE learning platform, distance learning, Tech Talk and EPICS in IEEE. Dr. Maud Chowdhury explained "Programmatic Reform and Academic Innovation for the Next Generation Engineering and IT Education and Research in Beyond Von Neumann and Post Binary Era". He emphasized on reimagining STEM Education from industry academia collaboration perspective based on mutual discussions between the two beneficiaries. A good number of participants from both the industry and academia joined the event and participated in the Q&A session. Among others, Dr. A. B. M. Harun-Ur-Rashid, Professor, BUET and Dr. Shaikh Fattah, Professor, BUET were present. Dr. Celia Shahnaz concluded the session with an expectation to build relationships between industry and academia of Bangladesh by solving more industrial problems engaging our students.

Acknowledgements

For information regarding website links, videos and photographs:

Raihan Ur Rashid, Secretary, IEEE Bangladesh Section

S.M. Saiduzzaman, Newsletter Editor, IEEE Bangladesh Section

Sk Azmaeen Bin-Amir, Virtual Conference Management Chair

Conference Secretaries: Shahriar Rifat, AQM Sazzad Sayyed, Dipayan Saha, A. Rakib Hossain

For information regarding special track reports:

Nafisa Tasnim, Vice-Chair, WIE AG Bangladesh Section

Dr. Sajid Muhaimin Choudhury, Chair, YP AG Bangladesh

Abul Al Arabi, Student Activity Coordinator of IEEE Bangladesh Section

ANM Nasimunnabi, Humanitarian Activity Coordinator of IEEE Bangladesh Section

Irtiza Haque, Treasurer, WIE AG Bangladesh Section

Maruful Hasan Sabbir, Excom Member, YP AG Bangladesh

How to Make a Virtual Conference Like a Face-to-Face Conference?

Written by: Shaikh A. Fattah, Technical Program Chair, IEEE TENSYP2020

Organizing a full virtual conference is a very difficult task but it is very much essential nowadays considering the global COVID-19 pandemic. I had the opportunity to join some recent virtual technical conferences. Moreover, as Technical Program Chair of IEEE TENSYP2020, I have gathered some real experience which has inspired me to share for the benefit of future conference organizers.

Two major aspects of a Face-to-Face (F2F) conference are publication and networking. If the objective of a conference is set in a way that it will keep the video presentations for some time to watch and an option for getting answers to questions via email, will you treat it as an equivalent to a face-to-face conference? It may be a temporary solution, especially during this global pandemic, but it cannot give a participant the feeling of a F2F conference. Publishing articles along with video presentations and option for online discussion, is an established method of archival. However, in my opinion, if a conference cannot be delayed or postponed, it needs to be organized in such a way, that the participants can get the feel of an actual F2F conference. The term “virtual” clearly grows an expectation of “virtual reality”, that is a simulated environment to give a feeling of a real F2F conference. In order to meet such expectations, tremendous cooperation is required from organizers, authors, session chairs, presenters, speakers and guests/participants.

Increased Participation

Number of participants in a technical session of a virtual conference is expected to be more than that of regular F2F conference. Possible reasons are:

- Ease of joining a virtual technical session from a remote location (no need to travel)
- Ease of moving between different parallel sessions (no need to walk or feel shy)
- Ease of joining multiple sessions at a time (with multiple devices or using special way)
- All co-authors of a paper and their supervisors, friends, colleagues, family members can easily join (if access control is not very strict)
- Sometimes, it is also possible to join in parallel to the regular works (time-sharing)
- No need to dedicate the whole day (possible join whenever you want)
- No need to even interact (possible to mute and just listen)

There is a tendency of frequent moving from one virtual room to other rooms as it is very easy via online. It allows a participant high degree of freedom in listening to the desired presentations. As a result of frequent moving, the name of a same participant may be found in various rooms.

Virtual Conference Coordination

Generally, in a virtual conference, authors are required to provide the recorded video presentation and they may or may not be asked to be present online during the live presentation session (if any). Organizers allocate hosts to play the video using an online platform like Zoom or Webex. As a result of the pandemic, virtual conference hosts may also be working from various remote locations. For a big conference there will be many parallel sessions run by many hosts. Coordinating large number of hosts operating remotely from various locations is very important. Generally speaking, instant decisions are needed during the technical conference. Hence, the hosts need to be closely involved with the conference or at least get detailed instructions for the conduct of the conference.

A central coordination system is always very helpful where Virtual Conference Management Chairs continuously monitor the virtual rooms and take actions as demanded. If a room is completely

collapsed, it can be run from the central coordination room by the Virtual Conference Management Chairs. The backup of the virtual platform is also necessary and the hosts must be trained in that backup platform. This type of multi-level backups is necessary for the smooth uninterrupted operation. In TENSYP2020, we had kept fifth layer backups.

Virtual Technical Session Room Management

One possible format to manage a virtual technical session room is: two Session Chairs, two hosts. In TENSYP2020, along with the hosts, a PhD holder Room Lead volunteer was allocated. It helps in managing the session, especially when a Session Chair is late/absent in a room. Some other factors regarding virtual technical session management are presented below:

- Hosts need to be connected amongst themselves via phone and online medium. Room hosts must continuously update the present/absent status of the authors and Session Chairs to the Central Coordination Room to be able to take immediate action. If needed, re-scheduling may also be done.
- Participants in a room can be asked to write name and affiliation on the chat box. Display name on the platform needs to be explainable and easily understandable.
- In order to confirm the attendance of authors in a technical session, an online attendance sheet can be maintained during the session and confirmed by the Session Chairs.
- Presenters/speakers should be allowed to join the virtual room before the starting of a session to test the connectivity. This allows in many cases a very friendly live discussion prior to a session. In some cases, extended period can be allowed after the session to complete the discussions among the participants and speakers/Session Chairs.
- Several precautions are required to avoid unwanted disturbances during a presentation, such as weird annotations, sounds and videos.
- Conference proceedings may be kept in some drive from where authenticated users can download it using password. Session Chairs need the full/partial access of the proceedings.
- Individual paper evaluation needs to be collected through online from the Session Chairs with help of room host.
- Poll option can be kept to make the session interactive.

Live Session versus On-Demand Recording

Most of the authors prefer to play recorded video presentation as this is very well-planned and well-delivered. It also helps participants to have a timely presentation in a compact manner with all necessary information. One possibility is to keep the videos as 'On-demand' for participants instead of arranging sessions. Some relevant issues are discussed below:

- There are several uncertainties in case of a live presentation, such as connectivity, power failure, weather conditions, time zones, operational delay (file opening, sharing, playing other files), and operational inefficiency (to setup optimal resolution, sound quality, display options in online platform).
- Recording via Zoom or some other software is found to be very comprehensive for users. Microsoft PowerPoint with embedded voice narration is also widely used.
- However, Q/A session are preferred to be carried out live if possible. Whoever is joining live can have additional discussion with Session Chairs. Moreover, Session Chairs' comments are also valuable after the presentation. Answers can also be given by email or online or writing on the Chat box and the Session Chair can read them.
- Generally during the presentation, all are requested to write questions in the Chat box. Many Q/A and discussions can be ongoing in the Chat box.
- Participants can write their name and paper ID (if applicable) in the live display on his/her identity area, which helps to interact.

- All the sessions need to be recorded and preserved.
- On-demand mode is very helpful as participants can manage time and can listen to various sessions as per their interest. The expectation is to get real virtual experience like a F2F conference; on-demand option may not satisfy this expectation.

Registration in Virtual Conference

In virtual conferences, considering that the cost of organizing the conference is reduced, participation for general attendees is made free but authors generally need to pay the registration fees. However, making completely free to attend a technical conference is criticized by many organizers considering the future problem in getting paid participants in F2F conference. In TENSYP2020, the registration fees were reduced to 60% for authors and for general participants, it was made free. For the purpose of security, a registration process is required for entering into a virtual technical room, which helps to track the details of a person entering in each room. It helps later for attendee analytics. However, if the entry process is made very complicated, many users may face problems.

Process of Virtual Recognition

In each session, in order to recognize the contribution of the Speakers, Session Chairs or Authors, if no action is taken, it may look bad. Presenting certificates with claps are the normal norm of showing gratitude in F2F conference. As an alternative, organizers can spend some time in mentioning few words of gratitude and also display the electronic certificates. Microphone can be turned on and all can give a clap. In this way, there will be a brief engaging period for all at the end. Award ceremony can also be arranged in a similar fashion. After declaring the award, the winner may be asked to raise hand and all can give clap while the certificate is being displayed.

Budget

Sometimes people ask why to take registration fees, as there is no cost. Organizers need to carefully consider all possible costs of a virtual conference. In a broad sense, it may require all costs except venue, food and speaker travel/accommodation. Other costs like logistics, kits, publicity, publication and web are required. At the same time, organizers may have to remember that the chances of getting sponsors in this situation is also very less.

One major cost is virtual platform purchase and management. In this format, it is also necessary to buy several required electronic equipment for uninterrupted service, like dedicated laptops, mouse, hard drive, headphones, pen drive, power bank, modem and SIM (in many cases for internet), data cost, drive storage, etc. For every moment, at least two hosts are required. If the conference is for the whole day, four persons are required. If you have 10 parallel sessions in each day of a three-day conference, imagine the involvement of number of persons and cost. In TENSYP 2020, we had eight parallel sessions for three full days (13 hours/day). We had around 40 total hosts working from remote locations. The job of hosting is very monotonous but needs severe attention. In many cases, this is to be done by expert professionals rather than volunteers.

Networking Opportunities

Networking rooms are required where participants can chat with each other (hosts are required). In F2F conference, two or few participants may stand or sit together at a free space to discuss particular issues. This type of flexibility can also be created and discussed below:

- Whenever needed, small breakout rooms can be opened. Break out rooms may also help to organize various types of committee meetings.

- Tea break rooms can be made where participants are encouraged to join and gossip. Refreshment is very essential in between technical sessions. Gossiping online is getting popularity day by day and people are getting more accustomed with it.
- During lunch/dinner break, based on request, parallel breakout rooms with small number of participants can be arranged. People from same (or nearby) time zone can enjoy this benefit. Social events (if needed) can also be organized with live presentations.
- Promotional booth for sponsors can also be made, they may take a separate room (in the name of a company) or small breakout rooms. Interested participants can visit that virtual room to know more details.

Mode of Presentation and Maintaining the Quality

Pre-recorded video is the most common mode of presentation. Following issues must be checked for video presentation:

- Video quality of each presentation needs to be thoroughly checked. In many cases, poor quality videos/audios can be found. You may either request the author to resend or may use some software to enhance the audio/video quality.
- Different speakers are recording the presentation in different environments and audience has to listen to all of these various types of presentations; sometimes it is very annoying. Some sort of volume normalization is always very helpful; unless it destroys the original quality.
- Clear instruction about the required video presentation must be provided. For example, the duration, size, possible software to be used, and video file format. In TENSYP2020, size: up to 100 MB; format: MP4; duration: 12 min; recording method: Zoom or Microsoft PowerPoint with narration.

Attendee Analytics

Number of attendees in a technical session or overall for the conference, is one of the major criteria to evaluate the performance of a conference. Although there are possibilities of multiple logins by a same user, Virtual Room Log can help a lot to analyze the attendance characteristics. Following data can be obtained:

- Duration of presence of a participant in a technical session or in whole conference
- Number of participants in a room and in the whole conference
- Frequency of entering/leaving by participants in a room

Based on the above statistics, if the technical area of the room is taken in consideration, one can conclude about:

- The trends of research interest by the participants
- The quality of presentation in a room.

If only registered attendees are allowed to join a virtual technical room, from the additional data of the registered participants, more interesting facts can be analyzed. For example:

- Area of interest of IEEE delegates from a particular IEEE region
- Variation of interest between student member and non-student member.

Innovative ideas and use of technologies can help organizers to make a virtual conference, “truly virtual”. I hope the global pandemic will be over soon but the constant effort of many organizers all over the world can establish a precise standard of organizing virtual conference, which may help in future to make some conferences “hybrid”, if necessary.



2021-2022 R10 DIRECTOR- ELECT CANDIDATES



2. 2021-2022 REGION 10 DIRECTOR-ELECT CANDIDATES

SUPAVADEE ARAMVITH



Candidate for 2021-2022 IEEE Region 10 Director-Elect



Walk with me and lead Region 10 together into the new normal era.

I have been trusted by Region 10 Directors to serve in the Region 10 EXCOM for 8 years. This allows me to comprehend the region and its diverse nature.

If elected as Region 10 Director-Elect, I will commit myself to bring in my globalized experiences with transformational leadership to the "ONE" region 10 vision where collaborative partnerships take place for the mutual benefits toward sustainable growth of the region.

IEEE Elections | Vote for me
From Aug 15 to Oct 1 12:00PM EDT USA
ieee.org/about/corporate/election/

MY PRIORITIES ARE:

Work closely with IEEE major boards and committees for better value added and localized membership model, products, and services that benefit members.

Synergize complementary strengths and collective efforts of sections, chapters, and volunteers through the new collaborative platform and grant.

"Groom to grow" - Develop programs to empower student chapters, YP, WIE to become the next generation leaders.

Support the impactful implementation of humanitarian projects, educational activities, industry engagement through quadruple helix framework.

Allocate resources to sections/chapters mentorship and revitalized plan.

Ensure inclusivity and diversity in Region 10 governance.

IEEE Activities (Selected)

Global IEEE Committees & Major Boards Experiences

1. Voting member, IEEE Educational Activities Board (EAB) ('15, '18-20)
2. IEEE Consumer Electronics Society Board of Governors member ('19-20)
3. Chair, EAB Pre University Education Coordination Committee ('18-19)
4. Chair, EAB Section Education Outreach Committee ('20)
5. Member, IEEE New Initiatives Committee ('19-20)
6. Communications Chair, IEEE Humanitarian Activities Committee ('19-20)
7. Member, IEEE Medal for Environment & Safety Technologies Committee ('18-20)
8. Member, IEEE Awards Board Publicity & Presentation Committee ('20)
9. Member, EAB EPICS in IEEE Committee, ('15-17)
10. Member, IEEE WIE Committee ('15)

Region 10 Executive Committee Experiences

1. Region 10 Section & Chapter Committee Chair ('19-20)
2. Region 10 Women in Engineering Coordinator ('15)
3. Region 10 Educational Activities Coordinator ('11-14, '16)

BIOGRAPHY

Supavadee Aramvith has been an active IEEE member and volunteer for 25 years. She has served in several leadership roles across the IEEE. She recently won 2019 MGA Leadership Award for her outstanding leadership and contributions on educational activities for IEEE Asia Pacific Region. Currently, she is Associate Professor in Electrical Engineering, Chulalongkorn university, where she works for 19 years with specialization in video signal processing. Her education background includes Bachelor of Science (First class honors) in Computer Science, Mahidol University, Thailand, and Master's and Ph.D. in Electrical Engineering of the University of Washington, Seattle, USA.

Disclaimer: The opinions expressed herein are the opinions of the author and not necessarily the opinions of IEEE.



<http://www.supavadee.net>

Contact me: supava@ieee.org

**SUPAVADEE
ARAMVITH**

for 2021-2022 IEEE Region 10 Director-Elect





ChunChe "Lance" Fung

Candidate for 2021-22 Director-Elect

IEEE Region 10 (Asia-Pacific)



ChunChe "Lance" Fung

*Emeritus Professor
Murdoch University*

*IEEE Chair, R10
Educational Activities
Committee*

*Past Chair, IEEE New
Initiatives Committee*

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[facebook.com/Lancefcc](https://www.facebook.com/Lancefcc)



*Serving and
leading R10
require
dedication,
commitment,
time, experience
and passion.
I am prepared for
the Call.
Your support is
greatly
appreciated!*

Statement

I will dedicate my time, professional experience and practical knowledge to:

- **Support innovative projects** to address local issues in alignment with IEEE Mission, Vision and Strategic Plan
- Actively **represent the Voices and Concerns** from R10 in IEEE Boards and Committees
- Develop **strategies to improve the Values, Benefits and Experience** for R10 memberships
- Encourage **R10 volunteers to participate in decision making**, and **public recognition** of their contributions
- Establish and support **Collaborative Schemes** between Students, YP, WIE, High-grade members and members through networking and joint projects

Biography

- Marine Radio and Electronic Officer, trained and worked in Hong Kong (1974-1978)
- B.Sc. (1st Class Hon.), M.Eng. from the University of Wales, UWIST (1981, 1982)
- PhD Degree awarded by the University of Western Australia (1994)
- Thesis supervised by - *Late Professor Kit Po Wong*, on AI and Power System Engineering
- Lecturer, Singapore Polytechnic (1982-1988)
- Senior Lecturer, Curtin University (1989-2003)
- Associate Professor, Murdoch University (2003-2015)
- Emeritus Professor, Murdoch University (2015 – Present)
- Doctoral theses supervision to completion: 31
- Referred publications in book chapters, journals, and conference proceedings: 332
- Contributions can be viewed at IEEE Xplore, ResearchGate, Google Scholars... etc.
- Motto on Education: **"Learning has no Boundary"**
- Professional Profile: <http://profiles.murdoch.edu.au/myprofile/lance-fung/>

IEEE Activities

- | | |
|--|---|
| IEEE Region10 Education Activities Committee
(Chair 2019-20) | IEEE Region 10 Conference Quality and Management Committee (Chair 2018) |
| IEEE EAB Section Education Outreach Committee
(Member 2019-20) | IEEE Conference Branding Ad-Hoc Committee (Member 2017) |
| IEEE New Initiatives Committee
(Chair 2019, Past-Chair 2020, Member 2014-18) | IEEE Conference Quality Policies Ad Hoc Committee (Member 2017) |
| IEEE Conference Quality Committee
(Chair 2018, Past-Chair 2019-20, Member 2015-17) | IEEE Systems, Man and Cybernetics Society Board of Governors, (Member, 2010-15) |
| IEEE Technical Program and Integrity Committee
(Chair 2017-18, Past Chair 2019, Member 2015-16) | IEEE WA Section
(Chair 2001-02, 2005-06, 2013) |
| IEEE Conference Finance Committee
(Member 2019-20) | IEEE Australia Council
(Chair, 2013-14) |
| IEEE Ad-hoc Committee on Valid Science Content
(Member 2020) | Student Counsellor: Curtin and Murdoch University |
| IEEE Strategy and Alignment Committee
(Member 2019) | |

Awards

- 2015 IEEE Region 10 Outstanding Volunteer Award
- 2000 IEEE Third Millennium Medal



The opinions expressed are those of the author and not necessarily the opinions of the IEEE.

Norliza Noor

IEEE R10 Director-Elect Candidate 2021-2022



Norliza M. Noor

2019-2020 IEEE EAB - CPC

2020 IEEE HAC Event Evaluation Committee

2019-2020 IEEE Senior Member Review Panel

2017 IEEE EAB SERC

2017 2018 IEEE MBPAC

2015-2016 IEEE MGA GUOS

2015-2016 IEEE R10 IBS

2013-2014 IEEE Malaysia Section Chair

norliza@utm.my / n.m.noor@ieee.org

IEEE Elections

Vote for me

ieee.org/about/corporate/election/

Voting period: 15th Aug to 1st Oct 2020

For more information



<http://norlizanoor.ieeemy.org>

Thank you for your vote!

Mission Statement

- Increase the sense of belonging to IEEE by broadening activities and engaging members
- Bring value to IEEE membership – empower the region and sections to create extra value
- Increase volunteering opportunities for members
- Increase awareness towards IEEE humanitarian activities

Position statement

- If I am elected as the Region 10 Director-Elect, my emphasis will be on membership engagement, growth, and value addition.
- I will increase member engagement by developing and managing R10 activities that will bring greater impact to IEEE members. These activities are an important factor in membership growth.
- I plan to increase the number of industry initiatives activities that will be organized in geographically distributed sections so that many members are able to participate with minimum traveling cost.

IEEE Accomplishments

Societies: Founding Chair for IEEE Signal Processing Society (SPS) Malaysia Chapter and achieved membership growth. Created the Image Processing, Image Analysis and Real Time Imaging (IPIARTI) Symposium which is a free event to SPS members. IPIARTI has been organised yearly since 2010 till present with an average of 100 participants (mainly student members). Led and won the bid for ICIP2023 so that it will be hosted by SPS Malaysia Section in Kuala Lumpur. One of the committee members when EMBS Malaysia Chapter was founded.

Section: Member/Volunteer for more than 30 years in the Malaysia Section serving almost all Section positions including Chair in 2013-2014. Highest membership growth in 2013-2014, created the IEEE National Final Year Project Competition for undergraduate student in 2013 and has since been organised yearly with an average 250 participants. Recipient of 2004 Best Volunteer Award.

Region: IBS Coordinator by encouraging Sections to create new members benefit for members in their sections.

Briefly about myself

Norliza M Noor is a Professor in Razak Faculty of Technology and Informatics, Universiti Teknologi Malaysia (UTM), Kuala Lumpur Campus. She received her B.Sc. in Electrical Engineering from Texas Tech University in Lubbock, Texas, and Master (by research) and PhD both in Electrical Engineering from UTM. Norliza is a senior member of IEEE since 2008. She has been a member for more than 32 years starting from 1983 as a student member while studying in USA. In 1998-2001, she had held several key positions in IEEE Malaysia Section committee as honorary secretary and treasurer. She was the founding chapter chair for IEEE Signal Processing Society Malaysia Chapter in 2002 and she held the position till 2006. She was elected as the IEEE Malaysia Section Chair for two years 2013-2014. She is an active IEEE volunteer and held key position in IEEE Signal Processing Society Malaysia Chapter and IEEE Engineering Medicine and Biology Society Malaysia Chapter till now. She is also an active member of IEEE Women in Engineering WIE Affinity group Malaysia Chapter and IEEE SIGHT and HAC - My-SIGHT for Rural Technology group.

The opinions expressed are those of the author and not necessarily the opinions of the IEEE.



CELIA SHAHNAZ



Candidate for
2021-22 IEEE R10
Director-Elect/Delegate-Elect

**LET'S WORK TOGETHER
TO BUILD IEEE REGION 10
MORE VISIBLE WORLDWIDE**

Celia Shahnaz, SMIEEE, Fellow IEB, received Ph.D. degree from Concordia University, Canada and is currently a Professor, Department of EEE, BUET, Bangladesh since 2015.

She has published more than 150 international journal/conference papers. She is a recipient of the Canadian Commonwealth Scholarship/Fellowship and Bangladesh Academy of Science Gold Medal for her contribution in Science and Technology. Recently, her papers have received best paper awards in Biomedical Engineering tracks at TENCON 2017 and at IEEE WIECON-ECE 2016, in Humanitarian Challenge track at R10 HTC 2017.

She was the mentor of 1st/2nd prize winning projects in IEEE IAS CMD Contests (Robotics, Humanitarian) in 2017-2019, USA. She was the supervisor of 4th/5th rank winning teams in SPCUP competitions, ICASSP 2020 (Spain)/2015 (Australia). She has around 20 years of experience (more than 18 years as an IEEE volunteer) of leading impactful Technical, Professional, Educational, Industrial, Women Empowerment and Humanitarian Technology Projects at national/international levels.

CELIA SHAHNAZ

Professor, Department of EEE, BUET, Bangladesh
Chair, IEEE Bangladesh Section
Recipient of IEEE MGA and R10 Awards

Recent IEEE Accomplishments

- ✓ **As IEEE Bangladesh Section Chair**, applied and won 2018 MGA Outstanding Large Section Award, founded/co-founded four Society Chapters.
- ✓ **As Founder, IEEE WIECON-ECE 2015, Bangladesh**, co-organized four versions in India and Thailand.
- ✓ **As WIE Workshop Subcommittee Chair**, coordinated 25 WIE Workshops and Panels in R10, R9, R7, R8, R3, R5.
- ✓ **As PES WiP R10 representative**, contributed as a speaker, Panellist in the 1st IEEE PES WiP Conference; a brief Session Speaker in IEEE Sections Congress 2017.
- ✓ **As Communications Chair, IEEE SIGHT**, launched Humans of IEEE SIGHT. The first SIGHT Twitter Chat Session Organizer in 2019.
- ✓ **As R10 WIE Coordinator**, encouraged formation of 3 Section WIE AGs (mainland China, Thailand), 58 SB WIE AGs in R10 (35.10% increase in membership growth).

VOTE FOR ME
FOR A MORE VISIBLE IEEE REGION 10

17 August 2020 - 1 October 2020,
12:00 p.m. EDT USA/16:00 UTC



www.celiashahnaz.com

Thank you for your vote!

IEEE Accomplishments and Activities

(S'02-GSM'06-M'10-SM'16)

IEEE Activities:

▶ Committees/Boards

- 2020 Member, New Initiative Committee
- 2020 Chair, Women in SIGHT Working group
- 2020-22 Member, WISP Committee
- 2020 Member, PELS TC5
- 2020 Member, WIE SM Elevation Drive
- 2017-20, PES WiP R10 Representative
- 2017, 2019 Communications Chair, IEEE SIGHT
- 2019-20 Member, WIE WePower Subcommittee
- 2017-18 Chair, WIE Workshops Subcommittee

▶ Region

- 2016 R10 WIE Coordinator
- 2017-18, 2015 Member, R10 Subcommittees (WIE, HTA, Education)

▶ Section, Student branch (SB) and SB Chapters

- 2018-2020 Chair, Bangladesh Section (BDS)
- 2017 Vice-Chair (Activity), BDS
- 2010-2015 Chair, WIE BD AG
- 2012-2013 Chair, BDS MD
- 2014-2020 Coordinator, SIGHT FLASH
- 2016-2020 Advisor, WIE BDS, BUET SB WIE AGs
- 2018-2020 Advisor, BUET IAS, RAS and SPS (2019-20) SB Chapters

▶ Societies/Chapters

- 2020 Lead, PELS TC5 Webinar
- 2017-2020 Chair, SPS and IAS (2018-2020) BD
- 2018-2020 Vice-Chair, RAS and SSIT BD
- 2020 Chair, 2019 Vice-Chair, EMBS BD

▶ Conferences

- General Chair:** IEEE TENSYP 2020, IEEE WIECON-ECE 2019, 2018, 2016
- General Co-Chair:** IEEE R10 HTC, IEEE WIECON-ECE 2017
- Founder and General Chair:** IEEE SPICSCON 2019, IEEE PEEIACON 2019
- Founder and TPC Chair:** IEEE WIECON-ECE 2015, IEEE BECITHCON 2019, IEEE RAAIACON 2019

▶ Awards

- 2019 R10 Humanitarian Activities Outstanding Volunteer Award
- 2016 MGA Leadership Award
- 2015 WIE Inspiring Member Award
- 2013 R10 WIE Professional Volunteer Award

Statement

For diverse R10, my concentration will be to create an intensive relationship with local leadership of all organizational units (OUs), such as Councils, Sections/Subsections, WIE, YP, LM AGs, Chapters, SBs, and SB Society Chapters to enhance member engagement, technical skill development, membership growth, and retention in all OUs. If Elected, as R10 Director, my priorities will be:

Enhancing Visibility of R10 Volunteers: Launching IEEE R10 DAY Celebration and Humans of IEEE R10: to publish more R10 accomplishments in TA Spotlight, The Institute, IEEE Women in Engineering Magazine, etc.

Launching R10 Mentor and Mentee Program: Designing Members' need based activities involving multiple OUs/ Technical Society Chapters. Capacity building for more quality conference organization in R10, such as IEEE Society Flagship conferences.

Elevating value of WIE, YP, LM Programs: Introducing R10 WIE/YP/LM Distinguished Lecturer Programs and SM Elevation Drives to ensure their more presence in leadership.

Encouraging Industry-Academia Conclave: Promoting Corporate Membership development and creating opportunity for solving real life problems.

Incubating R10 humanitarian Projects to Product Design: Boosting Social Entrepreneurship.

For more information, Please visit: <http://www.celiashahnaz.com>

The opinions expressed are those of the author and not necessarily the opinions of the IEEE



R10 PERSONALITIES OF THE MONTH



3. R10 PERSONALITIES OF THE MONTH

R10 Personality of the Month – K.V.S. Hari

Bangalore Section

K.V.S. Hari has been an IEEE member for over 28 years and currently serves as the Vice President (VP)-Membership on the Board of Governors of the IEEE Signal Processing Society (SPS). He was the SPS Regional Director-at-Large of Region 10 (2018-2019) and member of the Membership Board (2018-2022). He has been a member of the SPTM-TC (2014-2019). He has served as a Chair of the SPS Bangalore Chapter (2005, 2011-2013).

During his term as the SPS Regional-Director-at-Large (RDAL) of R10, he triggered the creation of multiple student chapters of SPS which in turn triggered the increase in membership of IEEE in R10. As VP Membership of SPS, he is facilitating this growth of membership across all regions. As a member of the SPTM-TC, he has chaired their Educational activities and co-ordinated activities for student members across SPS. As a chair of the SPS chapter, activities related to students & industry professionals were organised.



Receiving a certificate from Prof Ali H Sayed, IEEE SPS President (2018-2019)

He has served as a Vice-Chair of Bangalore Section (2012-2013) and then as Chair of the IEEE Bangalore Section (2016). He was appointed as Chair of 2017 India Strategy Committee by the IEEE President to develop a strategy document for growth of IEEE in India. He has been a General Co-Chair, for 2016 IEEE International Conference on Advanced Networks and Telecommunication Systems (ANTS) organised by ComSoc. He was a member of SPCE-TC in ComSoc (2016-2018). He was a Co-Chair, IEEE Region 10's 50-years Celebrations and Region 10's Students, Young professionals, Women and Life members (SYWL) Congress in 2016.

He also served as the General Chair, IEEE International Conference on Electronics, Computing and Communication Technologies (CONECCT) (2012, 2013), the flagship conference of Bangalore Section. He was a Member, IEEE University Programs (UPC) Ad-hoc Committee of the IEEE Educational Activities Board (EAB) in 2010.

He is an IEEE Fellow, Member of Eta Kappa Nu and the recipient of the 2018 IEEE MGA Leadership award. He is a co-author of IEEE 802.16 standard on wireless channel models which was a collaboration between academia and industry. He has fostered the growth of IEEE during his service. He has established close working of members from academia, industry and government officials during several events organized by him ranging from technical seminars, workshops, to international conferences.



Receiving the 2018 IEEE MGA Leadership from the 2018 IEEE President Prof Jose Moura along with 2018 IEI President and IEEE Bangalore Section Leadership

R10 WIE Personality of the Month –Lee Yoot Khuan

Malaysia Section



Lee Yoot Khuan was a founding member of the IEEE EMBS Malaysia Chapter (2009), and went on to hold various leadership positions within EMBS, WIE and Malaysia Section, earning numerous awards during her tenure, which greatly enhanced the global visibility of IEEE Malaysia. She also co-founded the SIGHT group in Malaysia. As a result of her exemplary leadership, Yoot Khuan was re-elected as EA Chair of IEEE Malaysia four times, R10 EA Subcommittee thrice, R10 WIE Subcommittee, IEEE SIGHT Assessment Committee, IEEE EAB Pre-U Coordination Committee, Chair of Chapter Development of the IEEE EMBS Member & Student Activities Committee – *firsts* for IEEE Malaysia. Further testament to her ability, she received special assignments from the President of IEEE EMBS for 2014 IEEE EMBS Student Conference, 2016 R10 EMBS Chapter Chair Meeting and IEEE WIE (Exhibition at ICC'16). As the Conference Chair, she has successfully invited medical practitioners to identify practical research challenges needing solutions from biomedical engineers, and elevated the EMBS Malaysia flagship conference (IECBES) to technical-specific IEEE EMBS conference status (2016).

Besides her professional interests, Yoot Khuan is also active in several causes. A particular passion of hers is promoting inclusivity and diversity, in engineering and beyond. To this end, she has lent a hand in organizing various events promoting equality. Notable examples include:

1) High school essay competition (garnering 1500 entries) about exemplary women engineer/scientist to de-stigmatize the profession, 2) 2017 International Leadership Summit (ILS) in Malaysia, aimed at self and career development, 3) Seminar on Health and Stem Cells (endorsed by the Malaysian Ministry of Women, Family and Community) to improve public knowledge on the subject, as well as 4) Speaking on leadership at the IEEE R10 SYW Congress and ILS in Chennai (2015).



2020 IEEE EAB Mini Series @ IEEE Headquarter



2019 IEEE EAB Meritorious Achievement Award in Pre-U Education, *IEEE Spectrum*

Being a first-generation academic, Yoot Khuan appreciates the importance of education and is committed to empowering the future generation by promoting STEM education at schools, polytechnics, half-way homes and orphanages. As EA Chair of IEEE Malaysia, Yoot Khuan was cognizant of the declining interest towards STEM education and careers in Malaysia and has invested much effort to address this issue. Her presentation at the inaugural meeting with the Ministry of Education (MOE), granted after lots of perseverance and effort, blazed the trail for Teaching in Service Program (TISP) presence and workshops at a series of MOE National STEM colloquiums and MOE-IEEE Malaysia TISP Week project (2018). IEEE EAB TISP eventually rose to fame, gaining the attention of over 4000 MOE personnel, principals, teachers, and parents through exhibitions and forums, as well as 500 teachers through TISP workshops. For lending their expertise to STEM education, IEEE Malaysia Section was commended as an example for other professional institutions to emulate; for her outstanding contribution to this effort, Yoot Khuan received the 2019 IEEE EAB Meritorious Achievement Award in Pre-U Education (*pictured above*).

Yoot Khuan is currently a professor at the Faculty of Electrical Engineering, Universiti Teknologi MARA. Her research experience and interests include biomedical signal processing, biomedical event detection and AI - in particular, their applications to improving quality of life. More photos of her activities can be found at <https://www.facebook.com/leeyootkhuan>.

Other Awards not pictured include: 2012 IEEE EMBS Outstanding Chapter Award, 2012 IEEE Malaysia Section Best IEEE Volunteer Award, 2013 IEEE R10 Educational Activities Award for Informal Education, 2015 IEEE Asia Pacific Region (R10) Outstanding Individual Award for Humanitarian Technology Activities, 2019 IEEE Asia Pacific Region (R10) Outstanding Group Educational Activities Award.

R10 YP Personality of the Month – Abey Easow Joseph

Kerala Section

Abey Easow Joseph is a graduate in Electronics and Communication Engineering from College of Engineering Chengannur affiliated to Cochin University of Science and Technology (CUSAT), Kerala. He is currently working as a Product Manager at Entri Inc., an Education Technology Start-up Company based in Kochi, India, which provides a test preparation platform for various job-oriented competitive exams in India. He has been an IEEE member since 2010, when he started his IEEE journey as a student member during the freshman year of his undergraduate degree. He started his IEEE volunteering career as a ground volunteer in his Student Branch and eventually excelled his way to be the SB Chair. He has been an integral part of IEEE Kerala Section's activities since his graduation in 2014.



Abey has held various responsibilities in IEEE Kerala Section and IEEE Kochi Subsection over the last few years. In 2017, he held the responsibilities of Electronic Communication Coordinator of IEEE Kerala Section and Student Transition & Elevation Working Group Head of IEEE Kerala Young Professionals. In 2018, he was the Co-chair, Membership Development Committee of IEEE Kerala Section and currently holds the responsibilities of the Membership Development Chair and Awards Committee Convener of IEEE Kerala Section. He also volunteers as the Treasurer of IEEE Kochi Subsection and Student Branch mentor of his alma mater. In his previous roles, utilizing his professional experience, he has increased the public outreach of IEEE widely within the community, especially for Young Professionals.

He was instrumental in the transition of student members to Young Professionals in his section during the period 2016-2019. In these capacities, he has conducted 60+ IEEE and Young Professional awareness sessions for Students, Graduate Student Members, Industry Practitioners and Academicians. These initiatives and campaigns led to an increase in student member retention rate of Kerala Section from 13% in 2017 to 23.7% in 2018 and 26% in 2019.

In 2016, Abey initiated a year-long internship program for the student members of Kerala Section. The aim of this program was to bridge the gap between industry and academia so that the students would be aware of the industry requirements. The program was helpful for student members and it contributed a lot to the onset of their professional career. This program still runs successfully as an outreach initiative of IEEE Kerala Section and IEEE Kerala Young Professionals. Abey was also instrumental in the successful conduction of IEEE ISTAS 2016, IEEE TENSYP 2017 and IEEE TENCON 2019 conferences. He was a core member of the organizing committee of these conferences and led the publicity team in all instances.

Right from being a student volunteer of IEEE, he was very keen on understanding the needs of the members and focused on initiating streamlined activities that delivered member satisfaction and helped in increasing the value of membership. 10 years down the lane, this same spirit thrives in him, and while serving the members of IEEE in each of his designated roles, he makes sure that he identifies the requirements and takes up the responsibility to cater to them. For his invaluable contributions and high impact adherence of responsibilities, he was awarded the IEEE Kerala Section Outstanding Young

Professional Volunteer Award for 2018 and IEEE Region 10 Young Professionals Outstanding Volunteer (Industry) Award in 2019.



“I have been an active volunteer of IEEE since my student days. IEEE has played a vital role in defining who I am today. I did things that I thought I could never do, only after I joined IEEE. When I joined, one thing I heard was, if you give your time to IEEE, you’ll always get 10x benefits. It has been true in my life for the past 10 years.

Being a part of the Young Professional community has made great things happen to me. The experiences I have had with the community is one of the major factors that has helped me grow

in my career. Also, the spirit of Joy of Volunteering is something that always keeps me going forward. Getting involved in Young Professionals is the best thing for a professional in the early stages of their career. If you put your time into it, you definitely won’t regret it. The experiences you’ll enjoy is something one cannot get from anywhere else. It will definitely help you to achieve your career goals and build everlasting relationships for a lifetime.”

- Abey Easow Joseph

R10 Student Personality of the Month – Naila Mukhtar

New South Wales Section



Receiving award from IEEE NSW Section Chair Sasha Nikolic

Naila Mukhtar has been contributing as IEEE volunteer since 2016. Currently, she is serving as Webmaster and social media coordinator of IEEE Region 10 Newsletter. She is also working as Chair of IEEE New South Wales (NSW) Women in Engineering (WIE) Affinity Group (AG); Vice-Chair IEEE Computer Society NSW Chapter and Treasurer IEEE NSW Young Professionals Affinity Group. Previously, she served in various roles at student branch and NSW section level. She is the WIE student representative of the local Macquarie University STEM and WIE committees. She is actively involved in IEEE Women in Engineering and MQ Women in STEM activities and is also helping in shaping the opportunities for other young women in STEM, who are willing to make the difference. As an acknowledgement of her efforts and contributions, she has received “IEEE WIE Inspiring student member of the year award”, which is one of the prestigious awards of IEEE WIE. She also received “Faculty of Science and Engineering Best Student Services Award 2018” at Macquarie University.

She received her BS and MS degrees from Pakistan in the field of computer engineering. She worked as R&D Engineer for integrated security solutions in defense sector. Based on her passion for research, she started her PhD from Macquarie University, Australia. Her research interests include Embedded System Security, Artificial Intelligence, Cryptography and Information Security.

She has actively participated in various IEEE technical and non-technical conferences and hosted/co-hosted the WIE track receptions, including IEEE Tensymp 2018, IEEE ANZSCON 2017, IEEE WIE International Leadership Summit Brisbane, and Macquarie University Leadership Summit. She has collaboratively organized prolific events to support students and young professionals, promote gender diversity and inclusion, and professional development. She has also organized events on entrepreneurship for postgraduate students to help them transform their research projects into marketable products.



She was part of the organizing committee for Australia New Zealand Student and Young Professionals Congress (ANZSCON) 2017 Sydney, where she helped to present WIE track and panel discussions on women empowerment, gender diversity and leadership. ANZSCON is an initiative of Australia and New Zealand councils for providing support to Student, YP and WIE members. She also served as a committee member of the IEEE Women in Engineering Leadership Summit (ILS) Brisbane, which was organized for the first time in Australia. This was a mega event with academic and industry participants from across Australian sections. As part of IEEE WIE ILS Brisbane media team, she was responsible for managing website and social media (including Facebook, twitter and LinkedIn). She is also part of IEEE NSW WIE “Share-to-Inspire” initiative. The

purpose of this initiative is to organize activities to inspire high school young students to join STEM careers through project-based events, portraying the image of engineering, through role-model based events and through sharing the journey experiences of role models from STEM.



“Engineering for me has always been a way to do better. After joining IEEE I have been seeing, meeting and working with so many inspirational leaders and members, who have significantly impacted the humanity. I have made so many friends along the journey and met the mentors who inspired and supported me a lot.”

Naila Mukhtar

R10 COVID-19 Personality of the Month - Norhana Arsad

Associate Professor, Dept. of Electrical, Electronic & Systems Engineering, Faculty of Engineering & Built Environment, Universiti Kebangsaan Malaysia, 43600 Bangi, Selangor, Malaysia

COVID-19 Silver Lining... Front Liner... Back Liner...

It must have been tiresome for almost everyone and stressful to some for having to stay at home under the Movement Control Order (MCO) in order to break the chain of the worldwide Covid-19 outbreak. Staying at home does not mean that the search for knowledge and support must stop. As all of us know, knowledge is key to success but with these MCO situations, we have got introduced to a new way of working, lifestyle and a new normal.

Hats off to our front liners in combating COVID19!

While we adhered to the MCO by staying at home, they have been working hard, battling fatigue, rain, and the hot sun for all for us and for our beloved country. Having to stay home does not mean not doing anything. So, what can we do to help? There are plenty of things that can be done to help ease the burden of the people working in the frontline during this devastating pandemic. One is by helping to produce face shields and mask extenders to be worn by our front liners, while combating COVID-19.

As the world battles against this pandemic, a shortage of Personal Protective Equipment (PPE) is likely to happen soon in Malaysia. The Coronavirus can travel through droplets in the air; thus, the face shield is a must for every front liners working intensely to contain the spread. Therefore, with the concerted effort from the staff of the Department of Electrical, Electronic & Systems Engineering (JKEES), Faculty of Engineering & Build Environment, Universiti Kebangsaan Malaysia, and the IEEE MyIPS, face shields and extenders have been produced using 3D Printers.

This effort could not have happened without the sponsorships of various donors especially Tan Sri Dato' Seri Prof. Emerita Dr. Sharifah Hapsah Syed Hasan Shahabudin of The NATIONAL COUNCIL of WOMEN'S ORGANISATIONS (NCWO) & Prof. Dr. Dayang Anita Abdul Aziz (NCWO Rep & Faculty of Medicine, UKM), PUSAT IDEA, UCTC, FKAB, SERI (Prof. Dato' Dr. Kamaruzzaman Sopian), UKM, JKEES members (Assoc Prof Dr. Gan Kok Beng – Leader, Prof. Dr. Aini Hussain, Prof. Ir. Dr. Mohd Syuhaimi Ab Rahman, Assoc. Prof. Dr. Sawal Hamid Md Ali, Assoc. Prof. Ir Dr. Nasharuddin Zainal, Assoc. Prof. Dr. Zainuddin Sajuri, Dr. Intan Fadhlina Mohamed, Dr. Iskandar Yahya, Dr. Mohd Faisal Ibrahim, Dr. Mohd Hairi Mohd Zaman, En Mohd Huzairi Johari, Cik Aida Baharuddin, Cik Nor Jaziha Mat Jalil, En Mohd Rokhaizat Jamaluddin and En Muhd Nuurul Iman Osman Talib for their unconditional support in making this happen.

The togetherness and unconditional support towards our front liners have enabled them to support us better. Hence, it helped us to ensure healthy livings and nurture societal harmony in the country.

Check the multimedia version of the COVID-19 Personality of the Month at the link below:

<http://newsletter.ieeer10.org/covid-19-interviews/>

#ukmcare

#obeymco

#staysafe

#togetherwecare

THE LIST OF RECIPIENTS

1	Jabatan Kesihatan Terengganu
2	Hospital Kuala Krai, Kelantan
3	Hospital Raja Permaisuri Bainun, Perak
4	Hospital Shah Alam, Selangor
5	Hospital Kajang, Selangor
6	Hospital Tengku Ampuan Rahimah Klang, Selangor
7	Hospital Sungai Buloh, Selangor
8	Hospital Selayang, Selangor
9	Hospital Ampang, Selangor
10	Pusat Perubatan Universiti Malaya, Selangor
11	Hospital Kuala Lumpur, Wilayah Persekutuan
12	Hospital Tunku Azizah, Wilayah Persekutuan
13	Hospital Canselor Tuanku Muhriz, Wilayah Persekutuan
14	Hospital Prince Court Medical Centre, Wilayah Persekutuan
15	Hospital Avisena Women's & Children's Specialist, Selangor
16	Pusat Kesihatan Universiti Kebangsaan Malaysia, Selangor
17	Klinik Kesihatan Meru Klang, Selangor
18	Klinik Kesihatan Bukit Kuda, Klang Selangor
19	Klinik Kesihatan Dengkil, Selangor
20	Klinik Kesihatan Putrajaya, Wilayah Persekutuan
21	Klinik Kesihatan Seksyen 7 Shah Alam, Selangor
22	Malaysia Genome Institute, Selangor



CALL FOR ARTICLES

SEND US YOUR
ARTICLES ABOUT
COVID-19 RELATED
ACTIVITIES

Are you working/volunteering on countering the threat of COVID-19 in your local section? If so, stand a chance to feature in our COVID-19 *Personality of the Month* (both regular article and multimedia versions) column in our R10 Newsletter!

Contact us at r10-ecn@ieee.org for details



R10 ORGANIZATIONAL UNITS (OU) OF THE MONTH



4. R10 ORGANIZATIONAL UNITS OF THE MONTH

R10 Large Section of the Month – Tokyo Section

Prepared by: H. Tokuda, Chair for IEEE Tokyo Section

IEEE Tokyo Section was founded in 1955 as IRE Tokyo branch and then renamed accordingly after the merger of IRE and AIEE in 1963. After a set of reorganizations in 1998 and 2006, by which 8 newer sections came into being in Japan, Tokyo section has covered the Kanto region. The membership has reached 7,761 at the end of 2019 from 72 at the time of the inauguration. This section has shown active engagement including 20 IEEE Milestones being recognized along the way. What sets the section remarkably apart is its various activities such as 176 workshops offered by 38 chapters, with support from 8 committees and 2 affinity groups, with significant outreach to people in a wide range of age groups. The section holds about 10 lectures every year, with invited speakers from distinguished experts in each field. In 2019, 11 events took place, including “High Electron Mobility Transistor, HEMT” IEEE Milestone Dedication Ceremony and Commemorative Lectures. Three recent events are featured as follows:

Lectures in "Yume Koko Class"

The section organized the lectures in a class called "Yume Koko Class" at Daini Tanabu Elementary School in Aomori prefecture on 4 October, 2019. This event was jointly held by Special Interest Group on Humanitarian Technology (SIGHT) Tokyo; IEEE Tokyo Young Professionals (YP) Committee and Japan Council (JC) YP Coordinator, in cooperation with Sendai YP and Sendai Women in Engineering (WIE). Three speakers gave an introduction of IEEE to 66 sixth grade students.



Tokyo SYWL Workshop 2019 & IEEE Day Party 2019



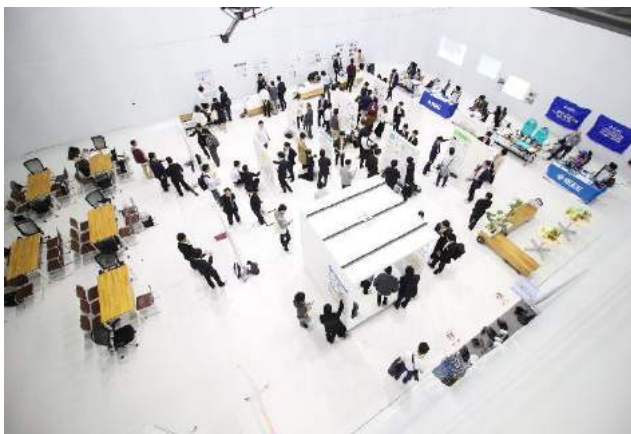
Tokyo SYWL Workshop & IEEE Day Party 2019 were hosted by IEEE Tokyo Student Activities Committee, IEEE Tokyo YP Committee, JC WIE Affinity Group and IEEE Tokyo Life Member Affinity Group (LMAG), with the co-sponsorship of IEEE Tokyo University of Agriculture and Technology, The University of Electro-Communications and Meiji University Student Branches, on 5th October 2019, at Nihon University, College of Humanities and

Sciences. 40 people attended this vibrant event. These occasions, aimed at further cooperation with and more activities in Student Branch, YP, WIE, LMAG (SYWL) of Tokyo Section, and at sharing knowledge from various generations and regions to broaden the minds, presented some lectures titled “IEEE and me” by the representatives of each group, followed by a discussion on careers among the members of SYWL. The social event for the celebration of IEEE day took place after the workshop. The SYWL members of Tokyo Section



met and mingled around the birthday cake that was specially made for “IEEE Day” in memory of its 10th anniversary.

The 16th IEEE TOWERS



The 16th IEEE TOWERS (Transdisciplinary-Oriented Workshop for Emerging Researchers) took place in Empowerment Studio of University of Tsukuba on 19th October 2019, hosted by the 16th IEEE TOWERS Executive Committee. There were 65 poster presentations and 105 attendees having an active group discussion on the theme “How to eliminate fringe science?” and participating in “poster presentation stamp rally”, where attendees go to different poster presentations to collect as many stamps as possible. This workshop, as part of

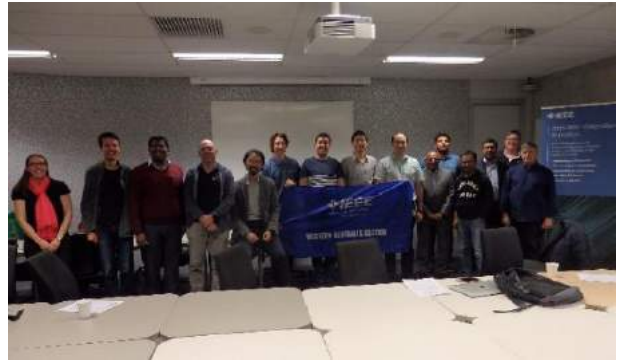
student activity, was operated by the students and aimed at networking among young researchers from different fields for future collaboration.

Unfortunately, the spread of COVID-19 has forced the Tokyo Section into avoiding activities which involve people’s physical contact as of June 2020. However, it now tries to manage to maintain its communication by network technologies, for example, in the executive meetings and technical lectures, and will get its activities up to speed back again soon, once the pandemic ends.

R10 Medium Section of the Month – Western Australia Section

Prepared by: Dr. Amit Kunwar, Newsletter Editor for IEEE Western Australia Section

IEEE Western Australia Section was established on 24th May, 1984, and presently, there are 535 members associated with the section. Since its establishment, this section has been serving the needs of all IEEE members in Western Australia. The section has several sub-units formed under its umbrella, which includes 10 specialist section chapters, 2 affinity groups and 4 student branches. These chapters include Circuits and Systems; Communications; Computational Intelligence; Computer; Joint Electron Devices/Solid-State Circuits/Photonics; Industrial Electronics; Joint Power and Energy/Power Electronics; Signal Processing; Society on Social Implications of Technology (SSIT) – National Chapter; and Systems, Man, and Cybernetics. The affinity groups include Young Professionals and Women in Engineering. Likewise, the student branches within the section are Curtin University, Edith Cowan University (ECU), Murdoch University, and University of Western Australia (UWA).



The section has an ongoing program of social and technical activities for its members through seminars, conferences and workshops. Additionally, the activities for student members are also a regular feature of the section annual program. This section meets approximately every 6 weeks for face-to-face meetings to discuss activities, plans and achievements within the section and its sub-units. However, due to the current Covid-19 situation, the last section meeting in May 2020 was conducted successfully as an online meeting with full participation from its committee members.

The key focus areas of this section are to increase membership within the section and to encourage members to take advantages of the social and technical activities. The section is preparing a member development plan and individual membership benefits (member support plans) for membership development. Additionally, the section aims to improve the support networks and funding opportunities for its student branches.



In order to recognize the contribution of our volunteers, from 2019, the section has started IEEE WA Section outstanding volunteer awards. Dr. Douglas Chai and Mr. Chris Scherini received outstanding volunteer award and outstanding student volunteer award respectively for their invaluable contribution to the section. Likewise, the section annually provides outstanding student prizes to the electrical engineering students in Curtin University, Murdoch University and Edith Cowan University based on their academic achievements.

Some of the key IEEE WA section seminars were:

1. Title: Sensing and Signal Processing Based on Microwave Photonics, Presenter: Dr. Linh Nguyen, Date: 17th January 2020.
2. Title: The Future Aerospace Transportation System, Presenter: Dr. Graham Wild, RMIT University, Date: 13th December 2019.
3. Title: On the Observer Design with Application to Battery State of Charge Estimation, Presenter: Mohamed Darouach, Date: 9th December 2019.
4. Title: Self-adaptive Biologically Inspired Signal Processing for Saliency Enhancement, Presenter: Dr. Russell SA Brinkworth, Date: 5th December 2019.

The section also regularly posts and updates its key events and activities on the section web page. More information can be accessed through the link: https://ewh.ieee.org/r10/w_australia/section.php.

R10 Small Section of the Month – Gwangju Section

Prepared by: S.M. Hong, Secretary for IEEE Gwangju Section

IEEE Gwangju Section was established as the Kwangju Section. Since the English name of the city was changed from Kwangju to Gwangju, in 2017, the Kwangju Section was renamed as the Gwangju Section. The present Section Chair, Prof. Minjae Lee started his term in February 2019. As of May 2020, the Gwangju Section has 256 members. The section membership numbers have doubled in the last couple of years.



Gwangju, a metropolitan city located in the southwest of the Korean peninsula, and the Honam region hosts several universities and research institutes. Recently, the artificial intelligence (AI) industrial convergence complex construction project has been launched. It is expected that active collaboration between industries and academia can be initiated as a result of this project.

As a small Section, one important issue has been membership. In order to maintain and increase the number of members in the Gwangju Section, several efforts have been made. The Section is focusing on young students, the next-generation of our technical society. Every year, several technical seminars are supported by the Gwangju Section. Technical co-sponsorship with universities (for example, Gwangju Institute of Science and Technology) in various forms (such as colloquium lectures) improves visibility for young students. Social events for members and potential members are also organized for the membership development. Also the student membership fee is partially reimbursed based upon the board's decision.



In 2020, due to the worldwide outbreak of COVID-19, it has been difficult to invite external experts for technical seminars. Instead, the section is planning to host several on-line seminars. It is expected that these on-line seminars can provide valuable information for members, especially, the young student members in these difficult times.

R10 Council of the Month – New Zealand Council

Prepared by: Donald Bailey, Chair for IEEE New Zealand Council

History

The IEEE New Zealand Section was formed in 1968, shortly after the formation of Region 10. In 1980, it was reorganized as a New Zealand Council, with two sections: New Zealand North and New Zealand South. The New Zealand Central Section was formed in 2007, and the Fiji Subsection was formed under New Zealand North in 2015.

About Us

The IEEE New Zealand (NZ) Council is a small administrative body, which exists at the pleasure of its constituent sections for the express purpose of:

1. Providing a common voice for IEEE within New Zealand, when requested by its constituent sections. This includes coordinating with other professional engineering organizations within New Zealand (IET, and Engineering New Zealand).
2. Providing an initial point of contact to IEEE and to help direct enquiries to the appropriate units of the organization.
3. To help coordinate activities between the Sections. This is important because many of the technical society Chapters are joint between the Sections within New Zealand.

The Council consists of the Chairs of the New Zealand Sections, and the Chair of the Fiji Subsection. The Council is hosted on a rotation basis with the host Section electing the Council Chair who is usually a former Section Chair.

The Council is a fully volunteer run unit and has no accounts or budgets. Extraordinary expenses of the Council are met by an equal levy on the Sections, when required and as agreed. The business of the Council is largely conducted by its Chair, with tasks delegated to other volunteers.

Recent and Current Activities

1. In July 2019, the IEEE University of Canterbury Student Branch hosted a small but successful ANZSCon (Australia New Zealand Student and Young Professionals Congress)
2. NZ South hosted and provided hospitality for the R10 Executive committee meeting in Queenstown in January 2020.
3. An on-going project is the registration of IEEE New Zealand. This project has currently stalled while sorting out a number of legal and financial issues.
4. The former national society agreement with IPENZ has expired. The council is in the process of negotiating renewed agreements with both IET New Zealand, and Engineering New Zealand (formerly IPENZ).
5. NZ Council is planning an activity for IEEE New Zealand Day. Our calendars are generally relatively quiet at the start of the year, and fill up with a number of activities in the latter half of the year. An event is planned in March 2021, probably in the form of a webinar, with participation from each of the Sections within NZ, to celebrate IEEE in New Zealand.
6. On behalf of IEEE NZ, the NZ North Section put in a bid to host TENCON 2021, which was accepted. Planning is now underway to hold this flagship conference in Auckland in December 2021.

R10 Student Branch of the Month – COMSATS University Islamabad

Prepared by: Iqra Abbasi, Member of IEEE COMSATS University Islamabad Student Branch

In 2015, 12 individuals from COMSATS University, Islamabad (CUI) came together to create the IEEE CUI Student Branch. Their primary aim was to provide their fellow students with a platform that would allow them to gain industry experience and grow as professionals.

Today, the branch has expanded into five chapters with one affinity group and 173 members. Despite the various challenges faced, this student branch continues to work devotedly for the professional and technical development of its student

members while simultaneously helping them become engaged members of their communities through its humanitarian efforts, such as IEEE PES Zero Hunger Day. All this hard work led to IEEE CUI being awarded the IEEE Regional Exemplary Student Branch Award 2019.

In keeping with the branch's main purpose, in 2019, IEEE CUI organized over 60 events (including a variety of workshops, seminars, and competitions) that reached out to more than 3600 students and professionals on a local and national level. This branch collaborated with organizations such as Google, Facebook, Startup Grind, OPEN Islamabad, DEV, Digital Ocean, Red Bull, British Council, Embassy of Belgium, Embassy of France, and the Pakistan Red Crescent Society for various events. Standouts among which were ROBIAN, Techno Fest, and the CS Carnival, all of which are held annually at a national level.

Employment opportunities are also provided to the students through such events and Career Expos. These events allow students to showcase their work for various industry representatives and gain insight into the recruitment processes of various organizations. The branch also helped LampròMèllon, a recruitment firm; introduce its train-to-recruit program in the university. The branch also focuses on the personal development of students. For this, seminars regarding public speaking, first aid skills, scholarship opportunities, etc. are regularly held. Another hallmark of the year is the biannual recruitment drive, along with the “Ice-breaking Session” to ease the new members into their chapters and make them feel comfortable in this new environment.

As a result of the ongoing COVID-19 pandemic, university activities have been suspended. As a result of this, all major branch activities have been moved online. In this regard, the branch has been hosting webinars inviting professionals to speak to the participants and provide their insight on various topics like industrial protocols and mental health. Also, all 7 IEEE CUI teams (which consist of content writing, videography, graphic designing, photography, etc.) have been conducting weekly online sessions. This ensures that the students are using this time to develop their skills. Undoubtedly, this spirit will lead the IEEE CUI student branch to many more accolades in the future.





R10 UPDATES



5. R10 UPDATES

IEEE R10 Educational Activities

**ChunChe Lance Fung, Chair for R10 Educational Activities Committee (EAC)
Emeritus Professor, Murdoch University**

COVID-19 has caused major disruptions to the lives of many. In the midst of upheavals, the challenge is how to stay positive and be prepared for the future. The answer is – **KEEP LEARNING!**

One of the key goals from the 2020-2025 IEEE Strategic Plan is **Life-Long Learning**. No matter what circumstances one is going through, knowledge and wisdom are the key and guide which lead to success. IEEE is leading the charge and equipping the members with numerous resources on educational activities and technical talks. Members could explore and utilise the information and materials from the **IEEE COVID-19 News and Resources Hub** in spectrum.ieee.org. In particular, the Free Resources page (<https://spectrum.ieee.org/static/free-resources>) has a collection of tools and information targeted towards Practising Engineers, Educators, Parents, Researchers and Students. One can also find free webinars to support academic faculty transitioning to distance learning during the lockdown <https://innovationatwork.ieee.org/events/virtual-events>.



The R10 EAC is encouraged to receive many submissions for the 2020 EAC Challenge. It has been a difficult task to select the winners, and after the judging process, the results are: Winner of the Pre-University Category is Hong Kong Section with its project, *“Empower Diversified Learners in Hong Kong with IEEE TryEngineering”*. Winner of University Category is University of Malaya Student Branch with its project, *“Smart Hybrid Solar Energy Harvesting and Storage System Design Challenge”*. Runner-up of the Pre-University Category is the IEEE Students Branch NIT Durgapur with its project *“Dhruv”*, and the Runner-up of the University Category is Power Energy Society Malaysia Chapter with its project *“Electrical Power System Simulation Competition 2020 (EPSSCom)”*.

Another eight projects: *“Automatic collection and disposal of Garbage from rural areas”*, *“Virtual STEM Outreach to Secondary Schools in Sabah”*, *“Bringing STEM to life (STEM for Learning Disabled Students)”*, *“Elevator Pitch Workshop for Engineers / Technopreneurs”*, *“IEEE iCARE e-Tuition for Humanity among Rural Learners during COVID-19 Pandemic Period”*, *“1st IEEE Five Minutes Final Year Project (5MFYP)”*, *“Bridge the Healthcare Gap: Introducing Telemedicine and IoT to Secondary Schools Students of Rural Areas”*, and *“Eureka-2020”*, were recommended to receive “Commendation Support” for their projects.

In order to raise the awareness of EA within the Region, a webinar was held on 29th March, 2020 to promote the R10 EA Challenge and winners from 2019 challenge were invited to share their experience and lessons learnt. Another Webinar has been planned for June 2020 to promote IEEE EA resources from IEEE and EAB. In addition, Chair of R10 EAC has been invited to speak at many online webinars. Introduction of IEEE, EA and other technical resources have also been actively promoted.

Chair of R10 EA is currently working with Region 8 EA Chair, and EAB staff to improve presentation and promotion of **IEEE EA volunteer resources** at <https://ea.ieee.org/resources>. A survey will be conducted later this year to assess the Satisfaction and Utilisation of the resources from the IEEE EAB site.

Keep Safe and well, Keep Learning!

Free Webinars to Support Academic Faculty Transitioning to Distance Learning

On-Demand Webinar **Using eLearning to Support Distance Learning**
Presented by: Timothy Kurzweg, Ph.D., Russ Meier, Ph.D., and Jennifer Fong

Online Delivery of Engineering Programs: Tips You Can Use From an Experienced ABET-Accredited Program
Presented by: Stephen Phillips, Ph.D.

Helping Students Learn via Online Delivery: Considerations for Pandemic Pedagogy
Presented by: Traci Nathans-Kelly, Ph.D.

Strategies for Effective Delivery of Online Engineering Courses: Best Practices, Tips, and Toolkits
Presented by: Babak Beheshti, Ph.D.

Keep track of new events as they are added on the **IEEE Innovation at Work** site:

<https://innovationatwork.ieee.org/events/virtual-events/>



[Webinars to equip Academic Faculty for distance Learning](#)

Section Education Volunteer Manual

Prepared by:

The **Section Education Outreach Committee** of the **IEEE Educational Activities Board**
IEEE Educational Activities

- SUMMARY
- IEEE EDUCATIONAL ACTIVITIES BOARD MISSION AND VISION
- IEEE EDUCATIONAL ACTIVITIES (EA) PROGRAMS
- EDUCATION OUTREACH VOLUNTEER ROLES
- REGION EDUCATIONAL ACTIVITIES CHAIR (REAC) ROLE
- SECTION EDUCATIONAL ACTIVITIES CHAIR (SEAC) ROLE
- IEEE EDUCATIONAL ACTIVITIES SOCIAL MEDIA PLATFORMS
- CONTACT INFORMATION

Screen Capture of New On-line **Section Education Volunteer Manual** at

<https://ea.ieee.org/resources/educationvolunteer/section-education-volunteer-manual>

IEEE R10 SAC Launch on LinkedIn

Region 10 Student Activities Committee

We are excited and pleased to announce that we are now officially on LinkedIn! Amidst the various number of social networks, we are stepping into LinkedIn to be a part of your professional network to share the regular updates of our upcoming events and activities. This makes it the fourth social network that we are actively involved in. Follow us on LinkedIn and stay up-to-date with the announcements and events from R10 SAC.

Follow us on LinkedIn at:

<https://www.linkedin.com/company/ieee-region10-student-activities-committee/>



IEEE R10 SAC Initiative

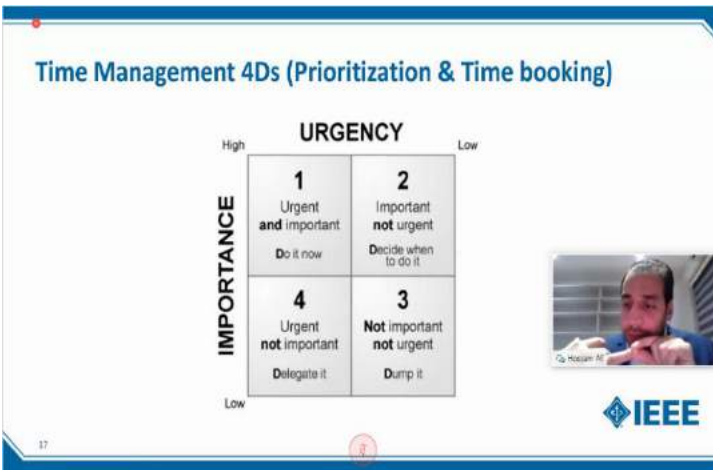
Webinar on “How IEEE CAN ENRICH YOUR EXPERIENCE AND ADVANCE YOUR CAREER”

Ms. Janani Ramachandran, Content Writer for R10 Student Activities Committee

Our speaker Hossam Ali, Branch Chapter Representative at IEEE Students presented a webinar on the topic “HOW IEEE CAN ENRICH YOUR EXPERIENCE AND ADVANCE YOUR CAREER”. He spoke about the business culture and diversity which is being followed among most of the companies correlating with his experience as a Project Manager in The Missing Link.

Management – A Key Skill

Management is the key factor that plays a very important role in achieving a goal in an organization as well as in life. The speaker discussed the People Management according to the circumstances which are faced by one in his/her company. He



explained about the attitude which acts as a game-changer in approaching different kinds of people in our day to day life. He also spoke about Time Management 4Ds which every individual should follow in their work life. The 4Ds are Do it now, Decide when to do it, Delegate it, and Dump it. He emphasized that if one follows these 4D's it would help them to excel in their personal life as well as work life.

7 steps – Career Game Changer

The first step is to attend a relevant course which will make them take an extra step

towards their career goal. The second step is to build a network of people who are involved in the same stream that they are working in. The third step is to get a mentor who can inculcate a wide range of knowledge to you. The fourth step is to help someone with daily tasks to get hands-on experience. The fifth step is to create an attractive CV and LinkedIn Profile which can give you an ocean of opportunities. The sixth step is to show interest in internal jobs and the last seventh step is to apply for external jobs and learn from an interview. He also discussed how one can learn from each and everyone around them. It may be a leadership quality, skill, or how to handle the situations. The whole session was interactive and informative which was attended by 1300+ participants via webex and Facebook Livestream.



IEEE R10 LMAG Committee

Rajendra K.Asthana, Chair for IEEE R10 LMAG Committee

- Based on presentation at the R10 ExCom at Queenstown, New Zealand on 11th January 2020, an award was instituted for IEEE R10 Life Members. This award has been named as “**R10 Life Member Outstanding Volunteer Award**”. Call for nominations for this award was issued on 24th March 2020 with the last date for submission of nomination as 15th May 2020. Four nominations were received for this award and these are currently under evaluation.
- Total number of activities conducted during the year 2019 exceeded 50. However COVID 19 has adversely affected activities planned for 2020.
- R10 Life Member Committee was finalised in February and included life members from South Australia, Seoul and Bangalore Section LMAGs.
- The R10 Life Member Committee successfully convinced the Hong Kong Section to establish a new LMAG. Petition is expected to be submitted soon.
- R10 Life Member Committee held 2 online meetings. The first meet was in February 2020 and the second meet in May 2020 to review progress of activities planned and future proposals.
- 4 meetings were held for the MGA-LM committee. Three online WebEx meetings in January, March & May 2020 and one F2F meeting at San Antonio, Texas on 17th & 18th January 2020 where plans & budget were discussed.
- SYWL Congress scheduled to be held at Bangkok during September 2020 has been shifted to December and in case the situation is not conducive then, it may be postponed to 2021.

IEEE R10 Membership Development

Parkash Lohana, Chair for IEEE R10 MD Committee

IEEE R10 MD Committee has been focusing on two important aspects namely:

1. Members' retention and
2. Recruitment of new members.

The membership data with brief summary has been circulated monthly to all section leaders of R10 for monitoring purposes so as to encourage them to achieve the membership goals set by MGA MD committee. However, these goals cannot be achieved without the promotion of technical and professional activities at local level. Therefore, the R10 MD committee has planned to encourage OUs, student branches/affinity groups/chapters to initiate professional as well as technical activities for students, professionals, and senior members so as to achieve the objectives set by the R10 MD committee in 2020.

The committee has asked the section leadership to come up with ideas to meet the set objectives and appropriately execute them considering the challenges posed by the COVID-19 epidemic. To increase and retain members, elevation members to senior members and graduating students to young professionals, MD committee has planned some projects for 2020; the details of which have already been circulated to all sections/subsections/councils via R10 staff. A brief of one project focused on the increasing and retaining the membership is given below.

This project has been divided in four categories with main emphasis on increasing and retention of the membership with each category targeted on four different bodies of the R10 OUs. The details are as follows:

- 1. Targeted Bodies: Student Branches / Affinity Groups / Chapters**
 - a. Student branches come up with innovative ideas for increasing membership
 - b. Training sessions may be conducted for new members and officers of the branches.
 - c. Four different awards with grant of a total amount of USD 1000.00
- 2. Targeted Bodies: Section SAC/ SSR / AGs**
 - a. Student Activities Committee along with SSR and its affinity groups to come up with new ideas to retain the membership, like inter-branch promotional events with technical and professional training amongst different student branches
 - b. Two different awards with a total grant amount of USD 400.00
- 3. Targeted Bodies: Section MD officers**
 - a. Mainly target the YP and the SIGHT groups of the section
 - b. Ideas include internships and industry-academia linkages
 - c. Activities for recent graduates to collaborate with SIGHT/Societies/chapters
 - d. Activities to collaborate with industrial relation committee
 - e. Three different awards with a total grant amount of USD 550.00
- 4. Targeted Bodies: Section Secretary**
 - a. Mainly target increase and retention of professional and senior members
 - b. Any capacity building idea executed for senior members as a philanthropic activity
 - c. SIGHT project supervision by senior members to get more involvement with IEEE
 - d. Contribution towards sustainable development by professional and senior members
 - e. Two different awards with a total grant amount of USD 450.00

Further, R10 MD committee has recommended that membership development should be a built-in prerequisite for all R10 financially sponsored activities, be it YP, WIE, Professional, Educational or Technical event. This can avoid duplication of financial grants to Sections for MD activity. It is therefore imperative for the R10 MD Chair to work with all R10 Committee heads for making MD an essential part of their objectives and work plans.

IEEE R10 Strategic Planning Committee

IEEE Center for Leadership Excellence - Tools and Resources

Last year, the IEEE Region 10 Strategic Planning Committee (SPC) conducted a Council/Section/Subsection Survey to find out the challenges faced by our volunteer officers. One of the top-priority issue was the difficulties in using IEEE IT Tools such as NetSuite, vTools, OU Analytics, and e-Notice.

In order to better assist our volunteers, SPC encourage our volunteer leaders to utilize the well-prepared training materials offered by [IEEE Center for Leadership Excellence \(CLE\)](#).

What is IEEE Center for Leadership Excellence?

IEEE Center for Leadership Excellence (CLE) is a valuable resource that can help you to advance your leadership skills and also to equip you with the necessary tools for your volunteer roles.

It offers a 'one-stop' training solution designed to serve the multiple and diverse range of IEEE user communities. From volunteers, non-volunteers to students, members, and conference organizers, the site offers a simpler and effective learning experience.

How to access?

Simply log in with your IEEE account at: <https://iee-elearning.org/CLE/>

Volunteers can access volunteer role descriptions and training.

Action Plans are available for those interested in or holding an officer role and additional recommended content based on position is also available!

View the [FAQs](#) to get all the answers you need!

For [IEEE vTools Tutorials](#) training, you may also visit: <https://site.ieee.org/vtools/training/> for more information.

You may also refer to IEEE R10 webpage at: <https://www.ieeer10.org/it-tool-help/> as reference.

IEEE R10 Newly Established Affinity Groups

IEEE Sapporo Section YP AG

Formed March 2020

IEEE Sapporo Section Young Professionals (YP00977) was established on 20th March 2020 with four committee members as of now, including Chair (Dr. He Li from Muroran Institute of Technology), Vice-Chair (Dr. Takanori Sato from Hokkaido University), Secretary (Dr. Xun Shao from Kitami Institute of Technology) and Treasurer (Dr. Jianwen Xu from Muroran Institute of Technology). Sapporo YP aims at not only expanding the membership of IEEE but also increasing the popularity and influence of IEEE in Hokkaido. Moreover, Sapporo YP also plans to support IEEE student members in their early career who just graduated from universities in Hokkaido. The activity plan in 2020 is to expand the startup team and organize activities to build bridges between graduates and employers in the inaugural season. Sapporo YP also plans to invite world-renowned scholars to give lectures about early career planning for IEEE student members and young researchers.

IEEE Guangzhou Section WIE AG

Formed January 2020

Guangzhou Section WIE was established in February 2020 with Dr. Baiying Lei as chair. The mission of the WIE is "to facilitate the recruitment and retention of women in technical disciplines in Guangzhou. We envision a vibrant community of IEEE women and men collectively using their diverse talents to innovate for the benefit of humanity".

IEEE Bangalore Section Consultants Network AG

Formed in March, 2020.

IEEE Nagoya Section WIE AG

Formed in November, 2019.

IEEE Virtual Speakers Bureau

Region 10 Student Activities Committee

IEEE Virtual Speakers Bureau (IEEE VSB) is initiated by IEEE MGA Student Activities Committee to provide a platform for distinguished speakers to reach student branches virtually using online platforms and resources. Student branches and virtual speakers are paired by the Virtual Speakers Bureau committee.

More details about VSB at <https://bit.ly/ieeevsb>

Interested to host a virtual speaker to your Student Branch?

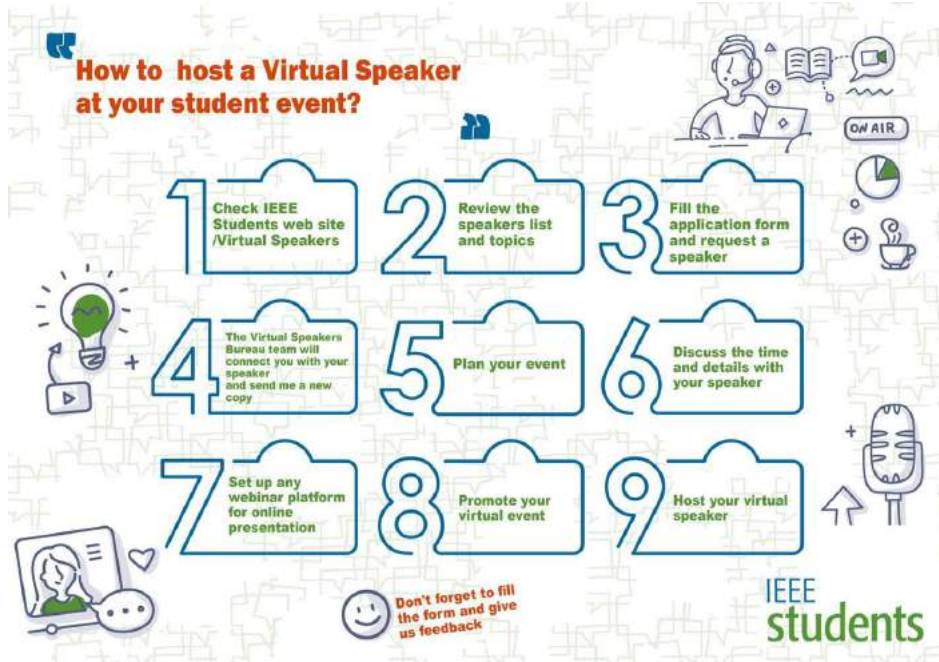
Imagine being able to connect with IEEE’s global network to host a speaker to your Student Branch. You are now able to host globally recognized professionals to present topics of interest to members of your student branch. Topics cover broad areas from professional to technical and as well as on soft skills, volunteer leadership, career tips and ways to get involved in the multitude of IEEE activities.

This program is delivered by volunteers at no cost to the Branch.

Request a Virtual Speaker's at <https://bit.ly/ieeevbspeaker>

Interested to be a speaker at VSB?

Speakers get the opportunity to share their knowledge and experience to benefit students across the globe. Sign up to be a speaker at <https://students.ieee.org/speaker-submission/>



VSB Event Planning Steps

IEEE MGA Nominations and Appointments Committee

Call for Nominations: 2021 IEEE MGA Committee Member and Liaison Positions

The **IEEE Member and Geographic Activities** (MGA) Nominations and Appointments (N&A) Committee is soliciting nominations for 2021 MGA committee member and liaison positions.

Positions include:

MGA Committee Members

- [IEEE Admission and Advancement Committee](#)
- [MGA Awards and Recognition Committee](#)
- [MGA Geographic Unit Operations Support Committee](#)
- [MGA IEEE.tv Advisory Committee](#)
- [MGA IT Coordination and Oversight Committee](#)
- [IEEE Life Members Committee](#)
- [MGA Member Benefits Portfolio Advisory Committee](#)
- [MGA Nominations and Appointments Committee](#)
- [MGA Potentials Editorial Board](#)
- [MGA Strategic Planning Committee](#)
- [MGA Student Activities Committee](#)
- [MGA Training Committee](#)
- [MGA vTools Committee](#)
- [IEEE Women in Engineering Committee](#)
- [IEEE Young Professionals Committee](#)

MGA appointments to other organizational unit boards/committees

- [IEEE Conferences Committee](#) (two members)
- [IEEE Educational Activities Board](#) (EAB) (two members)
- [IEEE Publication Services and Products Board](#) (PSPB)
- [IEEE TAB/PSPB Products and Services Committee](#)

Each IEEE Region is encouraged to submit nominations to help ensure that MGA is globally balanced. Self-nominations are encouraged.

The deadline to submit nominations is 1 August 2020.

Sign in with your IEEE account username and password to view "**My Nominations**" under the "**Login**" tab.

[Nominate yourself or a colleague now](#)

IEEE Member and Geographic Activities (MGA) Nominations and Appointments(N&A) Committee

mga-noms@ieee.org



OTHER ARTICLES



6. OTHER ARTICLES

IEEE Leadership Summit: Engineering in COVID-19 First Webinar

A collaboration between IEEE Indonesia Section, IEEE Region 10 and IEEE Singapore Office
Written by Ewell Tan, IEEE Asia-Pacific Office

“When the Most Important Technology is Teamwork”

The global pandemic of COVID-19 has impacted our lives significantly. As we weather the global health crisis together, many of us are adapting ourselves, devising strategies and developing new ways to combat this pandemic. Engineers, researchers, innovators and businesses from various sectors are also working on leveraging technology to alleviate the effects of this unprecedented challenge.

The advancement of technology and digital communication plays a vital role in the current situation where most people have to work from home and students are required to continue their studies through online platforms. With this new model of digitalization in many sectors, IEEE Indonesia Section took this opportunity to organize a webinar series namely IEEE Leadership Summit: Engineering in COVID-19, collaboratively with IEEE Region 10 and IEEE Singapore office (a.k.a IEEE Asia-Pacific office). The first webinar was conducted on 2nd May 2020 to mark the Indonesia National Education Day, with a theme “When the most important technology is teamwork.”

IEEE Indonesia Section Chair, Prof. Wisnu Jatmiko and IEEE Region 10 Director, Prof. Akinori Nishihara delivered welcome remarks and applauded the success of this webinar with 237 participants. To grace the event, Prof. Bambang Brodjonegoro, the Indonesian Minister of Research and Technology, National Research and Innovation Agency gave a keynote address and shared his perspectives on the importance of creating new opportunities, new jobs and new initiatives collaboratively, while we fight this global health crisis. This pandemic is a wake-up call for all sectors; only through collaborative efforts by governments, industries, academics, researchers, scientists, and engineers, can we fight through this together.

IEEE Indonesia Section Industry Relations Chair, Agnes Irwanti presented the activity report of this webinar series. Prominent speakers including IEEE Region 10 Director-Elect, Mr. Deepak Mathur; IEEE R10 Industry Relations Committee Chair, Dr. Chris Lee; Arief H. Gunawan from Telkom Indonesia; Dr. Patrick Liew, the Chairman of GEX Ventures Pte. Ltd. and Dr. Denny Setiawan from the Indonesian Ministry of Information and Communication presented their insightful perspectives on how the technologies, digitalization, engineering and innovation play a part collaboratively to face these global challenges.

After these presentations, Mr. Kuncoro Wastuwibowo from Telkom Indonesia and Dr. Ford Lumban Gaol, the Chapter Chair of IEEE Indonesia Computer Society chaired the open discussion session.

The webinar concluded with a closing remark by Mr. Satriyo Dharmanto from PT. Multikom Global – Indonesia and Mr. Kuncoro Wastuwibowo.

“Through teamwork, we all shall overcome our common enemy together.”

LEADERSHIP SUMMIT
Engineering in Covid-19
First Webinar Series

“When the most important technology is teamwork”

KEYNOTE SPEAKER
Prof. Bambang Brodjonegoro
Minister of Research and Technology
National Research and Innovation
Agency, Republic of Indonesia

SPEAKERS
Prof. Akinori Nishihara
Prof. Wisnu Jatmiko
Agnes Irwanti
Deepak Mathur
Prof. Chris Lee
Arief H. Gunawan
Dr. Patrick Liew
Satriyo Dharmanto
Dr. Denny Setiawan

Indonesia National Education Day
May 2nd, 2020
14:00-15:30 (GMT+7)

Topics:
• How Can IEEE Leverage During Such Challenging Time?
• Bridging Industry, Academia, and Government During & After Pandemic Outbreak via Teamwork
• Teamwork in Engineering: What the Engineer Can Learn from the Global Catastrophical Challenge: Overcoming Covid-19 Pandemic
• Technology is Dead, Long Live Technology: Finding Purpose, Values and Fulfillment Through Technology!
• Broadband Public Policy, Challenge and Opportunity in Covid-19 Era

MODERATOR
Kuncoro Wastuwibowo
Dr. Ford Lumban Gaol

REGISTRATION
<http://bit.ly/IEEE10webinarseries>
Webinar link will be informed to the registered participants.

Organized By: IEEE Indonesia Section, IEEE Region 10, IEEE Singapore Office
Collaboration between Industry Relations, Government Relations and Young Professional Indonesia Section

IEEE Bangladesh Section Co-located Conferences and Workshop

2019 SPICSCON, BECITHCON, PEEIACON, RAAICON, SympSIST and Industry Forum

Prepared by: Celia Shahnaz, Chair for IEEE Signal Processing Society Bangladesh Chapter and S.M. Saiduzzaman, Secretary for IEEE Signal Processing Society Bangladesh Chapter

IEEE Bangladesh Section organized 9 co-located conferences/symposium/events from 28th November to 1st December 2019 at FARS Hotel and Resort. Among them, there were 4 co-located conferences, 1 symposium and 1 Industry Forum which were successfully organized along with 5 technical society chapters. These new initiatives were led by Dr Celia Shahnaz, Chair, IEEE Bangladesh Section. The conferences are listed as below-

- 1. 2019 IEEE International Conference on Signal Processing, Information, Communication & Systems (SPICSCON):** It was organized along with IEEE Signal Processing Society (SPS) Bangladesh Chapter from 28th to 30th November 2019. There were 2 Keynote Speakers – Dr. KVS Hari, FIEEE from India and Dr. Norliza Mohd Noor from Malaysia. There was 1 invited talk by Dr. Debashis Sen, SMIEEE from India. Notable volunteers for IEEE SPICSCON were Dr. Celia Shahnaz (General Chair), Dr. Shaikh A. Fattah (TPC Chair) and S. M. Saiduzzaman (Conference Secretary).
- 2. 2019 IEEE International Conference on Biomedical Engineering, Computer and Information Technology for Health (BECITHCON) -** It was organized along with IEEE Engineering in Medicine and Biology Society (EMBS) Bangladesh Chapter from 28th to 30th November 2019. 2 keynote talks were held in the conference which was delivered by Dr VR Singh, LFIEEE from India and Dr Ricardo Armentano, SMIEEE, IEEE EMBS DL from Uruguay. Notable volunteers for IEEE BECITHCON were Dr. Shaikh A. Fattah (General Chair), Dr. Celia Shahnaz (TPC Chair) and Shajib Ghosh (Conference Secretary).
- 3. 2019 IEEE International Conference on Power, Electrical, Electronics and Industrial Application (PEEIACON) -** It was organized along with IEEE Industry Applications Society (IAS) Bangladesh Chapter from 29th November to 1st December 2019. There were five keynote talks and one invited talk in the conference. The keynote speakers were Dr. Saifur Rahman, FIEEE from USA; Dr. Ronghai Qu, FIEEE from China; Dr. Syed Islam, FIEEE from Australia; Dr. M. Rezwan Khan, SMIEEE from Bangladesh and Dr. Ruomei Li, SMIEEE from China. The invited speaker was Ahmed Y Saber from



USA. Notable volunteers for IEEE PEEIACON were Dr. Celia Shahnaz (General Chair), Dr. Shaikh A Fattah (TPC Chair), Md Mahinur Rahman & Mohammad Muntasir Hassan (Conference Secretaries).

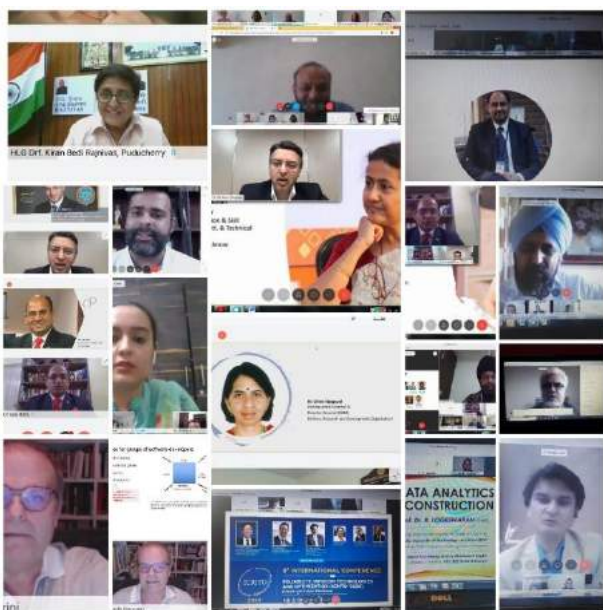
4. **2019 IEEE International Conference on Robotics, Automation, Artificial-intelligence and Internet-of-things (RAAICON)** - It was organized along with IEEE Robotics and Automation Society (RAS) Bangladesh Chapter from 29th November to 1st December 2019. Notable volunteers for IEEE BECITHCON were Dr. Shaikh A Fattah (General Chair), Dr. Celia Shahnaz (TPC Chair), Abul Al Arabi & Abdul Rakib Hossain (Conference Secretaries). During RAAICON, IEEE Robotics and Automation Society (RAS)-Funded Hackathon was also organized.
5. **2019 International Symposium on Social Implications of Sustainable Technology (SympSIST)** – It was organized along with IEEE Society on Social Implications of Technology on 1st December 2019. There were 5 speakers of the event who were from different countries, Dr Albert Ko from Hong Kong; Dr Yoshinori Soshino from Japan; Prof Shivakumar Mathapathi from USA; Dr Shaikh A Fattah & Dr Celia Shahnaz from Bangladesh. Renowned researchers gathered in the symposium to discuss the most recent innovations, trends, practical challenges encountered, and solutions adopted to implement sustainable projects for the welfare of society.
6. **Industry Forum:** To facilitate these events and to develop interaction and collaboration between industry and academia, an **Industry Forum** was also organized during these conferences. Speakers of the forum were Mike Foley, *CEO, Grameen Phone*; Mahtab Uddin Ahmed, *CEO, Robi Axiata Limited*; Md Oli Ahad, *CEO, Intelligent Machines Limited*; S.M. Ashraful Islam, *Vice Chair, eGeneration Ltd*; Farrukh Imtiaz, *Sr. GM, Summit Communication Ltd*; Md. Azmal Huda, *CPTO, bKash Ltd*; Dr Reduan Hasan Khan, *Head of IoT, Grameen Phone* and Zafir Shafee Chowdhury, *Director, Bondstein Limited*.

Overall, the events were attended by 300 participants. There were 124 papers accepted and presented with total number of authors being 581. 18 keynote and invited speakers from 10 different countries namely Bangladesh, India, USA, Japan, Malaysia, Uruguay, Hong Kong, China, Canada and Australia contributed to the event.

ICRITO2020 Conference

Ajay Rana, Volunteer for IEEE Uttar Pradesh Section

Amity Institute of Information Technology, Amity University Uttar Pradesh, Noida, India organized the 8th International Conference on “Reliability, Infocom Technologies and Optimization (ICRITO’2020) (Trends and Future Directions) during 4th to 5th June 2020 in association with IEEE UP Section, India completely on virtual platform. The conference was inaugurated on 4th June 2020 by Chief Guest Dr S Radha Chauhan, Principal Secretary, Vocational & Technical Education, Uttar Pradesh, Guest of Honours Prof SN Singh, Vice-Chancellor, MMM University, Gorakhpur & IEEE India Council Chair and Dr. Chitra Rajgopal, Distinguished Scientist & Director Gen. (RM & IMPL.), DRDO, Ministry of Defence, Chancellor Dr Atul Chauhan, Vice-Chancellor Prof. (Dr.) Balvinder Shukla, Dean & Conference Chair, Prof. (Dr.) Ajay Rana and Conference Co-Chair, Prof. (Dr.) S K Khatri. The valedictory function was graced by the presence of H.E. Lt. Governor of Puducherry, Dr. Kiran Bedi.



The 2-Day conference witnessed participation of top scientists, researchers, scholars & corporate leaders from across the globe, assembled on the virtual platform to share their piece of work and to acknowledge the outstanding work done by others.

Industry engagement is a very challenging section which needs to be clubbed with students’ need & scope for future research. Therefore, to create a bridge between the Academia and Industry, a Mega Leadership Conclave was also conducted over two days of conference by the Institute in association with Amity Technical Placement Centre (ATPC), Amity Education Group’s strongest corporate division which performs market analysis and responsible for optimum

recognition & absorption of students of Amity in the corporate world.

Large number of academicians, researchers, industry experts and young professionals assembled on one platform and deliberated on different areas based on conference themes. More than 1600 papers were submitted in this conference out of which after rigorous review process 263 research papers were accepted, with the acceptance rate of around 18% only. The accepted and presented papers will be submitted to IEEE Xplore Digital Library for publication. Authors from 16 Countries (Romania, Oman, Dubai, US, Italy, Russia, Ethiopia, Malaysia, Bahrein, Australia, UK, Norway, Uzbekistan, India, Bangladesh, Pakistan etc) submitted their research works. Authors of these research papers are from different universities and institutions, research organizations as well as corporate sector of global repute. 22 keynote/invited talks were delivered over the 2-day virtual conference. All the speakers were well renowned academicians and researchers in their respective domains. Speakers were from UK (4), Argentina, Malaysia (2), Australia (2), Oman (3), Japan, Uzbekistan, Italy (2), Jordan, Bangladesh, Iran, USA and Morocco. In total, there were 16 technical tracks in ICRITO’2020. Technical presentations of these research papers were covered under 22 parallel technical sessions. To evaluate and improve quality of technical paper presentations 72 researchers and domain experts from different academic institutions were engaged as session chairs.

CALCON2020 Conference

Tridibesh Nag, Chair for Kolkata Section Newsletter Committee

The 6th IEEE Kolkata Section's flagship conference CALCON2020 was held during 28th – 29th February 2020 at Hotel Senses, Salt Lake, Sector –V, Kolkata-91. The focus of CALCON2020 was the students and young professionals from academics and industry to engage themselves in good research and engineering developments for the benefit of the society. Total number of participants were 312.

Prof. Iti Saha Misra the CALCON2020 Conference Chair and the IEEE Kolkata Section's Vice Chair delivered nice welcome speech elaborating the objective and various aspects of CALCON2020. The Section's Chair, Mr. Sanjay Kar Chowdhury addressed the audience, while CALCON2020 TPC Chair, Prof. Sujit Biswas outlined the technical aspects of the conference. Mr. Ambarish Dasgupta, Member, State Public Policy and Planning, Govt. of West Bengal was the Chief Guest of the conference. He delivered very insightful inaugural address outlining the present technological revolution of Internet of Things, Machine Learning, and Artificial Intelligence. Prof. Chiranjeeb Bhattacharya, Pro-VC of Jadavpur University was the Guest of Honour but could not join the session due to his other urgent occupation. Prof. Souvik Mahapatra from IIT Bombay was the conference special guest.



There were three major engineering Tracks: a) Electronics & Communications Engineering, b) Electrical Engineering, c) Computer Science and Engineering, where 203 valid submissions of technical papers were received. After rigorous reviews and registration, 100 papers were accepted for oral presentation and 9 papers accepted for poster presentation. This implies an acceptance ratio of 53.7%. CALCON2020 was a grand success as 100% of the accepted papers were presented.

Keynote Speech in CSE Track was delivered by Prof. Sanghamitra Bandyopadhyay, Director, ISI Kolkata, IEEE Fellow on “Computer Science Methods to Solve Problems in Biology: Basics & Advancements”. Keynote Speech in ECE Track was delivered by Prof. Souvik Mahapatra; Professor, Department of Electrical Engineering IIT Bombay, India, IEEE Fellow on “Introduction to CMOS Transistor Scaling & Reliability: Basics & Advancements”. Keynote Speech in EE Track was delivered by Prof. Chandan Chakraborty, IIT Kharagpur, also an IEEE Fellow, on “Renewable Energy Integration: Challenges and Opportunities”. Keynote Speech in WIE Special Session was delivered by Dr. Suparna Dhar, Ex-Industry personnel and Assoc. Prof. NSHM, Knowledge Campus, Kolkata, on “Employing Data Analytics to Monitor Organization's Social Media Activity”.

In the Industry Session, several industry personnel from Ericsson: Mr. Indrajit Sanyal, Check Point Software Technologies Ltd.: Mr. Sanjeeb Sengupta, Palo Alto Networks: Mr. Pankaj Chawla, NTT-Cisco: Mr. Rohit Gupta, delivered lectures related to 5G Technology, Network Security, DNS Traffic, and Cyber Security. It was really a pleasant experience to have Mr. Sanjay Das, Joint Secretary, IT and Electronics Govt. of WB as the Industry Session Chair, who conducted the session in a very unique way adding value to the participants. A Student Panel Discussion on a very relevant topic “Is India ready for NexGen Technologies?” was conducted – where students from neighboring Engineering Colleges of Kolkata like Jadavpur University, NSEC, IEM and IIT KGP have joined the panel. Mr. Sanket Sarkar, CEO of a Startup company TeamCognito was the moderator.

WIE TECH and WIE Day Celebrations

Prepared by: Biju K, Vice-Chair for IEEE IA/IE/PELS Kerala Joint Chapter

IEEE IA/IE/PELS Joint Chapter Kerala organized a one-week long WIE program from 2nd to 9th March 2020 as part of the WIE day celebrations. These activities were organized in various IAS SB chapters across Kerala. 8 IAS SB chapters participated.

PRATHIVADH

RSET IEEE IAS (Industrial Applications Society) has set the benchmark for conducting activities in such a way that students not only enjoy the activities but also learn a great deal from it. With the same perspective in view, the debate competition, PRATHIVADH was conducted as a part of Women's day celebration "Femme20" conducted on 4th March 2020.

Women's Day Special Weekly Talk in association with WIE-TEC

In association with WIE-TEC, an SBC-level initiative program by IEEE IA/IE/PELS Joint Chapter Kerala, IEEE IAS SBC RIT organized a Women's Day special technical talk on 7th March 2020 with 50 participants.

IEEE LOGO QUIZ

On 9th March 2020, a logo quiz was conducted by IEEE Industrial Application Society chapter of College of Engineering Karunagappally which focused on testing the ability of students on observing and analyzing the topic 'Women Empowerment' which was held as a part of International Women's Day.

TECH TALK

On 10th March 2020, a technical talk was conducted by Vaidehi C K, IAS Secretary under IEEE IAS SB GCEK on the topic "Women in Industrial Application" as part of the Women's Week activities of IAS Chapter of IEEE SB GCEK

FABRICATE ADEQUATE BASICS

This event was conducted as a first step in training the students to use a 3D printer and was coordinated by the WIE affinity group and IEEE IAS SBC MACE as a part of Women in Engineering Week. The first workshop series of FAB was titled FUSION 360 held on 5th March 2020.

LED Bulb Making Workshop and Awareness Class

On 8th March 2020, volunteers of IEEE Industry Applications Society SBC MBCCET Peermade conducted an event, LED lamp assembly training and Awareness Class on COVID-19 and Energy conservation for Peermade Development Society (PDS). 25 women of the PDS Society benefited.



Opportunities for Women Engineers

As Part of WIE Week Celebration and based on WIE -TEC, an initiative by IA/IE/PELS Joint Chapter Kerala; IEEE Industry Applications Society Student Branch Chapter of College of Engineering Chengannur and WIE Affinity Group, was a tech talk on "Opportunities for women engineers" on 3rd March 2020.

WIE WRITES and Online Group Discussion

IEEE IAS SBC JCET organized an online inter-collegiate event named “WIE Writes” as part of Women’s Day celebration on 5th March 2020. It was an exclusively girl-only program wherein interested girls submit a write-up on the topic, “Me as a girl” (not exceeding 120 words). 28 participants submitted entries.

Her Story

This is an interactive session organized by Women in Engineering affinity group of IEEE Student Branch ASIET, in association with the Industry Applications Society of IEEE Student Branch ASIET, on 9th March 2020 as part of WiE week celebrations. The session was handled by Ms. Megha Ben, who is currently serving as a Technical Sales Support Professional in Siemens Ltd.



The WIE TECH programme which lasted for one week was very useful for IAS WIE members. Over 300 WIE members participated in these programmes.



SECTION AND SUBSECTION ACTIVITIES



7. SECTION AND SUBSECTION ACTIVITIES

Bangalore Section

Chandrakanta Kumar, Joint Secretary for IEEE Bangalore Section

Recent Activities by Bangalore Section

Bangalore Section (India), the winner of 2019 Outstanding Large Section Award among the Sections across the globe, has always been in the forefront in innovative programme design catering to the need of the larger section of IEEE members and the society at large. In the prevailing situation of the pandemic, the Section very quickly adopted to the new normal of delivering the technical content through electronic means. Apart from the regular activities, in time of lockdown, it is even more important to keep the members motivated. More specifically the student-members and faculties need to keep up the momentum of learning and honing and expanding their skillset. The activities of the ever dynamic Bangalore section for the second quarter of the year were aptly designed as depicted in the figure to take care of all those needs.



Bangalore Section is taking lead role in fostering the humanitarian technologies for the people who need them badly. As a precursor to the IEEE Bangalore Humanitarian Technology Conference on 8th to 10th October 2020 in Vijayapura, an array of international experts were brought in during 13th to 23rd April to share their thought to a larger audience through webinars, on the way forward to deliver urban amenities to the rural areas. Gurukul (Sanskrit), loosely translated as 'Place for Learning', is a flagship Webinar series addressing any gap in learning of the final and pre-final year graduate students due to locking down of the institutes. In order to assist them, Gurukul covered courses in standard Engineering Curriculum over a span of almost 20 days through webinar-based learning. Professors from engineering colleges all over Karnataka volunteered to deliver the modules.

The immediate attention is on the students, more specifically those who are not yet IEEE members. About 386 such faculties were brought together under 'virtual faculty conclave' on 25th April. The usefulness of IEEE in the lockdown scenario in disseminating quality education was demonstrated to them, which they felt was very effective and many of them got motivated to join IEEE. While addressing the specific need of students, professional members have also been engaged through high-end technical and management talks. A series of weeklong webinars have been delivered through the SAC, WiE, Industry co-ordination group, and different technical society chapters of the Section. As part of nominal operation, the Section has also successfully conducted the second meeting with the BCs on 18th April and the office bearers of the society chapters on 17th May respectively through WebEx. In another unique way, Bangalore Section has identified the District Coordinators for many districts of Karnataka. This comes out to be very useful in reaching out and addressing the need of the remote part even during lockdown. The enthusiastic members are making sure that the flag of the section fly very high!

Bangladesh Section

Raihan Ur Rashid, Secretary for IEEE Bangladesh Section & A N M Nasimunnabi, Humanitarian Activity Coordinator for IEEE Bangladesh Section

IEEE Region 10 Educational Activity Challenge

IEEE Region 10 Educational Activity Challenge (R10 EAC) was a fantastic event to connect the bridge between the young mind who wish to become an Engineer in the future and the current engineers to inspire them. IEEE Bangladesh Section (IEEE BDS) along with IEEE BDS Educational Activities Committee organized an event on Fire Safety Awareness on 19th December 2019 at Chalaband Government Primary School. Dr. M Tanseer Ali, EAC of IEEE BDS, Md. Ahsan Nahiyen and Ms Shaila Sharmin Mitu acted as the instructors and Mr. SK Adif Farhan helped to conduct the Fire Safety session. After an introduction session, different tasks were given among the students to complete. The best three groups were selected and were given special gifts. The total number of children and their teachers attended the session were 50. After the session, color books and color pencils were given to them as gifts.

Individual Benefits Event

IEEE Bangladesh Section organized IEEE R10 Funded Individual Benefits Event “IEEE Student Training Program” on 19th December 2019 at Southeast University Bangladesh. The event was held in two sessions. In the first session, IEEE Bangladesh Section Chair, Professor Dr. Celia Shahnaz talked about IEEE Bangladesh Section, it’s activities, awards and benefits. She also informed the conference



attendees on IEEE TENSYP 2020 which is going to be organized in Bangladesh on 5th – 7th June 2020. Mr. SM Saiduzzaman, Secretary of IEEE Signal Processing Society Bangladesh Chapter, and Mr. Sazzad Sayyed, Membership Development Coordinator of IEEE Signal Processing Society Bangladesh Chapter, talked about the benefits of IEEE membership. Around 50 participants attended the event.

IEEE Bangladesh Section Award Night and Annual Dinner and Members Congress.

This year IEEE Bangladesh Section celebrated its 25th years and winning MGA Outstanding Large Section award with the last mega event of the year. IEEE Bangladesh Section Award Night and Annual Dinner were held on 25th December 2019 at Grameen Phone House, Dhaka. A total of 210 IEEE members attended the Congress, including Sayef Salauddin, PhD, FIEEE, Professor University of California, Berkeley; Muhammad Mustafa Hossain, PhD, FIEEE, Professor of EEE, KAUST and EECS, UC Berkeley; Dr. Sadia Afroz, Senior Scientist, ICSI & Avast Software; and Dr. Ahmedullah Aziz, Assistant Professor, Dept of EECS, University of Tennessee, Knoxville.

IEEE Bangladesh Section Webinar Series: Fighting Against COVID-19

IEEE Bangladesh Section Humanitarian Activity Committee, SIGHT Group Flash and different student branches of the section organized “IEEE Bangladesh Section Webinar Series: Fighting Against COVID-19” during this pandemic, to engage IEEE members in learning new technologies, exploring different

research avenues and learning different techniques of overcoming new challenges due to COVID-19. A total of 9 webinars were held under this webinar series. IEEE Bangladesh Section could connect 850+ participants through this webinar series, including those from India, Pakistan, China, Belgium and many other countries.

Bombay Section

S.V. Kulkarni, Educational Activities Chair for IEEE Bombay Section

Shifting Teaching-Learning Paradigms through Innovative Pedagogy

IEEE Bombay Section organized a Short-Term Training Program on “Shifting Teaching-Learning Paradigms through Innovative Pedagogy” during 12th – 16th February 2020 at the Department of Electrical Engineering, VNIT, Nagpur. It was a 5-day program having resource persons from IIT Bombay and Vidyalkar Institute of Technology (VIT), Mumbai. Prasanna Chaporkar and Zakir Rather from IIT Bombay, and Beena Ballal, Ashish Shekhar, Vibha Wali, Atul Oak, and Sandeep Wali from VIT Mumbai were the speakers. The coordinators of the STTP program were Arghya Mitra and Makarand Ballal from VNIT Nagpur. S. V. Kulkarni, IIT Bombay, and Saurabh Mehta, VIT, were coordinators from IEEE Bombay Section. Invited speakers focused on teaching-learning scenarios, various strategies for effective teaching, Flip Classroom concept, Problem Based Learning, creating video lectures using online tools, and Class Assessment Techniques tools. Some speakers also gave talks on the technical areas of their expertise. The program was attended by 25 participants.



Hong Kong Section

Leon Lei, Chairman for IEEE Education Society Hong Kong Chapter; Ray Cheung, Secretary for IEEE Hong Kong Section & Philip Woodhead, ExComm for IEEE Consumer Electronics/Oceanic Engineering Hong Kong Joint Chapter

Award-winning Initiative on Empowering Diversified Learners in Hong Kong with IEEE TryEngineering (Sep 2020 – Aug 2021)

The Hong Kong Section educational activities committee has recently received the Winner award for the IEEE Region 10 Educational Activities Challenge (Pre-University Category), for its initiative “Empower Diversified Learners in Hong Kong with IEEE TryEngineering”. Leveraging on the support from the IEEE Region 10 educational activities committee, the Section will launch a series of blended activities for local secondary school students, based on the adaption of IEEE TryEngineering resources. The first theme will be on "Fighting against COVID-19". Besides hands-on workshops, students will be further supported by VR resources, such as visiting a laboratory with a scanning electron microscope. The team will conduct a pilot study in several local schools, and will eventually share the package across Sections in Region 10 and other Regions.

The Future Engineer Grand Challenge (May 2020 – June 2020)

The Future Engineer Project is a National student competition supported by the Ministry of Science and Technology and the Ministry of Education in China. Since 2004, there are over 2 million students nationwide joining this event. The Future Engineer Grand Challenge is organized by the Hong Kong STEM Education Alliance since 2019. IEEE Hong Kong Section is one of the co-organizers with Hong Kong Institution of Engineers (HKIE) and The Institution of Engineering and Technology Hong Kong Section (HKIET), the other two major engineering organizations in Hong Kong. The objective is to advocate the importance of STEM education in Hong Kong and in the world for cultivating young engineers. This year due to the COVID-19 pandemic, the rules of the challenge have been changed from face to face to online presentation. All participants are required to submit the video records that capture the innovative STEM-related project only. In total, the Grand Challenge has received 84 submissions from 11 primary schools and 18 secondary schools in Hong Kong, as compared to 65 in 2019. At last, 6 different student teams were nominated to attend the grand final in Beijing, with 6 grand prizes awarded.



ECF IEEE CE/OES MATE Underwater Robotics Workshop & Comp. (June 2020 - June 2021)

The IEEE Hong Kong Section and IEEE Consumer Electronics/Oceanic Engineering (CE/OES) Joint Chapter were awarded a government Environment and Conservation Fund (ECF) Grant to run the ECF IEEE CE/OES MATE Underwater Robotics Workshops and Competitions for 2020-2021. There is a large demand for underwater remotely operated vehicle (ROV) operators in the oil industry, deep sea exploration, deep sea mining and scientific research projects. Currently, only around 10% of the ocean has been explored. This grant provides 400 young secondary school students the opportunity to explore and advance their knowledge and abilities on underwater robotics and engineering. We aim to nurture and discover future engineers through this grant. Our aim aligns with IEEE's core mission of advancing humanity through technology.

Hyderabad Section

Mousmi Ajay Chaurasia, Execom Member for IEEE Hyderabad Section

IEEE COVID Move INDIA at Hyderabad Section

IEEE volunteers of Hyderabad Section, in collaboration with IEEE India Council Humanitarian Activity Committee, are fighting against the vulnerable Covid-19 virus by launching an initiative called IEEE COVID MOVE (www.ieeecovidmove.in) – a dedicated whereabouts of deadly COVID-19 in India, what to do, where to go, what to rely on and how not to panic! The website and its social campaign have reached more than 10,000 people making an impact to hundreds of people every day by spreading COVID-19 related useful resources in India, information on the do's and don'ts, curbing fake information, and saving lives.

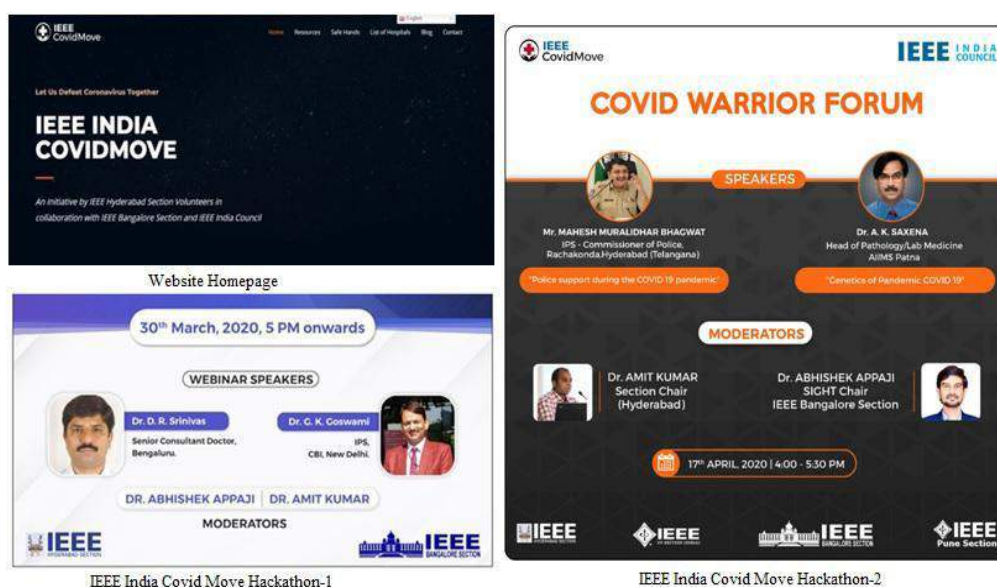
IEEE India COVID Move Hackathon-1

With the rapid outbreak of COVID-19 throughout the world, IEEE India Council took up an initiative to organize the "IEEE India COVID Move - Online Hackathon Challenge" in collaboration with IEEE Hyderabad Section and IEEE Bangalore Section by providing a platform for the young minds to ameliorate their technical dexterity. The 4-day hackathon challenge was conducted on 30th March 2020 and was focused on the advancement of innovative solutions of unmet needs and problems on sudden outbreak of COVID-19 pandemic. Students from India could participate and work as a team towards a

common goal of building successful solutions. The event was preceded by a webinar by Dr D. R Srinivas, Senior Consultant Doctor, Bengaluru India and Dr G. K Goswami a Delhi based IPS officer.

IEEE India COVID Move Hackathon-2

IEEE India Council has taken up an initiative to organize the “IEEE India COVID Move - Online Hackathon Challenge: Edition - 2” in collaboration with IEEE Hyderabad Section, IEEE Pune Section, IEEE Uttar Pradesh Section and IEEE Bangalore Section on 17th April 2020 to provide a platform for the young-minds to uplift their technical proficiency. The 3-day hackathon challenge focused on ideating effective solutions for the problems caused due to the sudden outbreak of COVID-19 pandemic. Team of students across India were open to mentors to seek aid for their effective performance. The Hackathon resulted in students coming out with various productive solutions with new innovations and technologies. The event was preceded by a webinar by Mr. Mahesh Muralidhar Bhagwat – IPS, Commissioner of Police, Rachakonda, Hyderabad and Dr. Ajit Kumar Saxena – Professor & Head Department of Pathology Lab Medicine, AIIMS, Patna.



IEEE India Covid Move Hackathon-1

IEEE India Covid Move Hackathon-2

Webinars

Apart from the above events, Hyderabad Section has organised more than 50 webinars in the past two months on current trends to bridge the gap between industries and academia. IEEE Hyderabad COMSoc Chapter had conducted annual Alexander Graham Bell Memorial lecture on “Estimation and concentration of missing mass” on 2nd May 2020. It was the tenth in the series and Prof. Andrew Thangaraj, Indian Institute of Madras was the speaker for the session. Over 300 participants benefitted and were appreciated by all. IEEE Hyderabad CIS/GRSS Jt. Chapter organised an expert talk on “Successful scientific publishing: from the project to the advertising” on 13th April 2020 by Prof. Alejandro C. Frery, Universidade Federal de Alagoas, Brazil. It was an eye-opener for upcoming researchers. Over 350 participants attended and requested to organise more sessions on similar grounds in the future.

Karachi Section

Tariq Soomro, Vice-Chair for IEEE Karachi Section & M Rafay Shaikh, Sectional Student Representative for IEEE Karachi Section

Webinar on Professional Development



IEEE Karachi Section has started a series of Webinars for the professional development of its members, faculty, industry professionals and students. The first lecture of this series, with the title “Capacity Building in Higher Education and Right Brain Power to Drive the Innovation in 21st Century” was delivered by Professor Dr. Bhawani Shankar Chowdhry, Chair IEEE Karachi Section and Distinguished National Professor, Faculty of Electrical, Electronics and Computer Engineering, Mehran University of Engineering & Technology, Jamshoro, Pakistan on 21st May 2020. His talk summary covered areas such as four

dimensions of knowledge, capacity building in higher education, need of modern teaching methodologies, teachers’ role in learning and innovation, faculty development aspects, collaborative vertically integrated projects, international funding opportunities, scholarships and financial aid, and professional development. He emphasized on the need of student centred learning and becoming member of professional society such as IEEE for enhancing professionalism among engineering students through involvements in technical societies. This in addition to collaborative vertically integrated projects will help to carry out long term collaboration projects between several universities and industry. The Webinar attracted 32 participants (20 IEEE members and 12 non-IEEE members). Professionals and students from Pakistan, Bangladesh, Australia, Korea attended the Webinar.

Branch Chairs’ Meet-Up by IEEE Karachi Section Student Activities Committee

A virtual meet-up with all the Student Branch Chairs within IEEE Karachi Section was organized by Student Activities Committee on 14th May 2020 from 10:30 pm to 12:00 am (PKT, GMT +5:00). During the meeting, introduction session was carried out between the SAC team members and the Branch Chairs. Reports were also obtained from Branch Chairs on all events organized by Student Branches during the pandemic situation. Problems faced by Section due to lack of proper Vtools reporting were discussed. Branch Chairs were explained how this issue causes loss for the Section in terms of rebates. Every Student Branch was encouraged to appoint a Vtools Coordinator as part of their extended ExCom to be responsible for proper and timely Vtools reporting.

The SAC Chair inquired about any internal issues within Student Branches that hindered progress and activities within the branches that the chairs found difficult to resolve on their own. The SAC Team discussed several ideas regarding which type of events can be organized during the Pandemic Situation to promote knowledge. It was decided that all events organized by Student Branches which complied with the SOPs provided by SAC Team would be updated on the Quality Event Counter. An e-certificate will be awarded to the Student Branches for every three of such events as a token of appreciation. Chairs and Branch Counselors of these Student Branches will be greatly appreciated by the Section.

International Conference on Emerging Trends in Smart Technologies (ICETST) 2020

The National University of Computer and Emerging Sciences, Karachi campus in collaboration with IEEE Karachi Section intent to come up with an International Conference on Emerging Trends in Smart Technologies (ICETST) in 2020. It is an integrative platform for researchers, scientists, practitioners, Industrialists, academicians and students to extant their contributions related to the emerging applications, future trends, advancements, innovations and experiences in the areas of computing, mathematics and engineering technologies.

Webinar: Research Project and Grant Proposals by IEEE Karachi Section

IEEE Young Professional Karachi in Collaboration with IEEE Karachi Section organized a Webinar on "Research Project and Grant Proposals". Research project and grant proposals have become expected deliverables from students, researchers and academics. While most applications may just simply follow the guidelines and instructions, there are subtle elements that may determine the success or failure of a proposal. In this talk, Emeritus Professor ChunChe Lance Fung who is the Chair for IEEE Region 10 Educational Activities Committee, shared his many years of experience from being a reviewer of national grant applications, research center director, and associate school dean of research, on the issues related to research proposals. As the Past Chair of the IEEE New Initiative Committee, he was involved in the decision on funding requests ranging from a few thousands to over a million dollars. He discussed about the expectation of the readers and decision makers in the proposals and the process involved. He also illustrated with examples from other countries in addition to Australia. 50 Participants joined this webinar in which 43 were IEEE Members & 8 were non-IEEE Members.

Madras Section

Kumarappan N., Chair for IEEE Madras section

IEEE Madras Section Annual Meet

The annual meet of the IEEE Madras Section (MAS) was held on 7th March 2020 at Anna Centenary Library, Chennai. The new Section Chair, Dr. N. Kumarappan, took over the responsibility, introduced the new executive committee, and presented his plan for IEEE MAS Section growth & development.

IEEE Madras Section Events during COVID Pandemic.

A Webinar on "Controls and State Estimation: Past, Present, and Future" was organized on 2nd May 2020. The event was organized by Dr. Venkatesh Kumar, Chair of Professional Activities committee in which 75 participants attended. The speaker of the event was Dr. P Bharani Chandra Kumar, Professor, and Head, Dept of EEE, GMR Institute of Technology, Rajam, Andhra Pradesh.

A Webinar on "Smart Grid Technology in India" was organized on 6th May 2020 from 5.00 pm to 6.00 pm. The speaker of the webinar was Dr. N. Kumarappan, Chairman, IEEE Madras Section. Dr. Venkatesh Kumar, Chair of Professional Activities committee, hosted the event. 105 participants attended the event and got benefitted out of it.

A Webinar on "Storytelling for Kids" was organized on 10th May 2020. Mrs. K.Meenal, from EGAMS, Manalur, was the invited speaker. Dr. Venkatesh Kumar, Chair of Professional Activities committee, hosted the event. 45 kids participated and benefitted from the event.

IEEE Madras Section Student Project Funding 2019–20

To motivate students, IEEE Madras Section announced the call for student project funding on 29th August 2019, and received 47 project proposals. Nineteen projects were shortlisted, and a pre-final selection demo was conducted through SKYPE on 6th March 2020. The final selection was held on 7th

and 8th May 2020. Four projects were found suitable for certification as well as cash award for the first three places (Rs.10000, 5000 and, 3000).

IEEE Madras Section Faculty development program

An online FDP titled "Electric Vehicle Technology" was organized by Dr. Devaraj from 6th to 9th May 2020. 170 participants, including many senior-level faculty members, HoDs, faculty members from premier institutions, and IEEE Student Branch Counselors, have attended this FDP. The FDP comprised of the following technical sessions: 1." Industry Trends and



Market growth" by Mr. Kirubakaran, CEO, ExpertsHub; 2. "Electric Vehicle Performance and Simulation overview" by Mr. Pradeep Chandrasekaran, G.M., R&D Force Motors Ltd; 3. "Battery Management System for Electric vehicles and energy storage applications" by Mr. Akilan, Grinntech Motor & Services, Chennai; 4. "Infrastructure for vehicle charging" by Mr. Anjaneya Gupta, KPIT Technologies, South Korea; 5. "Dynamics and Architecture of Electric Vehicle" by Dr. S. HosminThillagar, Prof/EEE, Anna University; 6."Automotive Traction Inverters" by Mr. Ashutosh, Z.F.Group, Hyderabad; 7. "E.V. Traction motor design and consideration" by Mr. Ganesh Nagarajan, Director & Country Manager, propelled system's PVT LTD; and 8." Autonomous mobility in Electric Vehicles" by Mr. AjithRaj, ZF Group, Hyderabad.



AFFINITY GROUP AND CHAPTER ACTIVITIES



8. AFFINITY GROUP AND CHAPTER ACTIVITIES

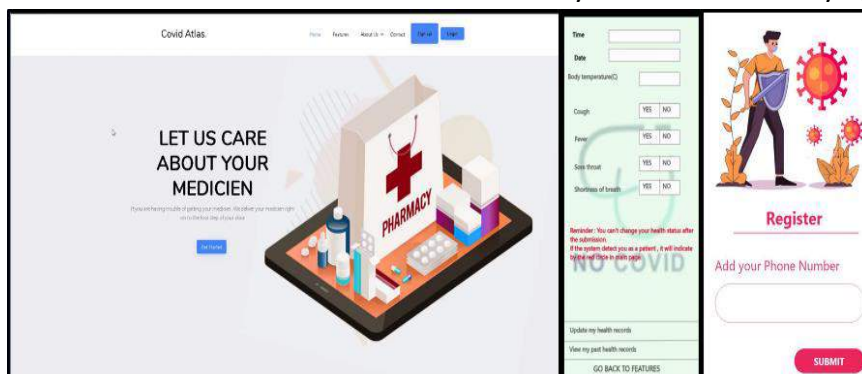
IEEE Women in Engineering Sri Lanka

Tharushi Nathasha, Editor for IEEE WIE AG Sri Lanka

Code with WIE – Let’s Rise Together

The unexpected global pandemic, COVID-19, has brought about complications for many countries that are unique to their local communities. In Sri Lanka, the local communities in different geographical areas suffer from day to day social issues other than the health issues caused by COVID-19. Identifying the current problems that each local community is facing can be very challenging with the limited infrastructure available.

Code with WIE - Let’s Rise Together, organized by the IEEE WIE Sri Lanka Affinity Group in collaboration with IEEE HAC & SIGHT, was aimed at inspiring the



creation of cost-effective, user friendly and easy to implement ICT solutions that will help to improve the quality of life for people in such communities, as well as save those in vulnerable conditions due to situations like COVID-19. This will encourage university students to develop products that solve the critical problems arising due to the COVID-19 pandemic. The applications were opened for IEEE and WIE members together with other individuals for collaborative projects as teams. We received around 12 proposals from teams consisting of undergraduates from various universities. The teams went through an initial prototype/design submission stage where they presented their ideas to the selection board. Six teams were selected to proceed with their work to the finale which will be held on 28th June 2020. At the final stage, an evaluation will take place wherein the teams will be judged based on the final product or prototype which they have come up with. During the final evaluation, the three best products will be selected and they will receive financial aid from IEEE HAC & SIGHT to continue their work for the benefit of their communities.

IEEE Women in Engineering Bangladesh

Nafisa Tasnim, Vice Chair for IEEE WIE AG Bangladesh

COVID 19 Initiatives

IEEE WIE AG Bangladesh Section in conjunction with IEEE Bangladesh Section under WePower initiative conducted two webinars during the COVID 19 pandemic situation. The two webinars were attended by a total of 8 speakers, 33 participants and a moderator. Both the webinars were mentored and led by Dr. Celia Shahnaz, Chair for IEEE Bangladesh Section and 2019-2020 member of IEEE WIE WePower Subcommittee, and moderated by Nafisa Tasnim, Vice Chair for WIE AG Bangladesh Section. The first talk on “Meaningful Engagement of Women in WePower during COVID 19” took place on 20th May 2020. The second talk “Engagement Avenues of Women Work Force in Power and Energy Sector during COVID 19” took place on 21st May 2020.

Project to Product Design Initiative

IEEE WIE AG Bangladesh Section and IEEE Bangladesh Section organized a day-long event on 30th November 2019 funded by IEEE Humanitarian Activity Committee (HAC). The event encouraged participants to think of sustainable solutions to already existing humanitarian problems and introduce them to the process of turning the solution idea into a product,



with the help of established entrepreneurs and mentors. Dr. Celia Shahnaz, Chair for IEEE Bangladesh Section, and 2019 Communication Chair for IEEE SIGHT Steering Committee, and Anamika Bhakta, Chair for WIE AG Bangladesh Section served as General Chair and Program Chair respectively, supported by their team. There were in total 45 participants with 3 mentors, 5 speakers and 6 judges.

IEEE Women in Engineering Gujarat

Foram Rajdev, Chair for IEEE WIE AG Gujarat

Making 'Lockdown' Worthy

WIE AG Gujarat Section is always enthusiastic for conducting various events and members were so excited to execute the plan laid out at the beginning of the current year. Suddenly we had to change the entire plan as we faced the 'lockdown' due to COVID-19. Change is constant and the winners are those who can accept that change. Believing in this we immediately planned for online events. We successfully conducted webinars on topics; "Data driven decision making", "Never too late to start", "Team building", "Today's innovations for future", "Human centered product design", "What makes a humanitarian", "Women in power", "Career in digital marketing", etc. On average 100-120 participants attended these webinars. We also organized self-defense online workshop and virtual singing contest. We have tried to make the best of this 'lockdown' and made it worthy for the members. We have many more exciting online events for the coming days.



IEEE Young Professionals Madras

Karthika A S, Secretary for IEEE YP Madras

IEEE Madras Young Professionals – Building a Generation of Skilled YP

IEEE MAS YP has been organizing webinars focused on building a generation of Skilled YPs:

1. “Exploring IEEE Power & Energy Society” on 16th May 2020. Speakers were Mr. Juan Carlos Montero, Vice President, Membership and Image, IEEE PES and Mr. Ajay Kumar, Chair for IEEE PES Day 2020.
2. “Effective Online Teaching and Student Engagement” in collaboration with IEEE Madras Section on 9th May 2020. Speaker was Dr. M. Venkatesh Kumar, Assistant Professor (Sr.G) Dept of EEE, Amrita School of Engineering, Chennai, Chair Professional Activities-IEEE Madras Section, Vice Chair IEEE PES Madras Chapter.
3. “Exploring IEEERegion10 Awards-Phase II” on 8th May 2020. Speakers were: Prof. Elmer Dadios, Chair IEEE R10 Awards and Recognition, Dr. Saaveethya Sivakumar, IEEE R10 Regional Student Representative and Dr. Abhishek Appaji, Winner of IEEE R10 YP Volunteer Awards (Academia).
4. “Navigate your Career during COVID-19” on 26th April 2020. Speaker was Mr. Nivas Ravichandran, Startup Partnerships and Growth, Fresh work.
5. “IEEE SMART Village-Humanitarian Activities” on 25th April 2020. Speaker was Mr. Farid Khan, Chair for IEEE SMART Village-South Asia Operations.
6. “Exploring IEEERegion10 Awards-Phase I” on 21st April 2020. Speaker was Professor Dr. Celia Shahnaz, Chair for IEEE Bangladesh Section.
7. “Exploring Careers: Engineering Graduates in Public Policy” in collaboration with IEEE Madras Education Society Chapter on 18th April 2020. Speaker was Ms. Vineesha Badabhagni, Social Research Data Scientist, City Government of Philadelphia.



IEEE Young Professionals Sri Lanka

Savini Abayaratne, Editorial and Content Writing Team Lead for IEEE YP SL LETs Talk

IEEE YP Sri Lanka’s LETs Talk Continues its Legacy in 2020

Continuing its streak for the 4th year, LETs Talk series successfully completed its 6th and 7th sessions, “Mani Talks Money” and “Corona is not the Only Virus” on the 8th April and 19th May 2020. Both sessions were conducted online due to the pandemic and addressed timely issues.

Mr. Manosh Kulaseena graced the “Mani Talks Money” session as the speaker, focusing on “how to boost your family financial immunity during a crisis” since the lockdown compelled people to take drastic actions financially, leaving them in bitter

circumstances. “Corona is not the Only Virus” panel discussion was conducted to spread cybersecurity awareness among the young professionals, required to work online from home despite cybersecurity threats. The panel included prominent cybersecurity experts, Messrs. Sujit Christy, Kavinga Abeywardena, Mohan Chathuranga and Kanishka Yapa. These sessions attracted 150 live participants. This series of LETs talk events will be continued throughout the year.

IEEE Young Professionals Malaysia

Haroon Rashid, Chair for IEEE Young Professionals Malaysia

Webinars on Advancing Your Career with IEEE, and Novel Cuts of Quartz Crystal for Sensor Applications

On 15th May 2020, IEEE Young Professionals (YP) Malaysia in collaboration with IEEE Malaysia Sensors & Nanotechnology Joint Council organized two webinars via Cisco WebEx Meetings. At first, Dr. Haroon Rashid, the Chair of IEEE YP Malaysia presented a motivational talk on Advancing Your Career with IEEE (A Journey of Learning to Leadership) and then Prof. Dr. Ji Wang from Piezoelectric Device Laboratory of Ningbo University, China presented a technical talk on Frequency-Temperature Relations of Novel Cuts of Quartz Crystal for Sensor Applications. The sessions were LIVE streamed via YouTube, and the recordings can be accessed at <https://youtu.be/Y2NDYDM1tVE> and https://youtu.be/206V_3ckzTc, respectively. Over 150 participants from 21 countries joined the webinars and learnt about IEEE, its benefits & leadership path, and newly discovered cuts of quartz crystals for various applications with wide operating temperatures for sensors in gas and petroleum industries.



IEEE Life Members AG Tokyo

Naohisa Ohta, Secretary for IEEE LMAG Tokyo

LMAG Tokyo’s Technical Tour to Mt. Fuji Radar Dome (IEEE Milestone)

IEEE LMAG Tokyo held a technical tour to Mount Fuji Radar Dome in Fuji-Yoshida on 30th August 2019, with 18 participants. The event was co-sponsored by the History Committee and the TPC of IEEE Tokyo Section, and cooperated by IEICE Tokyo Section. Completed on the top of Mt. Fuji in 1964, the radar system successfully played a role of “Typhoon Observation Fort” for 35 years. The radar system was awarded IEEE Milestone in 2000 and was moved to the current facility for opening to public. By request from LMAG Tokyo, Mr. Koichi Hirashima of Mitsubishi Electric Corp., an expert of weather radar, kindly participated in this tour to guide us. The participants enjoyed the story on how the engineers were challenged to construct the radar system on the top of Mt. Fuji and experienced the severe environment in the simulation room. *Photo: Radar Dome Museum with Prof. Ohta and Mr. Hirashima in front.*



IEEE PES Malaysia Chapter

Haroon Rashid, Students & Young Professionals Activities Chair for IEEE PES Malaysia Chapter

IEEE PES Day 2020 Technical and Educational Activities in Malaysia

In conjunction with IEEE PES DAY 2020, IEEE Power and Energy Society Malaysia Chapter, in collaboration with IEEE Young Professionals Malaysia, IEEE Multimedia University (MMU), Universiti Teknologi MARA (UiTM) and Universiti Kebangsaan Malaysia (UKM)) Student Branches and IEEE PES (MMU and UiTM) Student Chapters, organised a series of webinars via Cisco WebEx Meetings.



A team of IEEE PES Day Ambassadors led by Dr. Haroon Rashid successfully hosted 18 events during April (on 10th, 22nd – 25th and 27th – 30th) & May (on 8th, 11th and 19th) 2020, which were LIVE streamed via YouTube as well (recordings can be accessed via <https://bit.ly/PESDay2020MY>). The guest speakers were invited from academia (Prof. Dr. Wei-Jen Lee from the University of Texas at Arlington, Dr. Che Hang Seng & Dr. Mahdi Tousizadeh from University of Malaya, Assoc. Prof. Sr. Dr. Norngainy Binti Mohd Tawil, Dr. Ramizi Bin Mohamed and Dr. Abdul Hadi Azman from UKM etc.) and industry (Dr. Bhaba Das from ABB Group, Mr. Eric Koenig from Schneider Electric, Dr. Amir Hisham Hashim from UiTM Solar Power Sdn. Bhd. etc.) to cover vast range of topics for global audience. The webinars received enormous response, over 2000 registrations were received from 19 countries across IEEE Region 8 and Region 10, and nearly 1300 attendees including students, academicians and engineers were benefited.

IEEE PES Sri Lanka Chapter

Akila Wijethunge, Secretary for IEEE PES Sri Lanka Chapter

Webinar Series Attached to PES Day 2020



IEEE PES Sri Lanka Chapter successfully organized a webinar series as part of the IEEE PES DAY 2020 in the month of April 2020 via the online platform. The first webinar was held on the topic “Renewable Energy for Developing Countries” on 19th April 2020 by Mr. Ranishka Wimalasena, Energy Specialist, ADB. The second webinar on “Status of Implementation of Energy Efficiency Initiatives” presented by Dr. Tilak Siyambalapitiya, the Managing Director of RMA (pvt) Ltd was held on 24th April 2020. The third webinar was organized on 30th April 2020. Prof. Janaka Ekanayaka, Fellow IEEE, Chair

Professor, University of Peradeniya conducted the webinar on “How to be a Good Researcher”. All the webinars were presented from 6.00pm to 7.00 pm IST (GMT +5.30) and the audience was composed of around 150+ international and local participants. All the Webinars were followed by Q/A sessions.

IEEE PES Kerala Chapter

Raheema Shoukath, Newsletter Editor/Content Writer for IEEE PES Kerala Chapter

Robo Hand Sanitizer Challenge

IEEE PES YP Kerala Chapter launched the “Robo-Sanitizer Challenge”, a joint initiative to break the chain and stop the spread of COVID-19. The kick-off webinar was conducted on 23rd March 2020 demonstrating the manufacturing of an automatic hand sanitizer. It was handled by Er. Anish MS, with a total of 60 attendees on Cisco WebEx. Social media was behind many challenges but there was one that stood out. A number of 19 Student Branches across the Kerala Section took part in the challenge to build their versions of Robo Sanitizers and began installing the systems in areas where the public could access the convenience of an automated hand sanitizer. The challenge was mentioned in various online and print news platforms including, The NewsMinute and various regional and national newspapers.



IEEE RAS Malaysia Chapter

Mohamed Khan, Chairman for IEEE RAS Malaysia Chapter

2020 FYP Competition at UNITEN

The event was sponsored by IEEE Malaysia RAS Chapter and IEEE UCSI Student Branch and was held at the College of Engineering, Main Hall, Universiti Tenaga Nasional (UNITEN) on 11th February 2020. This event was an annual event conducted by the Faculty of Engineering, UNITEN. The main objective was to showcase the student final year projects from various engineering faculties, which



provides a platform for the students to demonstrate their innovative knowledge. The event was represented by more than 25 teams. Before that all the panel judges from industries and academic side were well briefed by Dr. Zafri, senior lecturer in the engineering faculty about the rules and the terms. Each student team was given 20 minutes to explain their projects which includes 5 minutes Q/A session. At the end the top three teams were selected for the awards. Dr. Mohamed Khan from UCSI University who is also the Vice Chair for IEEE RAS Malaysia Chapter was invited as one of the panel judges representing the chapter.

Workshop and Technical Talk on FURHAT and PEPPER Service Robots

The event took place on 10th February 2020 at UCSI University with the involvement of IEEE UCSI Student Branch. The workshop started with a welcoming speech by the event chairman Dr. Khan. During the workshop students from various engineering disciplines were taught the working principle and the design and applications of two different service robots manufactured by different companies. It was the first time all the students were given a hands-on working exposure to both FURHAT and PEPPER Robots. Programming concepts about the robot arm of the mobile robot were also explained. Dr. Khan took this opportunity to explain his own project on robotic exoskeleton used for medical rehabilitation techniques. The benefit of being a professional member in IEEE and IEEE RAS Malaysia Chapter were also briefed to 60 attended students.

Technical Talks at Universiti Teknologi Petronas

Two technical talks were conducted at the Universiti Teknologi Petronas. In the first talk on 5th February 2020, Prof. Tan Maw Pin from the University of Malaya delivered a lecture on AI Techniques, Cerebral Blood Flow. In the second talk on 5th March 2020, Dr. Firdaus from the General Hospital Kuala Lumpur gave a talk on Engineering in Medical Research. For each event 40 participants attended.

IEEE RAS Bangladesh Chapter

Mohammad Zakaria Haider, Treasurer for IEEE RAS Bangladesh Chapter

IEEE RAS Hackathon 2019



IEEE RAS HACKATHON 2019 was held in Dhaka on 29th November 2019, organized by IEEE RAS Bangladesh Chapter and supported by IEEE Bangladesh Section, collocated with four IEEE Conferences (RAAICON, BECITHCON, PEEIACON, SPICSCON). Around 60 participants from different student branches along with international participants from different countries formed 15 different groups to participate in

the 24-hour long intensive hackathon. The members of the Champion Team ENIGMA are Ashiqur Rasul, Himaddri Roy, Maisoon Rahman and Prasun Datta. The 1st Runner Up team OBHIJAATRIC consisted of Hossain Md. Sabir, Md. Fatin Ishmam and Md. Mustafizur Rahman. The 2nd Runner Up team INSURGENT consisted of Shubham Mahajan, Nahiyen Bin Noor and Tanvir Raihan Khan. Md Zakaria Haider and Abul Al Arabi presided over the whole hackathon. IEEE RAS Bangladesh Chapter prompted gratitude to Dr. Celia Shahnaz and Dr. Shaikh Fattah, respectively the Vice-Chair and Chair of IEEE RAS Bangladesh Chapter, who pioneered the idea and vision of such a hackathon.

IEEE AESS Bangalore Chapter

Pavan Kumar Beechiganapalli, Secretary for IEEE AESS Bangalore Chapter

Webinar on Satellite Navigation: Indian Paradigm

As a part of IEEE Bangalore Section - Chapter Webinars, a webinar was organized on 14th May 2020 by IEEE AESS Bangalore Chapter. The topic of the webinar was "Satellite Navigation: Indian Paradigm" by Dr. Surendra Pal, FIEEE. The webinar was attended by more than 300 participants from industry and academia from all over the country. The lecture spanned over two hours providing historical perspective of satellite navigation, its



importance and explaining the country's stand in satellite navigation program. The talk was well-received by the participants.

IEEE CIS Bangalore Chapter

Vijaya Kumar B P, Chair for IEEE CIS Bangalore Chapter

Edge Intelligence and Computing Workshop

Edge computing is transforming the way data is being handled, processed, and delivered from millions of devices around the world. While edge intelligence is to enable and realize the true value of the Internet of Things, edge intelligence pushes processing for data intensive applications away from the core of the cloud to the edge of the network. Users get real-time insights and experiences delivered by highly



responsive and contextually aware apps. The workshop, held on 22nd January 2020, aims at exposing the participants to the principles of embedded systems, application of embedded systems and data intelligence and a set of tools that is necessary to understand those principles. Topics covered include Embedded Linux, Systems Thinking, Edge Intelligence, Machine Learning, Deep Learning, Internet of Things, Embedded Wireless Sensor Networks, Power Management, Edge Computing, Data Collection, Optimization, Security in Edge Intelligence, Embedded and Sensor Devices using MQTT.

IEEE CAS Bangalore Chapter

Devesh Dwivedi, Chair for IEEE CAS Bangalore Chapter

IEEE CAS Bangalore Chapter New Executive Committee

AGM virtual Meeting was held on 28th April 2020 in the presence of Prof. Lawrence Jenkins (IEEE Bangalore Section Chair, 1996-1997), Dr. S Pal (IEEE Bangalore Section Chair, 2004-2005), Dr. Ramakrishna K (IEEE Bangalore Section Chair, 2008-2009), and Dr. Puneet Mishra (IEEE Bangalore Section Chair). A total of 20 members attended the AGM. Prof. Lawrence, the Nomination Committee Chair announced the new Executive Committees: Dr Devesh Dwivedi, Chair; Dr Jalaja S., Chair-Elect; Mr Aloke Kumar Das, Vice-Chair; Dr Parameshachari B. D., Secretary; and Mr Ayan Datta, Treasurer. The mission of the chapter is to build a sustainable ecosystem to foster innovation, learning and knowledge sharing in the field of circuit and system through active participation from academia, Industry and interdisciplinary community in Karnataka. The vision of the chapter is to build a vibrant CAS chapter dedicated to the technical advancements, innovation and learning in the field of Circuits and Systems.

IEEE IAS Bangladesh Chapter

Sk Azmaeen Bin Amir, Secretary for IEEE IAS Bangladesh Chapter

IEEE IAS Bangladesh Distinguished Lecture



An IEEE IAS Distinguished Lecture took place on 1st December 2019 at ECE Building, BUET, Dhaka, Bangladesh. The lecture was given by Professor Ronghai Qu of Huazhong University of Science & Technology, Wuhan, China. The lecture was on 'Flux Modulation Machines' and the speaker presented them from the principles, features to topologies. After a short introduction, the talk focused on the difference between

traditional machines, operation principles, topologies, and recent progress in flux modulation principle including double modulation. Linear and superconducting vernier machines were also discussed. There were 45 participants in total. Prof. Dr. Celia Shahnaz, Chair of IEEE Bangladesh Section and IEEE IAS BD Chapter; Prof. Dr. Shaikh Anowarul Fattah, Vice-Chair of IEEE IAS BD Chapter; Prof. Dr. Md. Shafiqul Islam, Head of the Department of EEE, BUET and some other faculty members were also present.

IEEE SPS Bangladesh Chapter

S.M. Saiduzzaman, Secretary for IEEE Signal Processing Society Bangladesh Chapter

Distinguished Lecturer Program 2019 by IEEE SPS Bangladesh Chapter

IEEE Signal Processing Society (SPS) Bangladesh Chapter, IEEE Bangladesh Section and Department of EEE, Bangladesh University of Engineering and Technology (BUET) arranged an IEEE SPS Distinguished Lecturer



Program on 18th December 2019 at the Department of EEE, ECE Building, BUET, Dhaka, Bangladesh. The Speaker was Dr. Anna Scaglione, FIEEE from Arizona State University, USA. The topic was "Modeling and learning social influence from opinion dynamics under attack". Prof Celia Shahnaz, Chair for IEEE SPS Bangladesh Chapter presided over the whole session. There were 40 attendees in the event. At the end of the talk and the interactive question-answer session, Prof Celia Shahnaz inspired the participants about the interesting research works that were introduced in the talk and apply them for communities and local societies. She inspired everyone to integrate the inspirations and conceptions of the workshop to their future works and to get in touch with Professor Anna to interact regarding further collaboration.

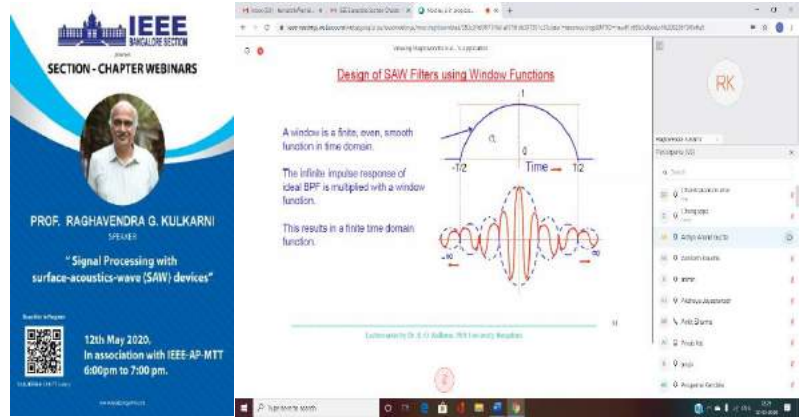
IEEE AP/MTT Bangalore Jt. Chapter

Chandrakanta Kumar, Secretary for IEEE AP/MTT Bangalore Jt. Chapter,

Webinar on Signal Processing with Surface Acoustics Wave (SAW) Devices

As an effort to enhance the knowledge base of its members even during the time of lockdown, IEEE AP/MTT Bangalore Jt. Chapter in association with the IEEE Bangalore Section organized the expert talk on a very specialized domain of SAW filter delivered by Prof. Raghavendra G. Kulkarni on 12th May 2020 and attended by 93 participants. This talk discussed starting from the basic design aspects to the state

of the art in the SAW filter design methodologies. It talked about different types of signal processing functions leading to asymmetric SAW filter design. The specific requirements from SAW filter applicable in different practical system including hand held devices, RADARS, spacecraft transponders, RFID tags, etc. were also discussed in detail. Technique of reducing the loss using the reflector in the design also was discussed. The WebEx recording of the talk can be accessed through the link:

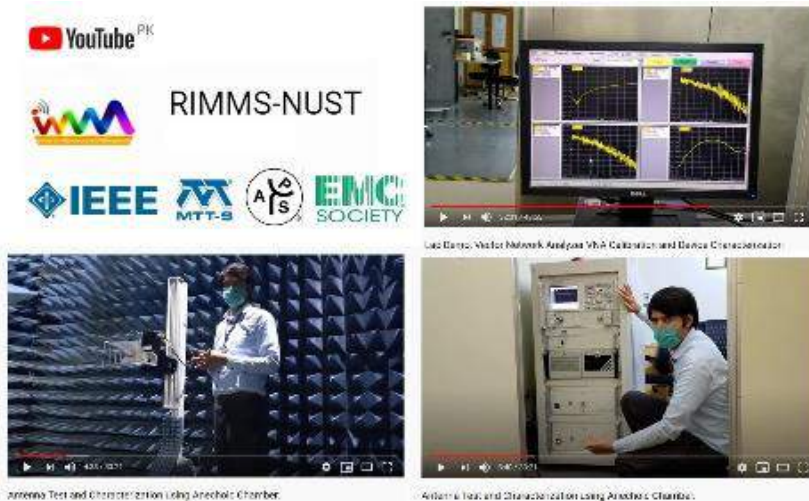


<https://ieeemeetings.webex.com/recordingservice/sites/ieeemeetings/recording/play/4c120f60fd5d4d76be90e72a0a73f9cd>

IEEE AP/MTT/EMC Islamabad Jt. Chapter

Noshawan Shoaib, Chair for IEEE AP/MTT/EMC Islamabad Jt. Chapter

Online Education Initiatives



The COVID-19 pandemic has affected various sectors of life especially the education sector. The online education is widely adopted to cope this problem. In this context, the IEEE MTT/AP/EMC Islamabad Jt. Chapter has created a YouTube channel titled “RIMMS-NUST”. Via this channel, the chapter aims to promote the detailed videos on sophisticated RF equipment and facilities available at Research Institute for Microwave and

Millimeter-Wave Studies (RIMMS), NUST, Islamabad. These videos are useful for RF engineers and, in particular, the students who don't have access to specialized RF equipment during the pandemic. Two detailed videos titled “Vector Network Analyzer (VNA) Calibration and Device Characterization” and “Antenna Test and Characterization using Anechoic Chamber” are already posted. More videos on RF equipment and facilities will be posted soon. The channel can be assessed at:

<https://www.youtube.com/channel/UCJwLZRzXwXUZx0yQJ8vMCIA>

Outstanding APS Chapter Award for 2019

The IEEE MTT/AP/EMC Islamabad Jt. Chapter at NUST-RIMMS was awarded the “Outstanding APS Chapter Award for 2019” from IEEE AP Society among existing AP chapters worldwide, for its exceptional activities and performance. The outstanding chapter award consists of a plaque, prize money of USD \$1000, and grant of travel expense to APS conference (max USD \$1950). It is indeed a great moment and a big achievement for the chapter. Previously the chapter was also awarded “Outstanding MTT Chapter Award for 2018” by IEEE MTT society. The chapter would like to thank all volunteers and will continue its efforts to bring change in the community.



STUDENT BRANCH AND STUDENT CHAPTER ACTIVITIES



9. STUDENT BRANCH AND STUDENT CHAPTER ACTIVITIES

IEEE AIUB Student Branch [Bangladesh Section]

Fardeen Mahbub, Publication Coordinator for IEEE AIUB Student Branch

Live Talk Show - 'An Hour with The Volunteers'



IEEE AIUB SB took the bold initiative of bringing up a weekly Live Show titled "An Hour with The Volunteers" to engage the members during the global crisis of COVID-19 pandemic. This weekly live show was launched on 22nd May 2020, Friday at 10 PM (GMT +06), and have successfully been organized every Friday at the same time to date. The show had some renowned individuals of IEEE as speakers; including Shams Shad Islam Khan, Secretary of IEEE R10 SAC. The speakers shared their IEEE volunteering experiences and also motivated the

viewers for involving themselves in various IEEE Activities. The show is broadcasted from the official Facebook Page of IEEE AIUB SB and it is also shared by the official pages of other branches in the IEEE Bangladesh Section. The show received a vast response with every episode having 3500+ live audience and 5500+ total views on average.



IEEE AIUB WIE Student Chapter Online Article Contest



The IEEE AIUB SB WIE Affinity Group successfully organized an online Article Writing Contest exclusively for female participants on the topic- 'Save the World from an Epidemic (COVID-19)'. The contest started from 31st March 2020 and ended on 11th April 2020, intending to enable the participants to know more about COVID-19 and the ways of protecting themselves from it, as well as to boost their writing skills. More than 40 female participants took part in this competition. Through their writing, they shared their ideas on how to create social awareness and the ways the world can overcome this crisis. The panel of judges consisted of Tasnuva Tasneem, WIE Coordinator for IEEE AIUB SB, and two other judges. The judgments of the writings were made based on certain criteria and the top 3 write-ups achieved the "Best Articles" award. The top 3 participants were presented with Certificates of Appreciation and other exclusive prizes.

IEEE UAP Student Branch [Bangladesh Section]

Syeda Jannatul Ferdaus, Publicity Head for IEEE University of Asia Pacific Student Branch

IEEE Day Celebration at IEEE UAP Student Branch



IEEE UAP SB accompanied by IEEE UAP SB WIE AG commemorated the 10th IEEE Day on 24th, 26th and 27th October 2019 with assemblage of events. Day 1 and 2 included an introductory seminar on research paper publication, a workshop on Adobe Illustrator, an informative session on IEEE and an intra-university programming contest. Those sessions were conducted by branch counselor, WIE AG advisor, former and current Excoms. On day 3 speakers from IEEE Bangladesh Section were invited. Sujan Sarker, Publicity Coordinator for IEEE CS Bangladesh Chapter discussed membership benefits of IEEE and the formation requirements of CS Student Chapter. Abul Al Arabi, Secretary for IEEE RAS Bangladesh Chapter imparted speech on robotics and automation technology field in the context of Bangladesh and international circumstances. With spontaneous participation of students and faculties, the 3-day extensive program was settled with contest prize giving followed by farewell of departing Excoms and a ravishing cultural program.

IEEE BUET Student Branch [Bangladesh Section]

Satyaki Banik, Chair for IEEE BUET Student Branch; Suhee Sanjana Mehjabin, Chair for IEEE BUET SB WIE AG & Sheikh Asif Imran, Chair for IEEE BUET SPS Student Chapter

IEEE SPS Winter School 2019 on Multimodal Signal Processing: First Time Ever in Bangladesh

IEEE BUET Student Branch, IEEE SPS BUET Student Chapter, IEEE SPS Bangladesh Chapter & IEEE Bangladesh Section have jointly organized the IEEE SPS Membership Board-funded IEEE SPS Winter School on Multimodal Signal Processing in Bangladesh, from 28th November to 1st December 2019 at FARS Hotel & Resorts, Dhaka, Bangladesh. Different sectors of Multimodal Signal Processing (MSP), for instance, Machine Learning, IoT Platform for MSP, Pattern Recognition, and Multimodal Emotion Recognition were introduced to the 57 participants from 11 universities of Bangladesh and India. There were 7 speakers from 4 countries, from both academia and industry. The instructors were Dr. Norliza Mohd Noor, Dr. K. V. S. Hari, Dr. Debashis Sen, Dr. Shiva Mathapathi, Dr. Reduan Hasan Khan, Dr. Ricardo Armanteno, Dr. V.R.Singh, Dr. Shaikh Anowarul Fattah, and Dr. Celia Shahnaz. Participants were encouraged to learn through a series of quizzes held between the classes. Best performers were awarded with certificates at the end of the school.



Celebration of International Women's Day 2020: “Engage and Empower Women in STEM Education, Power and Energy Sector Institutions”

IEEE BUET WIE Student AG, IEEE WIE Bangladesh AG, IEEE BUET Student Branch and IEEE Bangladesh Section jointly celebrated the International Women’s Day 2020, on 13th March 2020 at Council Bhaban, BUET, Dhaka, as an



acknowledgement of its notion regarding women empowerment in STEM. The event was supported by WePower, the World Bank Initiative. The Chief Guest, Prof. Dr. Saiful Islam, Honorable Vice Chancellor of BUET and Mohammad Anis & Sabah Moyeen from The World Bank graced the inaugural ceremony. The event commenced with an opening remark from Dr. Celia Shahnaz, Chairperson for IEEE Bangladesh Section on the “Vision of WePOWER Network”. Next, Dr. Shaikh Anowarul Fattah, Professor at EEE, BUET, conducted a plenary session with panelists from academia and industries, discussing the prevailing issue regarding practices endorsed by academia and industries to ensure maximum participation from women. 43 professionals from 20 industries and 104 students from 23 universities participated in this successful program.

Technical Talk on Convolutional Coding for Distributed Matrix Computation

IEEE SPS BUET Student Chapter, IEEE BUET Student Branch, IEEE Bangladesh Section and IEEE SPS Bangladesh Chapter arranged a technical talk on 29th July 2019 on convolutional coding for distributed matrix computation by Anindya Bijoy Das, PhD student at Electrical and Computer Engineering, Iowa State University. The event was arranged as an additional segment to the orientation of IEEE members and executive committee of IEEE BUET SB, WIE AG and technical chapters for 2019-20.



The speaker’s current research focus is in the area of convolutional coding with his PhD supervisor Professor Dr. Aditya Ramamoorthy. Professor Dr. Celia Shahnaz, Chairperson of IEEE Bangladesh Section and advisor for IEEE SPS BUET Student Chapter, was present during the talk. 65 participants, including students and faculty members, attended the event. The speaker also inspired the students to attend technical conferences to be updated with interesting research trends.

IEEE University of Ruhuna Student Branch [Sri Lanka Section]

Piyumi Weeraarachchi, Secretary for IEEE University of Ruhuna IAS Chapter

Workshop Series on DIALux



The workshop of DIALux was organized by IEEE University of Ruhuna Student Branch on 3rd January 2020 at the Faculty of Engineering, University of Ruhuna. The workshop was requested by the students as the software is a leading software for lighting design. The software includes the capability of calculating and visualizing light for a particular structure and it is being used worldwide for light planning. About 70 undergraduates participated in the workshop from both disciplines; electrical

engineering and civil engineering. The student branch has conducted more workshops on trending software in modern technology with the guidance of the experts of field. For the workshop on DIALux, the feedbacks from participants and instructors of previous workshops were being considered. The workshop was conducted for 4 hours by well experienced postgraduates of the university. The session was a significant platform for students who are beginners to develop their skills.

IEEE University of Kelaniya Student Branch [Sri Lanka Section]

Shehara Grabau, Secretary for IEEE University of Kelaniya Student Branch

RealHack 2.0



RealHack, the 24-hour Inter-University Hackathon was organized for the second consecutive year by the IEEE University of Kelaniya Student Branch. The event was co-organized by the Software Engineering Students' Association of the University. 280 teams of undergraduates from both government as well as private universities registered for RealHack 2.0. The Final Hackathon commenced on the 7th November 2019 at Sri

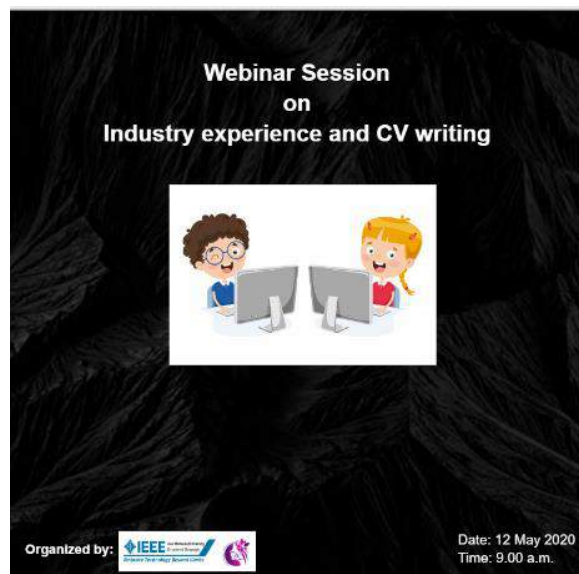
Dharmaloka Hall, University of Kelaniya with the participation of the 15 final teams. A problem statement was given to the finalists and the teams were given the challenge of proposing and implementing a software solution for a real-time question and answer site. The Hackathon was conducted in 5 milestones and the progress of each team was evaluated at the end of each milestone throughout the Hackathon. Team Debuggers from the University of Sri Jayewardenepura emerged as Champions of RealHack 2.0 and the organizers received positive feedback from the participants.

IEEE Uva Wellassa University Student Branch [Sri Lanka Section]

Chamali Basnayake, Secretary for IEEE Uva Wellassa University Student Branch

Webinar Session on Industry Experience and CV Writing

In recent days Sri Lanka is struggling to eradicate Covid-19 epidemic out of the community. The usual practice of the government university system is interrupted because of this issue. From IEEE Uva Wellassa University Student Branch, we put our effort to aid the undergraduates to improve their career path even though they cannot enroll with university studies. We have organized a webinar session for our university undergraduates mainly focusing on final year undergraduates on the topic “Industry experience and CV writing” on 12th May 2020. Invited resource speaker Prasanna Vaikunthavasana from 99X Technology (Pvt) Ltd hosted the session. 85 participants engaged with the session and obtained knowledge regarding what to include and exclude in a resume and the difference between a curriculum vitae and a resume. It was a great experience for all the participants.



IEEE University of Moratuwa Student Branch [Sri Lanka Section]

Dinithi Amarasinghe, Organizing Director for IEEE WIE Sri Lanka

HackDown 2020: An effort to make the Lock Down worthwhile

“HackDown 2020”, a 3-hour coding competition organized by the IEEE University of Moratuwa WIE Affinity Group with Miss Tharani Karunathilaka as the event chair, was held on 25th April 2020, from 2.00 PM to 5.00 PM, through the HackerRank platform. This competition was open to all undergraduates; the main focus being bringing out the coding skills and analytical skills of female undergraduates of Sri Lanka. Team registrations were done as 2 members per group, with a female leader. The number of total registrations exceeded 500 within 3 days. Parallel to the main competition, a selfie contest was conducted through the Group’s Facebook page. The teams were invited to post a team selfie on the page, and the most popular selfie was selected as the winner. All the contestants participated from their homes, practicing social distancing as per government regulations. Three winning teams were selected at the end of the 3 hours.



IEEE SLTC Student Branch [Sri Lanka Section]

Thuwaraha Suntharalingam, Head of Reporting Committee for IEEE SLTC Student Branch

INCIPERE, Knowledge Hub and GISLA

The IEEE SLTC Student Branch organized INCIPERE, Knowledge Hub and GISLA events successfully. INCIPERE was an FPGA workshop which was held on 16th December in SLTC premises. It was conducted by the lecturers in SLTC as well as personnel from the industry with the expertise in the related fields. Over 90 students participated in this workshop.

Knowledge Hub workshop was proposed to cover Circuit Analysis. It was conducted under the guidance of engineering undergraduates. The workshop was held on 12th December 2019 in SLTC. Over 80 students attended this workshop. Finally, GISLA is a digital art and video documentary competition based on the theme of “Sri Lanka after COVID 19”. The submissions for the competitions were opened from 4th May to 1st June 2020. More than fifty people from all over the country participated in this competition, with awards given to the best submissions.



IEEE UET Taxila Student Branch [Islamabad Section]

Muhammad Saif Raza, Chair for IEEE UET Taxila Student Branch

Webinar on The Science of Well-being

United Nations World Happiest Index has placed Pakistan at 66th rank amongst the happiest countries of the world. We are a nation with many depressed individuals, blaming themselves for every bad that happens to them, and always in self-doubt and self-pity.

IEEE UET Taxila Student Branch arranged a webinar on “The Science of Well-being” on 21st May 2020 along with more than 30 participants on “How to be Happy”. It was an interactive session to address various problems and queries. The audience learned about the art of achieving satisfaction and happiness in their life. All participants were highly encouraged to be a part of the live session to make the rest of their quarantine time free of anxieties and depression.



IEEE RIT Student Branch [Kerala Section]

Martin Joe, Branch Chairperson for IEEE RIT Student Branch

Advancing Technology for Humanity



IEEE RIT Student Branch is the team of student members with high eagerness and vitality. The Student Branch under the leadership of Mrs. Anu George has sorted out numerous high caliber and technically significant exercises to serve its student members. IEEE RIT RAS Student Chapter organized Smartphone Controlled Robotics Workathon on 8th and 9th February 2020 with 50

participants. The event was led by Er. Anish M S, YP from IEEE Kerala Section and aimed at teaching Robotics. As part of the International Women's Day celebrations, IEEE RIT WIE AG organized an outreach program on 8th March 2020 for creating a media marketing awareness among the women entrepreneurs of micro-enterprises. 24-Hour Online Hackathon, organized by IEEE RIT IAS Student Chapter on 18th March 2020 with 40 participants, emphasized on innovative ideas and solutions. IEEE RIT Computer Society Student Chapter organized 'Code Colosseum' coding competition for students to develop their coding skills. Little Scientist Challenge, organized by IEEE RIT PES Student Chapter, created a platform for children to exhibit their scientific experiments.

IEEE MBCC Student Branch [Kerala Section]

Biju K, Vice-Chair for IEEE IA/IE/PELS Kerala Jt. Chapter

IEEE IAS Student Chapter Inauguration of Mar Basaleous Christian College of Engineering & Technology Peermade

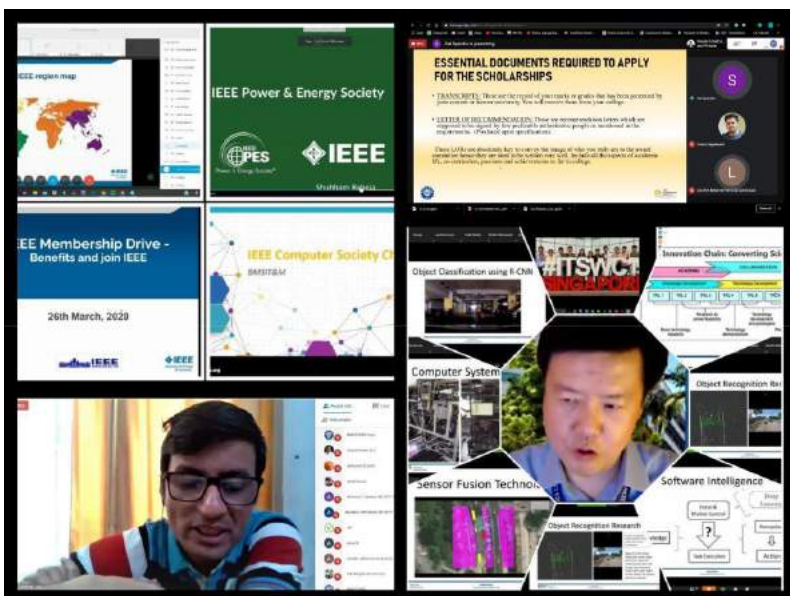
IEEE Mar Basaleous Christian College of Engineering & Technology Peermade IAS Student Chapter was inaugurated on 9th March 2020 by Er. A. Shajahan, Managing Director for Kerala Automobiles Limited. The event was conducted jointly with IEEE IA/IE/PELS Kerala Jt. Chapter. Dr. C. Pradeep, Principal MBCCET Peermade presided over the function. Prof. K. Biju, Vice-Chair for IA/IE/PELS Jt. Chapter offered felicitations. There were two technical sessions held after the inauguration. The first talk was on “sustainable development of e-vehicle” by Er. Shajahan while the second talk was on “fundamentals of power electronics” by Prof. K. Biju. Students found both the sessions very useful and informative. 53 IEEE student members and 70 non-IEEE members attended the program.



IEEE BMSIT&M Student Branch [Bangalore Section]

Pranav Raikote, Chair for IEEE BMSIT&M Student Branch

Glimpses of IEEE BMSIT&M Student Branch



IEEE BMSIT&M Student Branch creates occasions to assist students for improving their skills, and online webinars in specialized domain were found to be very effective to achieve the improvement. IEEE Membership Drive Webinar was held by the Executive Committee on 26th March 2020, attended by 52 participants. Another webinar on AI Robotics was delivered by Prof. William Lee on 10th April 2020, attended by 68 members. Git for Beginners online class was organized on 14th April 2020 delivered by Mr. Anand Jagadeesh, which witnessed 80

members participating. Mr. Sandeep Jain, founder of GeeksforGeeks directed a session on the best way to pack your "Dream Software Job" on 26th April 2020, attended by more than 80 members. A webinar on AI Application in Electric Power Industry was given by Mr. Shishir Shekhar which was followed by 44 members on 28th April 2020. Finally, scholarships offered by IEEE CS was conveyed by Sai Sparsha, Webmaster, who is chipping in as Scholarship Outreach Ambassador for IEEE CS, on 12th May 2020, attended by 25 members.

IEEE CCOEW Student Branch [Nagpur Section]

Jaya Gadge, Counselor for IEEE CCOEW Student Branch

Tech Talk on Technology Innovation and Inspirational Leadership

On the occasion of its 10th year celebration of Cummins College of Engineering for Women (CCOEW), Nagpur, IEEE CCOEW Student Branch under the Nagpur Subsection organized a tech-talk on 'Technology Innovation and Inspirational Leadership' on 7th February 2020. The talk was delivered by Dr. A. Sivathanu Pillai, former Program Director Integrated Guided Missile Development Program (IGMDP) and Founder CEO and MD of Brahmos Aerospace Ltd. Dr. Pillai is a recipient of the most prestigious awards i.e. Padma Shree and Padma Bhushan. The occasion was graced by various members of IEEE. Dr. Pillai explained about the innovations and development in space technology defense systems over the years. In his enthralling presentation he made audience aware about how India has led in various projects and become the first to demonstrate technology in the world. The event was a great success due to support of Bhartbhushan Joshi, Principal of CCoEW. The program was coordinated by Prof. Jaya Gadge and IEEE student members, and a total of 250 students participated.



IEEE BVM Student Branch [Gujarat Section]

Himanshu Thacker, Public Relations Officer for IEEE BVM Student Branch

International Tech Conclave - ITC'2020

IEEE BVM Student Branch organized its online flagship event International Tech Conclave (ITC'2020) from 26th to 30th April 2020. For this mega-event, a total of 6 international speakers were invited, covering various domains of engineering. With the focus on “Driving People from Darkness to Light”, more than 2000 delegates registered for this event from all over the world, with a total of more than 21,000 views on YouTube.

The speakers and their topics were:

1. Ms. Jyotika Athavale, Principal Engineer, INTEL Corporation on Technology Trends and Challenges.
2. Mr. Roger Hunter, Program Manager, NASA on Small Spacecraft Technologies and Kepler Mission.
3. Mr. Venkat Raju, University of California, Berkeley on Data Analytics Trends and The Future.
4. Dr. Eroshenko S. Andreevich, Senior Lecturer, URFU on ML for Solar Energy Forecasting.
5. Dr. Archana Sharma, Principal Scientist, CERN on Futuristic Radiation Based Space Technology.
6. Mr. Farid Khan, Chair, South Asia IEEE Smart Village USA on The Smart Cities of Tomorrow.



IEEE UCET IUB Student Branch [Lahore Section]

Iram Haider, Chairperson for IEEE UCET IUB EMBS Chapter

Development of Automated Hospital Assistance System to deal Isolated Patients of COVID-19

Undergraduate student members of IEEE UCET IUB EMBS Student Chapter, under the lead of chairperson Iram Haider, developed a system to deal with the medical emergency of COVID-19 that is affecting the whole world. This system is capable to hold the patient's medical history to provide to the doctor, and allows communication and emergency alarm calls setup with IOT-based system for the interaction of LCDS. Also, it includes a robotic cart that can provide food and medicine to the base center conveyer on the call of doctor. It will help medical and paramedical staff to deal with hundreds of patients in less severe conditions, at the same time maintaining maximum social distance. Also, it will make the automatically assisted system capable of providing efficient and reliable services to the patients. The members consulted with the staff of local quarantine centers to tailor it according to their need.





AWARDS AND FUNDING



10. AWARDS AND FUNDING

2020 MGA Outstanding Large Section Award Winner



Congratulations to Kerala Section!

2020 Women in Engineering (WIE) Awards Winners

Congratulations to the following R10 Units and Members for the 2020 WIE awards!



2020 WIE Award Recipients

WIE Student Branch Affinity Group of the Year Award:

Winner: WIE Universidade Federal de Campina Grande UFCG SBAG (R9)

Honorable Mention: WIE Unidad Profesional Interdisciplinaria en Ingeniería y Tecnologías Avanzadas UPIITA SBAG (R9)

Honorable Mention: WIE Universidad Don Bosco SBAG (R9)

WIE Affinity Group of the Year Award:

Winner: WIE Ottawa AG (R7)

Honorable Mention: WIE Argentina AG (R9)



Honorable Mention: WIE Malaysia AG (R10)

WIE Inspiring Member of the Year Award:



Winner: Lee Yoot Khuan (R10)



Honorable Mention: Divya M G (R10)

Honorable Mention: Simay Akar (R8)

Inspiring Student Member of the Year Award:



Winner: Indhumathi Gunasekaran (R10)

Honorable Mention: Ana Hellen Carvalho dos Santos (R9)

Honorable Mention: Rossana Gauto Moran (R9)

IEEE R10 EAC PROJECT REACHING LOCALS

Chun Che Lance Fung, Chair for IEEE R10 Educational Activities Committee

IEEE R10 OU's are invited to join PROJECT REACHING LOCALS to conduct activities or participate in the production of resources to reach out to the community using local languages. The goal of the project is to fulfil the IEEE 2020-2025 Strategic Plan – "Enhance public understanding of engineering and technology", and, "Be a trusted source of educational services and resources to support Life-Long Learning".



Objectives of PROJECT REACHING LOCALS:

- To raise the awareness of IEEE's brand and logo.
- To enhance public understanding of engineering and technology.
- To provide a trusted source of educational resources and services.
- To inspire a worldwide audience and expand knowledge for the benefit of humanity.

Supports from IEEE R10 will be provided in one the following options:

1. To conduct activities reaching out to non-English speaking communities with local languages. Reports will be required by 30th October 2020. Level of participation will be based on number of events, number of participants, targeted groups (such as students, professionals, affinity groups, life members...etc) and other merits. All participating OU's will be awarded with a Certificate of Appreciation and the top 16 OU's will receive funding support of \$300 each.

2. To develop translations of IEEE resources such as subtitles for videos or webinars on technical subjects in IEEE Fields of Interest, or, translation of existing materials from other IEEE OUs such as IEEE REACH and EAB. The amount of support will be up to a maximum of \$1,000 each, on condition that matching support or sponsorship from other IEEE OU or non- IEEE organisations (such as university or industry) is secured. The amount could be used for professional services and to be claimed as reimbursements in accordance with IEEE policy on expenses. Scope and plan of the proposal must be discussed with Chair of R10 EAC and other OU (if their materials are to be used) prior to confirmation and commencement of the project. It is expected outcomes from this initiative will lead to long lasting impact, and subsequent applications for larger grants from other sources such as IEEE NIC and IEEE Foundation. Reports will be required by 30th October 2020. Up to Five projects will be supported in this initiative.

Examples of activities are (and not limited to):

- 1) Conduct online webinars, seminars in local languages. An example is the IEEE Engineer Spotlight – Japan webinar series conducted in Japanese https://www.ieee-jp.org/japancouncil/affinitygroup/R10_Spotlight/
- 2) Provide subtitles or transcripts of recordings on technical subjects in other languages. An example is the ICRA2019 keynote with Japanese/Chinese subtitles <https://www.youtube.com/watch?v=yMoQV1-pFAk>
- 3) Provide translation for existing IEEE Resources such IEEE REACH, TryEngineering or IEEE TV.
- 4) Partner with local industry and/or community groups to conduct activities in local languages that meet objectives of this challenge.

Timelines: Project call opens – 22nd June 2020 Reporting deadline – 30th October 2020

Reporting Requirements:

The following information are required for reporting purposes:

- 1) Name and details of OU that conducted the online activities and/or production of resources in local languages.
- 2) Descriptions and list of completed online activities and/or the resources used.
- 3) Metrics adopted, such as the number of participants in the event or usage of the IEEE resources.
- 4) Discussion on the scalability and sustainability of the initiative. (This may lead to further projects to be supported by other IEEE funding sources.)
- 5) Recommendations and Feedbacks from participants.

Enquiry and Submission of Expression of Interest (EOI) to Chun Che Lance Fung, Chair IEEE R10

EAC: Lanceccfung@ieee.org

Call for Nominations - IEEE Technical Field Awards



CALL FOR NOMINATIONS
IEEE Technical Field Awards

Nominations are now being accepted for the 2022 IEEE Technical Field Awards! Each year, the IEEE Awards Program honors distinguished engineers, scientists, technologists, and practitioners who have contributed to the IEEE's technical fields of interest. These are amongst the highest-ranked awards in the IEEE portfolio. If you have a colleague that is eligible, we invite you to start a nomination today!

[Submit a nomination TODAY!](#)

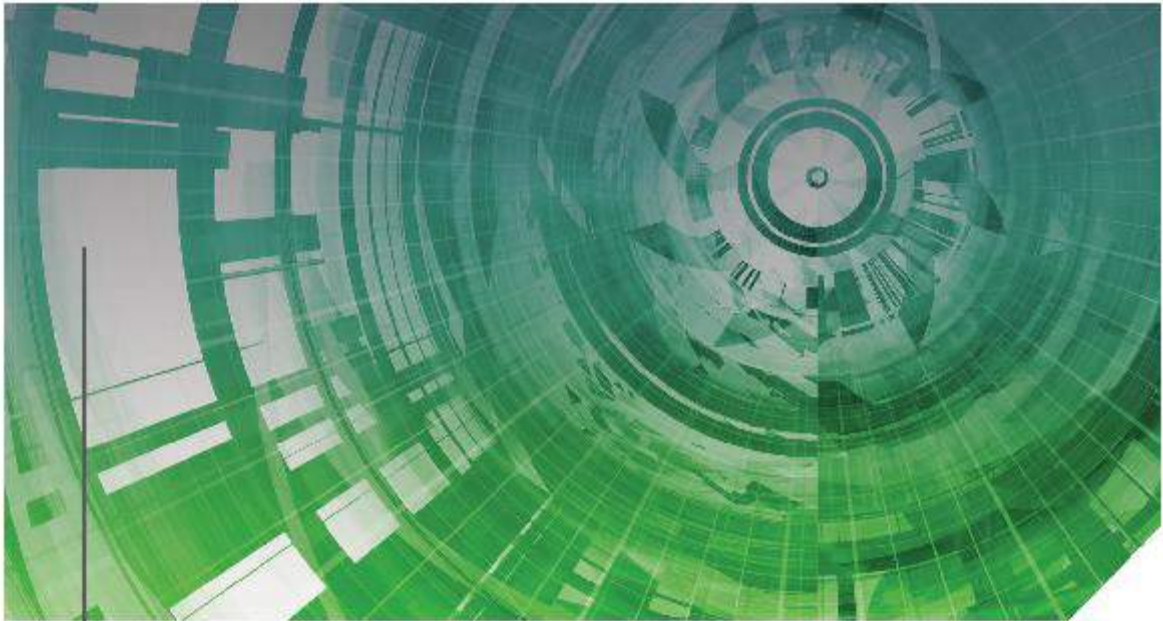


IEEE Awards Collabratec

Visit the IEEE Corporate Awards Program Community page on IEEE Collabratec to learn more about our program. Contest coming soon!

[IEEE COLLABRATEC](#)

Call For Proposals Individual Benefits & Services (IBS)



IEEE Region 10 MDC

Individual Benefits & Services for promoting the member benefit & Services

Project aims for highlighting IEEE membership's benefits and encourage Section to arrange local benefits for their members.

Plan – Approach all Sections and Councils to allocate some budget and plan activities for promoting individual benefit & services (IBS)

Budget breakdown: Best five proposals will be awarded USD 700.00, 500.00, 350.00, 250.00, and 200.00

Performance Indicator: Increased awareness of IEEE membership benefits and number of new tangible local benefits

Project Milestones leading to completion:

- Submission Date: July 30, 2020
- Notification of Decision: August 30, 2020
- Submission of Final Detail Report: September 30, 2020
- Funds for approved proposal released: October 30, 2020

**For more details:
Parkash Lohana
Chair R10 MD Committee
Email: parkash@ieee.org**

www.ieee.org



Call For Proposals IEEE HAC Events



Humanitarian Activities Committee

IEEE HAC Events – 2020 Call for Proposals

HAC Events funding enables IEEE members and organizational units (OUs) to accomplish one or more of the following strategic priorities through conferences and events around the world:

- Raise awareness of humanitarian technology and sustainable development and how technically trained people can contribute;
- Provide training to increase the capacity of IEEE members and OUs to successfully undertake humanitarian technology and sustainable development activities;
- Showcase the results and share lessons learned of IEEE humanitarian technology and sustainable development projects;
- Develop relationships with the greater sustainable development community outside IEEE.



Events

DEADLINES

- **Invitation only:** 27 January 2020
- **Open submission #1:** 20 April 2020
- **Open submission #2:** 01 September 2020
- **Small scale:** Rolling until 01 September 2020

CALL FOR PROPOSALS

HAC Events 2020 Call for Proposals

HOW TO APPLY

Please submit via the [IEEE HAC Online Funding Opportunities Portal](#).



CONFERENCE CALL FOR PAPERS



CONFERENCE CALL FOR PAPERS



The 2020 IEEE Region 10 Conference (TENCON) will be held at the Osaka International Convention Center, Osaka, Japan on 16-19 November, 2020. TENCON is a premier international technical conference of IEEE Region 10, which comprises 58 sections, 6 councils, 34 subsections in the Asia Pacific region. The theme for TENCON2020 is "Advancing Technologies for Sustainable Development Goals to Transform Our World".

TENCON2020 is expected to bring together researchers, educators, students, practitioners, technocrats, and policymakers from across academia, government, industry and nongovernmental organizations to discuss, share and promote current works and recent accomplishments across all aspects of electrical, electronic and computer engineering, as well as information technology. Distinguished people will be invited to deliver keynote speeches and invited talks on trends and significant advances in the emerging technologies.

The scope of the conference include, but not limited to, the following:

- Aerospace Technology
- Biomedical Engineering
- Machine Learning, Cloud and Data Analytics
- Devices, Materials & Processing
- Engineering Management
- Marine and Offshore Engineering
- Photonics
- Robotics, Control Systems & Theory
- Software & Database Systems
- Wireless Communications & Networks
- Antenna & Microwave
- Circuits and Systems
- Computer Architecture & Systems
- Disasters and Humanitarian Technology
- Engineering Education
- Multimedia Engineering
- Power & Energy
- Signal and Image Processing
- Social Implications of Technology

TENCON2020 will feature both invited and contributed papers. The best papers will be selected from the contributed papers for awards. The presented papers will be submitted to IEEE Xplore which is indexed by major databases. Prospective authors are invited to submit full papers that are maximum six pages, with double column IEEE conference format.

IMPORTANT DATES:

Full Paper Submission: ~~1st June 2020~~ ~~1st July 2020~~ 15th July 2020

Notification of Paper Acceptance: ~~15th August 2020~~ 15th September 2020

Early Bird Registration Deadline: ~~15th September 2020~~ 30th September 2020

Camera Ready Submissions: 30th September 2020

ONLINE PRESENTATION

DIGITAL ECOSYSTEM FOR HUMANITY

IEEE R10 HUMANITARIAN TECHNOLOGY CONFERENCE 2020

1st Dec - 3rd Dec 2020 | Kuching Sarawak

www.r10htc2020.org



ORGANIZING COMMITTEES

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General Co-Chair

Mohammad Faizal Ahmad Fauzi (MMU)

Technical Program Chair & Co-Chairs

David Bong (UNIMAS),
Su Hieng Tiong (SUTS),
Lee Yoot Khuan (UITM)

Workshop/Special Sessions/Competition Chair & Co-Chair

Mark Tee Kit Tsun (SUTS),
Alpha Agape Gopalai (Monash)

Publication Chair & Co-Chair

Riady Siswoyo (SUTS),
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Chong Yu Zheng (UTAR)

CONFERENCE FEE

Membership Type	Participant	Student
IEEE Member	USD 200	USD 150
Non-IEEE Member	USD 250	USD 175
IEEE Life Member	USD 150	

ABOUT THE CONFERENCE

IEEE Region 10 Humanitarian Technology Conference (R10 HTC) is the premier annual cross disciplinary conference that provides a common platform for engineers, technologists, scientists, investors, representatives from NGOs, governments, academia and the industry to discuss recent advances in Humanitarian Technologies. The conference promotes discussions and presentations from the fields of Electrical & Electronic Engineering, Artificial Intelligence, Computing & IT, Security, Disaster Management, Smart Cities & Villages, Industrial Revolution 4.0, Digital Commerce, Education, Healthcare and relevant areas of research.

IEEE R10 HTC 2020 will be held in Borneo Island, Kuching City in Malaysia from 1st to 3rd December, 2020. The conference is hosted by IEEE Sarawak Subsection with the theme "Digital Ecosystem for Humanity". We invite you to submit your original papers and join us in Kuching, a city on the island of Borneo.

IEEE R10 HTC 2020 topics include, but are not limited to the following:

- Electrical & Electronic Engineering
- Power & Energy
- Artificial Intelligence
- Smart City / Smart Village
- Computing and Information Technology
- Industrial Revolution 4.0 (IR 4.0)
- Digital Commerce, Blockchain Technologies & FinTech
- Education
- Healthcare & Biomedical Engineering
- Disaster Management
- Food Science & Agriculture

KEYNOTE & SPECIAL SESSION SPEAKERS



Associate Prof. Dr. Sye Loong Keoh
Programme Director (Computing Science)
University of Glasgow, Singapore



Dr. Surapa Thiemjarus
Senior Researcher
A-MED, NSTDA, Thailand



Dr Jiong Jin
Senior Lecturer
Swinburne University of Tech. Australia



Professor Emeritus Lance Chun Che Fung
Emeritus Professor
Murdoch University, Australia
EA Committee Chair, IEEE Region 10



Professor Akinori Nishihara
Professor Emeritus
Tokyo Institute of Technology, Japan
Director, IEEE Region 10



Associate Prof. Supavadee Aramvith
Associate Professor
Chulalongkorn University, Thailand

SPECIAL SESSIONS AND WORKSHOPS

Proposals for special sessions and workshops can be suggested to the Workshop & Special Session Chair by **January 1, 2020**.

PUBLICATIONS

All full papers will be published in IEEE R10 HTC 2020 Conference Proceedings, which are expected to be included in **IEEE Xplore** and indexed by **Scopus**. All submissions will be peer-reviewed by experts in the respective fields.

Submission opens on 1st December, 2019.

IMPORTANT DATES

Special Session & Workshop Proposal
Jan 1, 2020

Full Paper Submission
Jul 31, 2020 (extended)

Notification of Acceptance
Jul 31, 2020

Final Camera-ready Paper Submission
Aug 31, 2020

Author's Registration
September 30, 2020



For more info or inquiry, please send us an email at secretariat@r10htc2020.org.

Welcome to Auckland, New Zealand Host city of TENCON 2021



Choose to have it all
in Auckland, New Zealand in 2021.




HOST CITY
Auckland, New Zealand


PROPOSED DATES
7-10 December 2021


PROPOSED VENUE
TBC

IEEE TENSYP 2021

Connected Intelligence for Smart IT, Jeju, Korea

April 21 (Mon) – 23 (Wed), 2021



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Contact r10-ecn@ieee.org / ewell.tan@ieee.org if you are interested.



IEEE R10 TODAY



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