IEEE R10 TODAY

IEEE REGION 10 NEWSLETTER

IEEE

[This page intentionally left blank]

CONTENTS

WELCOMING MESSAGES

Message from IEEE Region 10 Director

Dear All IEEE Region 10 Members,

We have reached the 4th quarter of 2020. Even though the global COVID-19 pandemic is still with us, I hope each of you and your families remain safe and healthy! Our IEEE activities have been very much affected by the pandemic, and everything went virtual from March, comprising the Region 10 Annual Meeting, TENSYMP 2020, and our recent R10 SYWL Congress 2020.

The SYWL Congress is far better done face-to-face, but we had no way to host the meeting other than online. Under the excellent leadership of General Chair Zia Ahmed and General Co-Chair Supavadee Aramvith, our individual Chairs of Region 10 Committees of "Students, Young Professionals, Women in Engineering, and Life Members," all worked extremely hard to prepare, organize, and hold the Congress under newfound conditions.

The Opening Ceremony on Saturday, 19th September was attended by 266 persons on WebEx with an additional 8,300 viewers joining on Facebook Live Stream. So, we can be proud that SYWL was an outstanding success in terms of the number of its attendees. In the physical meetings, we cannot have so many people due to limited space as well as travel costs. Many, however, must be frustrated because networking opportunities, one of the main benefits of the Congress, were by necessity limited.

We will hold two more flagship conferences: TENCON 2020 and R10 HTC 2020 in this 4th quarter, once more online. Our early 2021 events may also have to be virtual. All of us are getting used to online meetings, but we still have to devise new ways of conducting events where the warmth of a human touch is more an integral part of the event.

In my most recent message three months ago, I mentioned our outreach programs making use of local languages. This is now officially referred to as "Region 10 Project Reaching Locals," and it is headed by Lance Fung, Region 10 Educational Activities Committee Chair. Webinars, workshops, meetings, and so forth are already conducted in local languages in many areas of Region 10. Especially for pre-university students, the local tongue is more convenient and offers greater learning efficiency. We can provide many different sorts of IEEE-related content, and by doing so can imprint the IEEE brand subliminally, so that younger student attendees become interested in joining IEEE after reaching the appropriate age.

The year 2020 the world has been gobsmacked by COVID-19, but the year with its sadness and many inconveniences will come to an end in just three months' time. I really hope next year will mark a net improvement. Probably we'll have to live with COVID-19, just as we do with many other viruses, not by a total eradication, but by exploiting extant and new technologies.

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 October issue of IEEE Region 10 Newsletter, which is already our fourth and final edition for 2020. We are glad to receive continuous support from the various organizational units across Region 10 for our newsletter, with a lot of submissions received for each and every one of our newsletter issue. And this issue is no different; despite still being clouded with the COVID19 pandemic, which no doubt affecting most units in carrying out their activities, we received close to 50 article submissions for inclusion in this newsletter edition. We would like to again thank all these volunteers for their contributions to this newsletter.

This edition features a special report on the winners of the recently announced IEEE Region 10 Awards. Both the individual and OU/group awards winners are featured in the report, two of which also features in our *Personality and Organizational Unit of the Month* column. Congratulations again to all the winners for their well deserving awards. The newsletter continues with another four *Personalities of the Month* and four *Organizational Units of the Month* in this edition. This issue also continues to feature another one of our COVID-19 heroes in the *COVID-19 Personality of the Month* column, introduced for the first time in the July issue following the advice from Region 10 Director, Akinori Nishihara, to highlight our members and units who contributed in countering the COVID-19 threat. This time, the honor goes to the IEEE Indonesia Section for their effort in distributing Automatic Handwash Portable Machine in Makassar, South Sulawesi.

Besides, this October newsletter issue also bring a new technical column featuring articles by the winners of the 2020 IEEE Region 10 Postgraduate Research Paper Contest, updates from various IEEE Region 10 committees, reports on events organized by Region 10 (Conference Leadership Program, R10 Director's Dialogue etc.), as well as other major events across the region (GUCON2020, ICC2020, VCOP2020 etc.). As usual, I would like to offer my very special thanks to all my R10 newsletter committee members below for their incredible team efforts, without which the October newsletter issue will never materialized. 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
M Naila Mukhtar	Webmaster/Social Media
Nabeel Ahmed Masoodi	Graphic Designer

SPECIAL

REPORTS

1. 2020 IEEE REGION 10 AWARDS RECIPIENTS

Prepared by: Mohammad Faizal Ahmad Fauzi, Chair for IEEE R10 Newsletter Committee

IEEE Region 10 continues to nurture and develop strong awards and recognitions program to promote outstanding volunteer services and contributions. Please join us in congratulating all the award recipients for the recently announced 2020 IEEE Region 10 Awards.

INDIVIDUAL AWARDS

R10 Outstanding Volunteers Award

Sameer S. M. - in recognition of outstanding contribution and services to the IEEE Kerala Section and IEEE Region 10

S. M. Sameer received B.Tech degree in Electronics & Communication Engineering from University of Kerala in 1994, M.Tech in Telecommunication Systems and Ph.D. in Wireless Communications in 2003 and 2009 respectively from Indian Institute of Technology, Kharagpur, India. After various tenures in industries, he joined as a lecturer in the Department of Electronics & Communication Engineering at the National Institute of Technology Calicut, Kerala, India in 1998, where he is presently working as a Professor. He has published over 50 journal papers including papers in reputed IEEE Transactions, 60 conference papers and also holds two US patents. Sameer S. M. is a Senior Member of the IEEE and a regular reviewer for many reputed international conferences and journals. He was the General Co-Chair of TENCON 2019, the flagship conference of IEEE Region 10. He is the immediate past Chairman of IEEE Kerala Section.

Debabrata Das - in recognition of outstanding contribution and services to IEEE Bangalore Section and IEEE Region 10

Debabrata Das is serving as Professor at the International Institute of Information Technology Bangalore. He was Principal Investigator of multiple sponsored projects from Intel, Hewlett Packard, Microsoft, Motorola Research, Tejas Networks, Cognizant, Nokia and Government of India in areas of Wireless Networks. He has more than 160 peer reviewed papers in journals and conferences. He has received four best paper awards. Dr. Das is recipient of IEEE Region 10 Outstanding Volunteer Award 2020, IEEE MGA Achievement Award 2012 and Outstanding Volunteer Award of Bangalore Section in 2008. He was the Chairman of IEEE Bangalore Section in 2017. He has been an active IEEE volunteer for more than 15 years.

Atul Negi - in recognition of outstanding contribution and services to IEEE Hyderabad Section and IEEE Region 10

Atul Negi is a Professor at the School of Computer and Information Sciences, University of Hyderabad, India. He holds Ph.D. and M.Sc (Engg.) degrees from University of Hyderabad and IISc, Bangalore, respectively, and is B.E. ECE (distinction) from Osmania University, Hyderabad, India in 1986. He has been an active volunteer for IEEE Hyderabad Section since 1999 and served as the Chairman for IEEE Hyderabad Section from 2012 to 2013. He served as the Vice Chair Educational Activities of IEEE India Council during 2017-2018. He served in committees for TENSYMP 2015 & 2017 and TENCON 2008 & 2019. He also served India Council in organizing IEEE Indicon 2011 & 2019. Presently, he is a mentor for start-up companies in business incubators at the University of Hyderabad. His technical contributions on Telugu OCR, PCA, IoT and other topics are well cited.

R10 Educational Activities Outstanding Volunteer Award

Mohd Hafiz Ismail - in recognition of outstanding contribution and services for educational activities to the IEEE Malaysia Section

Mohd Hafiz Ismail is an academic staff at the Faculty of Electronic Engineering Technology, Universiti Malaysia Perlis. He was the Executive Committee (Educational Activities) of IEEE EMBS Malaysia Chapter (2018-2019) and Co-Founder/ Vice Chair of IEEE Malaysia Sensors and Nanotechnology Joint Councils Chapter (2017-2019). He was also the recipient of IEEE Malaysia Section Outstanding Volunteer Award 2019 and part of the IEEE Malaysia Section Educational Activities committee which has been awarded the IEEE R10 Outstanding Educational Activities Group Award 2019. Hafiz is currently the Educational Activities Chair of IEEE Malaysia Section and has just been appointed as IEEE Day 2020 Regional Lead for Region 10. Since 2018, Hafiz has been involved as advisor, coordinator, instructor and speaker for 15 national and state levels university and pre-university programs, in collaboration with Ministry of Education Malaysia, Ministry of Higher Education Malaysia, National STEM Centre Malaysia, various State Education Departments, IEEE Organizational Units and private educational companies. STEM initiatives by IEEE Malaysia Section led by Hafiz has been awarded the STEM Mentor-Mentee Merit Award during Malaysia Technology Expo.

R10 HTA Outstanding Volunteer Award

Bijoy Antony Jose - in recognition of outstanding contribution and services for humanitarian technology activities to the IEEE Kerala Section

Bijoy Antony Jose is an Assistant Professor at the Department of Electronics in Cochin University of Science and Technology and a Senior Member of IEEE. He received his B.Tech. from School of Engineering (2004), M.S. from the State University of New York (2006) and Ph.D. from Virginia Tech (2011). He worked at Intel Corporation California for 3 years and as a software architect at Intel Bangalore for one year. He received the Early Career Research Award from DST Gov. of India in 2016. He received a grant of $35000 from IEEE HAC for uplifting technology facilities at a flood-affected school in 2019. He is the principal investigator to multiple funded projects, technology consultant to several companies and is currently serving as the Secretary of IEEE Kochi Subsection.

R10 SAC Outstanding Volunteer Award

Shrikant Tangade - in recognition of outstanding contributions and services for SAC programs and to the IEEE Bangalore Section

Shrikant Tangade is a Senior Member of IEEE and currently the MDC Chair & SAC Mentor for IEEE Bangalore Section (2020), SAC Ambassador for IEEE Asia-Pacific R10 (2020) and Secretary for IEEE Standard 1920.2 Working Group. He has also volunteered as IEEE Bangalore Section SAC Chair in 2019, IEEE SAC Co-Chair in 2018 and IEEE REVA University Student Branch Counselor from 2016 to 2019. He is working as an Assistant Professor with the School of Electronics & Communication Engineering, REVA University, Bengaluru, India since 2011. He is also a recipient of the "IEEE Outstanding Volunteer Award 2019" by IEEE Bangalore Section, "IEEE Outstanding Branch Counselor Award 2017 & 2016" by IEEE MGA Global and IEEE Bangalore Section, respectively.

R10 WIE Outstanding Professional Volunteer Award

Divya M G - **in recognition of outstanding contributions and services to WIE program and to the IEEE Bangalore Section**

Divya M G served as the Chair for IEEE WIE Affinity Group at Bangalore Section (2019). She is currently the Vice-Chair of the Bangalore Section (2020) and a Senior Member of IEEE. She is currently working as Joint Director, SDOS Group, Centre for Development of Advanced Computing (C-DAC), Bangalore. Her education background is B.E, M.S, and MBA. She has over 25 years of industry experience. She was the recipient of "IEEE Bangalore Section Best Volunteer 2019" award. She strongly believes that this recognition is for the entire team of "WIE AG Executive Committee 2019". One of their new initiatives is "Ottige Kaliyona" – a starring event for community outreach program. This program aims to empower students of government & municipal schools with many life and technical skills. The IEEE WIE Bangalore Section has successfully conducted a series of such programs across the Section.

Divya M G features in this issue's WIE Personality of the Month column on page 19.

R10 WIE Outstanding Student Volunteer Award

Sai Divya Nallapaneni - **in recognition of outstanding contributions and services to WIE program and to the IEEE Hyderabad Section**

Sai Divya Nallapaneni is a final year student with majors in Electronics and Communication Engineering and minors in Computer Science at G. Pulla Reddy Engineering College, Kurnool, Andhra Pradesh, India. She currently serves as an R10 Regional Student Ambassador of the IEEE Computer Society, Zonal Student Representative of the IEEE Ananthapur Subsection, Chairperson of the IEEE Computer Society GPREC SB Chapter, and an active volunteer at IEEE GPREC WIE AG. She made significant contributions to women in the computing field and volunteered for many events. She is also a recipient of the Grace Hopper Celebration India Scholarship and IEEE CS Richard E. Merwin Scholarship.

R10 Life Member Outstanding Volunteer Award

A. G. Hareendralal - **in recognition of outstanding contributions and services to Life Member program and to the IEEE Kerala Section**

Hareendralal (M'82, SM'90, LSM'16) was the Kerala Section Chair in 1992. From 2000 to 2008, he was the Secretary of the UAE Section of Region 8, and it became one of the leading and the fastest growing Sections in the Region. He was the PES UAE Chapter Chair from 2000 to 2005. He was the PES Kerala Chapter Chair during 2016 to 2017, winning the Outstanding Small Chapter Award. From 2016 to 2019, he was the Chair of LMAG Kerala Section, winning the Outstanding LMAG Award. Currently, as the Chair of the Intersociety Activities Committee, he leads 7 other professional bodies and organizing Weekly Webinars every Wednesday from 15 April onwards. He is the Director of Anantha Gangah Institute of Engineers, a Finishing School for Electrical Engineers.

R10 YP Outstanding Volunteer in Academic Award

Nandan S. - **in recognition of outstanding contributions and services to YP academic program and to the IEEE Kerala Section**

Nandan S. is working as Assistant Professor in the Department of Electronics and Communication Engineering of LBS Institute of Technology for Women, Trivandrum, Kerala, which is a Government of Kerala undertaking institution under APJ Abdul Kalam Technological University, Kerala, India. His research areas of interest include Wireless Communication, 3G-4G Mobile communications, Cognitive radio and MIMO OFDM Systems for Communication. Mr. Nandan S. is an active volunteer of IEEE, he is currently the Chair of Student Activities Committee of IEEE Kerala Section. He has also held the responsibility of Secretary – Educational Activities of Kerala Section in the year 2017 and 2018. He was the Vice-Student Activities Chair of Kerala Section in 2018 and the recipient of "Outstanding Volunteer Award of IEEE Kerala Section 2017". He was part of the organizing committee for IEEE TENSYMP 2017, Women In Engineering Summit 2019, IEEE TENCON 2019 and several other international conferences.

R10 YP Outstanding Volunteer in Industry Award

John Benedict B - **in recognition outstanding contributions and services to YP industry program and to the IEEE Hyderabad Section**

John Benedict B studied Electronics and Communications for his Bachelor's Degree and currently works for Amazon as its Team Manager for Digital Platforms and Devices. He also freelances for startups providing expertise in AWS Cloud Management and Data Analytics. He has been a part of humanitarian projects in his state in collaboration with the state government. He has been a volunteer with IEEE since 2011 and has served in his Student Branch and most recently in the MGA. He has taken up roles and responsibilities where ever possible. He is a part of the team in the PES Membership Development Team which saw yearly membership improvement. He also serves on the IEEEXtreme team which has seen increasing participation numbers every year. He currently serves on the MGA Potentials Board as its associate editor.

Outstanding Large Section

Bangalore Section - **in recognition and appreciation of valuable services and contributions**

IEEE Bangalore Section has organized more than 1000 technical events with the help of Society Chapters and Student Branches. In the year 2019, Bangalore Section organized 2 international events namely WiE Leadership Summit and WiE-ECE Con. To engage with Younger Industry professionals, a new Industry award namely IEEE Bangalore-Young Technologist of the Year award was introduced. Student Technology Day and Section Students-Young Professional-WiE-LM Congress was organized to keep members engaged. As part of individual member benefit, Senior Member Elevation Program (SIMPLE) was organized. For potential Fellow members, Fellow Identification and Nomination Exercise (FINE) were also organized.

*IEEE Bangalore Section features in this issue's Large Section of the Month column on page 25.

Outstanding Medium Section

Gujarat Section - **in recognition and appreciation of valuable services and contributions**

The IEEE Gujarat Section has always been a pioneer in organizing programs for professionals and students. Its annual event 'Sampark' gives a platform to student members to design IEEE events of the year as per their own needs and requirements. The Section has shown its strengths by hosting annual flagship events like INDICON and TENSYMP in the past five years. Other technical events such as the National Seminar on Computer Vision and Image Processing (NaSCoVIP), National Seminar on New Trends in Signal and Image Processing (NeTSIP), and Section Technical Expert Program (STEP) are routinely held to bring new and existing volunteers for knowledge sharing with experts in academia and industry.   Gujarat Section is equipped with twelve chapters, two council chapters, YP and WIE AG, and 28 Student Branches. Many chapters of the Section are very vibrant throughout the year. The SPS Chapter of the Gujarat Section won the "2015 and 2016 Chapter of the Year Award" and the Sensor Council chapter won the "2018 Chapter of the Year Award".

Outstanding Small Section

Australian Capital Territory Section - **in recognition and appreciation of valuable services and contributions**

The IEEE Australian Capital Territory (ACT) Section, established in 1988, is located in Canberra, Australia and serves IEEE members in ACT as well as the surrounding areas in NSW. It has 12 chapters and groups covering several subjects with Signal Processing and Communications members being the largest subscriber base. Despite the relatively low population density of the territory, the Section membership has been relatively stable at around 500 members which constitutes about 0.1% of the territory population. IEEE suffered worldwide a decrease in membership due to Covid-19 and ACT Section has equally suffered with membership number slumping down to low 400 in first quarter 2020. However, a slow and steady recovery is underway with September figure around 450 members.

Large Section Membership Growth and Retention Award

Hong Kong Section

Throughout the history of IEEE Hong Kong (HK) Section since 1972, it has served as the cradle of many prolific and renowned academicians, industry leaders and researchers. There are more than 9000 IEEE members in Hong Kong. Senior Section officers provide guidance and advice to establish and strengthen the bonding among 20 Chapters, 4 Affinity Groups and various Student Branches. LMAG and YPAG founded in 2020 share leadership experience and R&D expertise for succession planning among all IEEE HK Section units. The Section aims to contribute multidisciplinary model programs from Hong Kong to all regions worldwide for technology advancement and humanity!

Medium Section Membership Growth Award

Tainan Section

The IEEE Tainan Section was initiated by a preparatory committee and formally formed in 2003. Currently, it has more than 740 members in Taiwan. There are 16 Chapters in the Tainan Section and 2 Affinity Groups: YP and WIE. Tainan Section has been awarded the outstanding achievement in member retention during the 2015 membership year. IEEE Tainan Section Annual Awards consists of 8 different aspects and has been regularly given since 2003. Award receivers are selected from the nominee pools by a thorough review performed by Awards Chairs and reviewers. Every year, Tainan Section holds technical events and invites keynote speakers in various fields of expertise for our members to share mutual experiences.

Medium Section Membership Retention Award

Queensland Section

The Queensland Section was established in 1985. Today, the Section has 10 active chapters and 3 affinity groups. Over 70 committee members including the Section executive committee, chapter and affinity groups' officers, student branch volunteers and student councilors are driving the success of the Section forward. The Queensland Section is a medium section with approximately 985 members and growing. Each year, the Section encourages its members to pursue higher membership status and currently has 13 senior and 27 life members.

Small Section Membership Growth Award

Northern Australia Section

Small Section Membership Retention Award

Vietnam Section

R10 SAC Outstanding Student Branch Award

Panimalar Institute of Technology Student Branch, Madras Section - **in recognition and appreciation of valuable services and contributions**

Panimalar Institute of Technology Student Branch is dedicated in following the vision and mission of IEEE. It is established in the year 2013 with the objective to help students to recognize real-world challenges and nurture innovative ideas. The SB organizes more than 100 events every year. It has 23 Student Branch Chapters. 10 students bagged the REM Scholarship, 1 student bagged the UPE Scholarship and the IEEE WIE Inspiring Student Member Award. Student branch Counselor Mr. M. Arun has been awarded with MGA IEEE Outstanding Branch Counselor Award and Branch Chapter Advisor Award 2019. The counselor and SB have been receiving the Best Counselor award & Best SB award from Madras Section consecutively for the past 5 years.

R10 YP Outstanding Section Affinity Group Award

IEEE Bangalore Section Young Professionals Affinity Group - **in recognition and appreciation of valuable services and contributions**

IEEE Bangalore Section Young Professionals Affinity Group has been a very active volunteering group ever since its inception. With an active team, YP Bangalore strives to deliver value to its members and potential members by organizing relevant technical and non-technical events as well as webinars on professional development. Some of the notable events conducted include the STEP and TISP, as well as collaborative events such as Mentor4You, a mentorship initiative at Section level. These provide a good platform for networking amongst members by organizing regular meet-ups and industry visits to prestigious companies such as CDAC, Cisco etc. The entire YP team works in unison with its sister society chapters and the Section to organize quality events such as global congress for the benefit of IEEE members. Recently, membership count of YP Bangalore has crossed 2000 which is an excellent milestone.

R10 WIE Outstanding Section Affinity Group Award

IEEE Hyderabad Section WIE Affinity Group - **in recognition and appreciation of valuable services and contributions**

IEEE Hyderabad Section WIE Affinity Group is actively involved in organizing various events for the benefit of students and professionals. The group started the flagship events "Lalitha Memorial Lecture" in the memory of "Ayyalasomayajula Lalitha", the First Woman Engineer in India, to inspire young girls and boys to achieve their goals despite facing hurdles in life. Other events organized by the affinity group includes the self-defense programs, talks on health and hygiene, Women Conclave, All Hyderabad Computer Society WIE Congress (AHCWC), All India Student, Young Professional and Women in Engineering Congress (AISYWC) 2019, 1st All Hyderabad Section Women in Engineering Section Student Congress (AHWIESC) etc. to bring together industry and

academia. The group is collaborating with various chapters within the Section as well as involving Student Branches in conducting events, so that it benefits all members.

R10 WIE Outstanding Student Branch Affinity Group Award

Sardar Patel Institute of Technology WIE Student Branch Affinity Group, Bombay Section - **in recognition and appreciation of value services and contributions**

WIE Sardar Patel Institute of Technology (SPIT) committee is a small and energetic collection of student WIE volunteers. All the events organized by WIE SPIT are planned and executed in accordance with the theme of Women Empowerment. WIE SPIT abides to the creation of leadership roles and career development for women by organizing technical skills workshops, as well as seminars to enhance knowledge and improve skills. WIE SPIT also works as an empowering mediator to assist the development of dynamic woman entrepreneurs. To boost one's confidence, programs in the domain of health and security are conducted for all students and staff.

R10 Education Activities Outstanding Group Award

Hyderabad Section Education Society Chapter - **in recognition and appreciation of valuable services and contributions**

In line with the vison and mission of IEEE Educational Activities, the IEEE Education Society Hyderabad Chapter is being vibrant in organizing activities. In this COVID-19 pandemic situation most of the educational institutions have adopted to the remote-classroom teaching. IEEE Education Society have conducted a session to enlighten the knowledge on the usage of Online Teaching Tools for effective teaching-learning process. The webinar aimed at providing the faculty with insights into some of the technologies available. The session empowered the faculty with the essential knowledge required to use these technologies as well as to select a tool based on the requirement. The possible assessment tools were also explored. It was a very informative session with over 200 faculty academics in attendance. Besides this, the Chapter have also organized events like Teaching with Matlab in Modern Classroom, Digital Pedagogy for Synchronous and Asynchronous Learning in Higher Education, Technical Paper Writing, and many more focusing towards quality improvement in the education field. Despite the pandemic situation, the Chapter has organized more than 30 webinars through which hundreds of faculty academics were benefited.

R10

PERSONALITIES

OF THE

MONTH

2. R10 PERSONALITIES OF THE MONTH

R10 Personality of the Month – Sudeendra Thirtha Koushik

Bangalore Section

As the Chief Innovator and co-founder of PRASU, with 26 years of experience and more than 20 national & international patents in various stages, Dr. Koushik advises major companies such as Bosch, Continental, General Motors, Mercedes Benz, Volvo etc. on Innovation strategy, developing Innovation culture and scaling business relevant Innovation for business growth. He also works with Start-ups, Incubation centres and accelerators and connects Industries and Start-ups. Koushik also links academia and Industry through workshops and technical talks on Innovation. He has also developed a syllabus for academia in Innovation & Intrapreneurship. He is an international speaker, visiting faculty and a leadership coach, helping technical people transition from task-focused roles to task plus people-oriented roles. He conducts various workshops to inspire people to achieve more, better and help contribute to the society very productively.

Dr Koushik is a TEDx speaker and has spoken in multiple international forums and universities. He has been recognised with many awards and has also written for many leading magazines and newspapers. He is also cartoonist and a TV/Movie actor.

My IEEE Experience

My stint with IEEE started while I was working at Philips Global Development Center, Singapore. Since the work was on Consumer Electronics, a group of people at Philips and local university invited me to start a Consumer Electronics Chapter in Singapore. I was unsure what it meant to be involved but was sure that IEEE was a great platform to learn. So we had many activities under CE society in Singapore. It was not all work and no fun, as we celebrated some of our milestones with get-togethers, dinners, etc.

When I moved to Philips Eindhoven, there was a gap in my engagement with IEEE. After many years when I returned to Bangalore, India, funnily, again a group of people invited me to start a Consumer Electronics chapter in Bangalore. Strangely, in Bangalore, the Silicon Valley of India, there was no such chapter.

As a founding member of the CE chapter, we conducted various activities and they were well received and valued by our members. This really inspired me to contribute more. I served in many roles in CE society chapter, initially as founding member, later as Secretary and Chair of CE Society Bangalore. I also attended the CE chapter chairs meeting in Singapore where I met people from across the globe and learnt how networking can be done in IEEE meetings.

Meanwhile, I was introduced to Bangalore Section by the chair at the time, Mr. Hitesh Mehta and I took an active role in the Section activities as well. Once I started participating in the Bangalore Section, a whole new world of volunteering opportunities opened up. I was then absorbed into the Execom as Professional Activities Chair. I then took up many roles in Bangalore Section such as Chair of Student Activities, Joint Treasurer, Vice-Chair Bangalore Section, the Co-Chair of R10 Student Congress and the 50 Years Celebrations. I also served as Industrial Activities Chair of IEEE India council and Co-Chair of R10 adhoc committee on Innovation under which I organised an Innovation training for a week in Bangladesh. I was also a lead organizer and initiator for the IEI-IEEE award for Engineering excellence, a IEEE JANS level award. I then became the Chair of Bangalore section.

Having only one-year term as chair, it is difficult to be ambitious, but with my team, we could do wonderful things which fetched the MGA Large Section award for Bangalore Section. The Section had stagnated for

many years even with around 7000 members and we needed a breakthrough, which we achieved by increasing membership by about 10%. I initiated many activities to engage members and industry effectively. Some of the key initiatives were introducing a Medal of Honour, a recognition for past chairs and contributors who helped the Section in the early years, incentives for Branch Counselors, awards for industry leaders – women and men, young technologists and start-ups as well as several schemes for students like travel grants. I was conferred with MGA Leadership Award for my contributions and leadership. I also had the opportunity to meet several IEEE presidents. I had the opportunity to take IEEE president Mr. Jose Maura and Steve Welby around Bangalore in my car. I also happened to restart TEMS chapter and took over as the chair once I completed my term as Bangalore section chair.

I was nominated as a Member, Board of Governors of TEMS and then given additional roles of TEMS India chair and editor in chief of 'LEADER', a TEMS magazine. We set a strategic vision to grow TEMS in India and we are well on course in achieving that and TEMS Bangalore chapter of which I was chair, won the Bangalore Section small chapter award. My contributions in TEMS were recognised by the TEMS board and I was asked to contest for the Vice-President of Conferences role, which I did and was successfully elected. In this role, I am responsible for global conferences. I was also featured in the IEEE magazine, 'The Institute' as a cartoonist and my book on Innovation was reviewed in IEEE Explore by CE Society President Stefan Mozar. During my journey in IEEE, I have had many roles at Society chapter level, Section level, India level, R10 level and at global society level, which I have thoroughly enjoyed. I look forward to contributing more to IEEE.

My main learning's being a part of IEEE are:
- *You will meet a lot of accomplished people from across the world, from whom you can learn, as equals,*
- *You will develop leadership & people skills as you manage events and initiatives,*
- *Managing teams in IEEE is different than in companies. IEEE is volunteer-based where more than obligation & control, motivation and relationships works,*
- *When contribution and true collaboration takes focus, difficulty disappears,*
- *Volunteering is not a favour, but a karma or in other words a duty, to give back to the community.*

R10 WIE Personality of the Month – Divya M.G.

Bangalore Section

Divya MG is an IEEE Senior Member belonging to IEEE Bangalore Section, India. Currently, she is the Vice-Chair & WIE Advisor of Bangalore Section. She was the Chair for Bangalore Section Women in Engineering Affinity Group in 2019.

Divya strongly believes in *creating opportunity & refining leadership skills*. In all her deliverables, several people from various sectors were given the opportunity to contribute. Many platforms were created wherein WIE members got the opportunity to refine their leadership skills. This has resulted in her securing the prestigious "IEEE Bangalore Outstanding Volunteer 2018" and "Outstanding Large Chapter/Affinity Group 2019" awards.

She is passionate and has contributed towards membership development as well as supporting eligible members to senior member elevation. Towards this she has organized booths at IEEE conferences, workshops and online help desk. She has travelled to many Student Branch inaugurations, delivered technical talk and coordinated IEEE collaborative meetings. Bangalore Section received the "SILVER MEDAL" of recognition for meeting its recruitment goal.

She is currently working as Joint Director, SDOS group, at Centre for Development of Advanced Computing (C-DAC), Knowledge Park, Bangalore. Earlier, she was working as a scientist at Core R&D, ITI Ltd, Bangalore. She has over 25 years of experience in Telecommunication and Distributed Computing. Her education background is B.Tech, M.S, and MBA. Her areas of interest are Software Engineering, Project Management, Telecommunication, High-Performance Computing (HPC), Grid & Cloud Computing and Vehicular Technology. She has various publications to her credit and has given presentations at national and international conferences.

Her few notable contributions through WIE AG Bangalore Section include:
- Designed and launched Section Website at http://wie.ieeebangalore.org/
- Created email alias where anybody can reach WIE ExeCom through wieblr@ieee.org
- Started a newsletter to reach out to all WIE members with WIE activities and accomplishments
- Designed (and officially approved by IEEE) the logo for Bangalore Section WIE AG

Under her leadership, the following events were successfully conducted:
- International Leadership Summit (ILS2019) – Over 350 delegates and dignitaries from around the world including USA, Japan, Thailand and Sri Lanka participated,
- IEEE International WIE Conference on Electrical and Computer Engineering (WIECON-ECE 2019) – Executed in collaboration with Bangladesh Section,
- Collaborated with AnitaB.org India and executed Original Research track at the GHCI 19 conference,
- International Conference - Returning Mothers - Rediscovering the lost talent pool – IEEE Women in Engineering and the World Bank Group on Energy and Extractives successfully conducted this conference,
- Participated and contributed in Ph.D Colloquium,
- Ottige Kaliyona – A starring event in the form of a community outreach program designed to empower students of government & municipal schools with life and technical skills.

R10 YP Personality of the Month – Vamsi Krishna Jadala

Hyderabad Section

"Cow never gives milk, we squeeze milk from the cow. IEEE wouldn't give you anything, you take out what you need from IEEE", this membership pitch made to Vamsi Krishna Jadala at his college made him join IEEE & he has never left an opportunity to leave any stone unturned. Vamsi has been an active member of IEEE since 2012, holding several responsibilities from the student branch level to the IEEE MGA SAC Virtual Speakers Bureau. He is currently volunteering as the Vice-Chair for ECIM at IEEE India Council, and the Chair for IEEE Hyderabad Young Professionals. He is currently on the committee of IEEE Students Virtual Speakers Bureau, an initiative started by the Student Activities Committee in 2020, which helps students & student branches find virtual speakers using online tools & resources. Vamsi is a recipient of 2019 MGA IEEE Young Professionals Achievement Award. Prior to this, he volunteered in the roles of Vice-chair for Young Professionals India Council, Secretary for IEEE Hyderabad YP AG, and Ambassador for IEEE Day for Section and Region. Nine years into volunteering as an IEEE Member, Vamsi now helps his fellow volunteers for sustainable development and foster the spirit of volunteering in IEEE.

Vamsi holds a bachelor's degree in Electronics & Communication Engineering from Vignana Bharathi Institute of Technology (VBIT), Hyderabad India. His key expertise lies around program management, technology validation, idea validation, policy making, leadership in motivation of dynamic teams along with strong program management & organizational skills. With a career spanning over the last 5 years, he is highly effective in communicating and maintaining employee & volunteer morale while maximizing productivity with efficiency. After his stint at Extravelmoney & Veeble, he joined stuMagz - a student discovery platform made with love for India and has received several accolades along with being listed in Forbes Asia 30 under 30 in 2018. In 2019, Vamsi joined TiE [The IndUS Entrepreneurs] Hyderabad, a non-profit organization supporting start-ups through networking, and raising of capital for new and experienced entrepreneurs as **Program Champion** spearheading Education Initiatives.


Vamsi volunteered with IEEE Education Society Student Activities Committee for the years 2015 to 2017 working on D2S (IEEE Direct to Students, Direct to Society). This is an initiative launched by IEEE Education Society in Philippines in 2013 and now has spread to all regions. The background of the project was to provoke engineering students to build homemade solutions to meet people's problems, whenever there was a natural disaster. D2S aimed to empower rural and urban informal sector youth to address district problems via frugal engineering innovations. It was during his mentorship the IEEE VBIT Student Branch received the Region10 Exemplary Student Branch Award in the year 2015 and the Best Website Award in the year 2018.

Vamsi has been an integral part of over 100 events over the last 9 years of his active membership (both student & YP), which includes major events like IEEE R10 SGW-Hyderabad, IEEE R10 SYWLC-Bangalore, IEEE All India Student Young Professional Women in Engineering Congress (2015 to 2019), IEEE WiE Leadership Summit (2015 to 2018), IEEE Technology Entrepreneurship Summit (first of its kind in Indian OU towards entrepreneurship), All India Computer Society Student Young Professional Congress 2016-Hyderabad & IEEE INDICON as a vibrant

volunteer. These are major events in IEEE India as well as in IEEE Region 10. Most of the events volunteered or spearheaded by Vamsi involves bootcamps, workshops, technical training, meet-ups, etc.

Vamsi plays a vital role in connecting the current Graduate Student Members & Young Professionals in collaborating with the industry regularly at various events and helping them understand **what they want versus what they need.** Vamsi is also a Program Mentor of **IEEE VOLT** [Volunteer Leadership Program] since 2019. When asked about what volunteering means to him, Vamsi recollected this famous quote by Sherry Anderson which is *"Volunteers don't get paid. Not because they are worthless, but because they are priceless".* When asked about what new volunteers should keep in mind when it comes to volunteering: "*Persistence & patience are the key. Positions come and go, you as an individual with your ethics to help/develop the community remain.*"
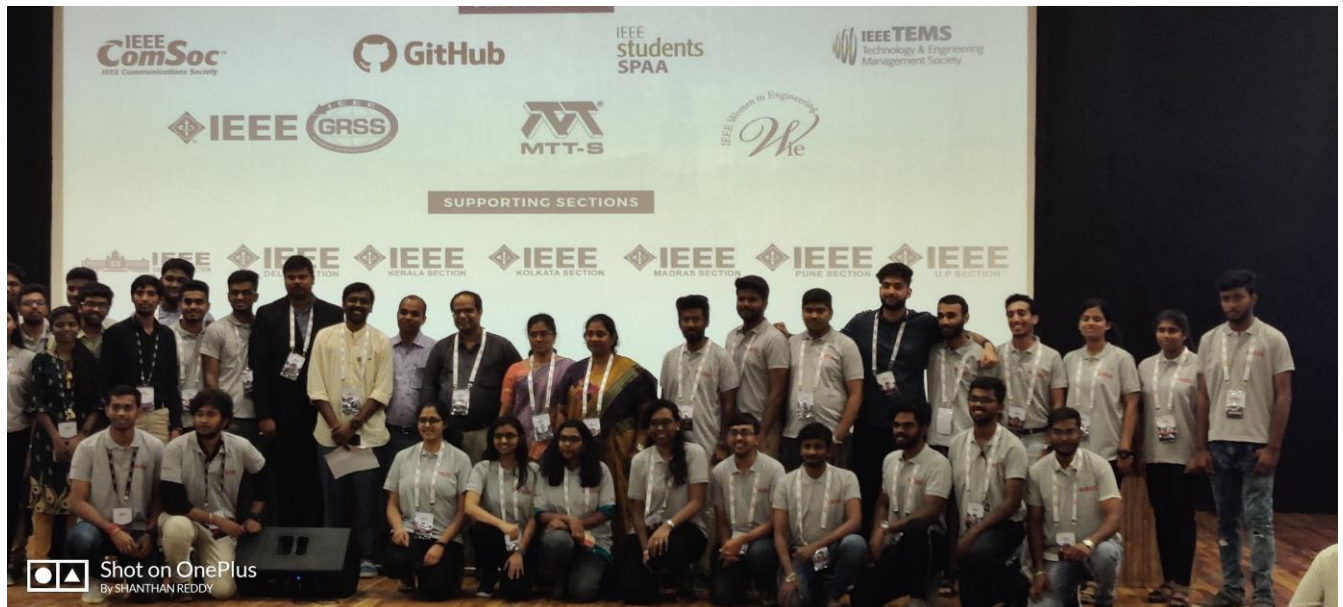
R10 Student Personality of the Month – Tharushi Nathasha

New South Wales Section

Experiences define who we are - for Tharushi, IEEE has been a place of inspiration, knowledge, opportunities, and connections that would shape her whole life. As a Student Member of IEEE for over five years, Tharushi's experiences at IEEE Student Branch, Sectional, and Regional level have exposed her to IEEE's various volunteering bases, which made her more passionate about volunteering. Her volunteering stint with IEEE started back when she was doing her Bachelor's degree in Electrical & Electronic Engineering at Sri Lanka Institute of Information Technology (SLIIT).

Out of the dozens of Student Branches in Sri Lanka, the IEEE Student Branch of SLIIT thrives among the most active in the island. Tharushi was privileged to become its Secretary in 2017 after volunteering in the Student Branch for almost two years. This, together with her involvement with the WIE affinity group, paved the way to many diverse experiences. From the most fundamental aspects of volunteering such as organizing technical workshops for her colleagues to making a difference by reaching out to rural schools to guide and inspire, the road paved by her Student Branch was vital in her onward journey, as a volunteer and as a future professional.

On her journey to becoming the Section's Student Representative (SSR) in 2019, there were many experiences at the Sectional level, which shaped her into the role. In 2018, she was selected as the Secretary of the IEEE Innovation Nation Sri Lanka. This project was in its first year of global expansion. As a project that thrives on creating aspiring entrepreneurs in third-world countries that can benefit from that economic boost, she gained opportunities, made connections, and solidified the project in Sri Lanka as an integral part of the team. The project is now into its third year in Sri Lanka, and it has further expanded into Malaysia. The

leadership skills demanded by the role as the Secretary in this project were mainly bestowed on her through the experience of being a Secretarial Team Member in Sri Lanka's largest gathering of IEEE members, IEEE Sri Lanka Section SYW Congress 2017. This massive project showed Tharushi how volunteering with IEEE was a chain of experiences that strengthened one's personality.

One of the unique projects that she was involved in was IEEE Chronicles. This was a pilot project funded by the IEEE New Initiatives Committee which focused on creating video documentaries on how successful people came to where they are today. Their early years, the decisions made (both good and bad), the mishaps and of course, and the spectacular successes. The final documentary videos for this purpose were a combination of life stories, casual conversation and an interview where Tharushi functioned as the project manager and the interviewer. She was able to make contact with prominent figures in Sri Lanka, who rose to great heights through self-perseverance and learning through their mistakes.

IEEE Sri Lanka Section Student | Young Professionals | Women in Engineering Congress 2018
Photographed by Saditha Dissanayake
Day 2

All these experiences paved her to serve the Sri Lankan student community to the best of her ability as the SSR in 2019. During her active term, Tharushi and her team were able to successfully execute "Ayubowan IEEE", courtesy of the R10 Joint Student Branch Initiative Fund 2019 and IEEE Sri Lanka Section. Moreover, as an active member of the WIE affinity group since her undergraduate days, she continues to give her support to this integral part of the IEEE platform as the editor of the IEEE WIE Affinity Group Sri Lanka Section.

Rooting from her educational background in the power sector, she has been a member of the Power & Energy Society for more than three years, leading her to become the Chair of Educational Activities for IEEE PES Day 2020. After migrating to Australia for her Masters in Electronics Engineering, she is currently engaged with the IEEE New South Wales Section, in particular, with the NSW Education Chapter as the Promotional Chair. Tharushi is also a part of the IEEE Region 10 Student Activities Committee (SAC) Training & Webinar team as well as the newly formed IEEE SAC MGA Excellence team catering towards the improvement of IEEE Students.

When inquired about her approach to balancing her professional life together with all the levels of volunteering she does, Tharushi says it's all about priorities and being available at the right time. Looking back at the past five years, volunteering with IEEE has shaped Tharushi's life very vibrantly. It has gone beyond the actual scope of volunteering to something that has impacted her life as a professional in the best ways possible.

R10 ORGANIZATIONAL UNITS (OU) OF THE MONTH

3. R10 ORGANIZATIONAL UNITS OF THE MONTH

R10 Large Section of the Month - Bangalore Section

Prepared by: Puneet Kumar Mishra, Chair for IEEE Bangalore Section

IEEE Bangalore Section was established in 1977. Over the years, the strength of the section has grown steadily and as on 31st December 31 2019, the Section membership stands at more than 8800. This membership is spread across various sectors and is a nice blend of Industry, Academia and Research organizations. The Section has conducted over 1000 Technical Activities in the year 2019, with the help of Student Branches and Society Chapters. IEEE Bangalore Section has 2 Subsections, 29 Society Chapters and 4 Affinity Groups.

Bangalore Section covers the entire geographical boundary of Karnataka State. Bangalore is the capital city of Karnataka, a popular destination for many IEEE conferences and events. In 2016, Bangalore was the host city for the 3 major events of IEEE Region 10 namely: IEEE R10 50 Years Celebrations Inaugural Function, IEEE R10 WIE Global Summit and IEEE R10 SYWLC Congress. Bangalore was also one of the host cities to celebrate 125 Years of IEEE. This year, Bangalore Section hosted 2020 IEEE 5G World Forum.

Bangalore Section is working on multiple fronts to bring vibrancy and vitality among Student Branches (SB) and Society Chapters (SC). To encourage these OUs, a unique performance-based and membership-dependent Section support scheme is introduced to financially support them up to INR 50K per year. As part of outreach and member engagement, district coordinators are appointed in each district of Bangalore Section. For faster communication and ensuring timely implementation of Section initiatives, quarterly meeting of SB Counselors and SC Chairs is arranged. To ensure compliance with MGA operations manual, Chapters/AGs are encouraged to conduct AGM along with Section AGM.

Bangalore Section has conceived and successfully implemented flagship events for Academia/R&D organizations and Industry Professionals, namely IEEE CONECCT and Bangalore Technology Conclave (BTC) respectively. This year onwards, a flagship Humanitarian Technology Conference named Bangalore Humanitarian Technology Conference (B-HTC) is introduced. Chapters/AGs are also encouraged to own and manage a dedicated track in these flagship events. The entire logistics and financial support is provided by the Section. Students are the future of any country. Through Students Humanitarian Technology Project, Student Travel Grants, at least 50% discount in registration fees, skill development programs, tutorials and mentoring, Bangalore Section is doing its bit to support them.

As part of digital transformation Conference TCS approval process, event registration (along with member authentication) and reimbursement process is made online. The Section has invested heavily on all the social media platforms and made its presence to disseminate the information in a much faster way in addition to eNotice. The Bangalore Section has won several awards and accolades, including the 2013 & 2019 MGA Outstanding Large Section Award and 2013 & 2020 R10 Outstanding Large Section Award.

R10 Medium Section of the Month – Karachi Section

Prepared by: Bhawani Shankar Chowdhry, Chair for IEEE Karachi Section

IEEE Karachi Section was formed as a Subsection on 22nd May 1978, and later upgraded to Section on 17th July 1982. It is one of the three Sections in Pakistan with Lahore and Islamabad Sections being the other two. The newly inaugurated Quetta Subsection also comes under the ambit of the IEEE Karachi Section. IEEE Karachi Section has more than 50 student entities which includes 30 IEEE Student Branches, 5 IEEE Women in Engineering (WIE) Affinity Groups, and over 20 IEEE Student Branch Chapters in the cities of Karachi, Hyderabad, Jamshoro, Sukkur, Nawabshah, Khairpur, and Quetta. The Section also comprises the Young Professionals (YP) and WIE Affinity Groups, and Technical Society Chapters of Power and Energy Society (PES), Computer Society (CS) and Communication Society (ComSoc). It also has a joint Robotics and Automation Society (RAS) Chapter with IEEE Islamabad and Lahore Sections. A new chapter of Industrial Applications Society (IAS) is also proposed to start this year.

In 2014, IEEE Karachi Section volunteer, Mr. Ahsan Saeed, got selected as the recipient of the Global MGA Young Professionals Achievement Award for exemplary contributions to IEEE Young Professionals in Region 10 and for continuous support to the IEEE Academic project. Similarly, Engr. Sarang Shaikh won the 2018 MGA Young Professionals Achievement Award for outstanding contributions to volunteer and member development at the regional level. IEEE Karachi Section was also awarded the Outstanding Section Membership Recruitment and Retention Awards in 2016 and 2019, as well as the R10 Section Incentive Award in 2018. In 2017, IEEE Karachi Section Chair received the prestigious Distinguished National Professor Award by the Government of Pakistan.

IEEE Karachi Section organizes several conferences and events on a regular basis which include, among others, the IEEE International Multitopic Conference (INMIC), IEEE SCONEST, IEEE Pakistan Student/YP/WIE/SIGHT Congress (PSYWSC), Karachi Section Student Congress (KSSC), IEEE Technically sponsored conferences ICIET, ICICT, ICE CUBE, ICIEECT, INTELLECT, IMTIC, iCOMET, Young Professionals Summit, Volunteer Leadership Training (VOLT) and Student Professional Awareness Activities (SPAA). Apart from these major events, several other events are organized by Student Branches, YP AG and WIE AG.

IEEE Karachi Section strives to contribute towards the advancement of technology and to help professionals improve their local and global strata. Several volunteers from IEEE Karachi Section have served on various positions on Region and Global level including Engr. Parkash Lohana (R10 MD Chair 2020), Engr. Sarang Shaikh (MGA IEEE madC Global Chair 2017-2018) and Prof. Dr. Tariq Rahim Soomro (Southern Area Coordinator of R10 Computer Society for 2020).

R10 Small Section of the Month – South Australia Section

Prepared by: S. Randhawa, E. Hodgins, L. Rosenberg and B. Ng, Exec Com for IEEE South Australia Section

The IEEE South Australia (SA) Section was chartered on 23rd August 1985. It has grown in membership from 154 members in 1987 to 460 members in 2020. This Section has several IEEE Society Chapters: Communications/Signal Processing (1992), Antenna Propagation/Microwave Theory and Techniques (1993), Control/Aerospace and Electronics Systems (1995), Computer (1998) and Ocean Engineering and Power & Energy (2014). A Young Professionals Affinity Group (AG) was formed in 2003, Life Members AG in 2007 and Women in Engineering AG in 2009.

The SA Section has sponsored and co-sponsored several conferences in Adelaide, South Australia financially such as ICASSP 94, ADFS 96, IDC 02, RADAR 2003, IDC 07 and ICON2007. The Section has also supported many other conferences technically, for example APMC 2000, ASCC 2004, the 5th Biennial Asian Control Conference in Melbourne, ISSTA 2004, the 8th IEEE International Symposium on Spread Spectrum Techniques and Applications in Sydney, PDCAT 2007, DICTA 2007, RADAR 2008, BICTA 2008, ATNAC 2008, RADAR 2013 and RADAR 2018.

The Control/Aerospace and Electronic Systems (CAES) joint chapter has been very active over the past few years with a regular seminar series, annual networking functions and more recently short courses. Based on these successes, the SA Section won the AES best chapter award in 2018 and a short course program was established at the AES corporate level. The chapter is now running an online series of monthly seminars with a virtual short course planned for February 2021.

The Section's LMAG has an active annual program of technical presentations targeting a general engineering audience. It operates in cooperation with a Retired Engineers Group founded under the auspices of the (UK) IET and has a combined mailing list of 90. This year a program of six presentations had been planned in a traditional format. With COVID restrictions in place, these meetings all moved to a web format (Zoom), as did the executive meetings of the LMAG. The results of these meetings have been very encouraging; members have embraced the digital delivery format with remote 'attendances' roughly double the expected numbers and Q&A sessions were conducted without difficulty. The Section plans to combine face-to-face meetings with digital delivery to maximize flexibility for members in the new `normal'.

Since 2014, the Section's WIE AG has run an annual STEM workshop targeting girls in rural schools. This workshop includes inspiring talks by woman engineers and scientists, hands-on robotics programming, as well as science and engineering experiments. Girls from rural areas are significantly under-represented in university STEM programs. The aim of this workshop is to raise awareness of STEM occupations amongst rural high school students (especially girls), and encourage them to consider studying STEM subjects at university. It is also an opportunity for girls to meet and network with other women in STEM.

Since 2018, the Section has held a very successful Student-Industry Networking event. It is aimed at engineering students from the three SA universities to network with and connect to the various engineering companies/organizations in Adelaide.

The IEEE South Australia Section was the winner of both the Region 10 Outstanding Small Section Award in 2007 and the Member and Geographic Activities (MGA) Board Outstanding Small Section Award in 2007. In the past, the Section was the winner of the Region 10 Outstanding Small Section Award in 2003 and the inaugural recipient of the IEEE Regional Activities Board Outstanding Small Section Award in 2003. In 2018, the Section was recognized by the IEEE MGA MRRC for achieving its membership development goals. One of these recognitions was for Outstanding Section Membership Retention Performance and the other was for Outstanding Section Membership Recruitment and Retention Performance.

R10 Student Branch of the Month – A. D. Patel Institute of Technology

Prepared by: Ms. Divya Chhabaria, Chair for IEEE ADIT Student Branch

A proverb reads, 'A journey of a thousand miles begins with a small step'. And since its foundation in 2008, the IEEE Student Branch at A.D. Patel Institute of Technology, CVM University has set a perfect illustration of this thought. Currently comprising of 6 Chapters, 1 Affinity Group, and a Special Interest Group, IEEE ADIT SB has left its mark at numerous levels. It has extended its multi-dimensional efforts for the achievement of its core purpose - 'to foster technological innovation and excellence for the benefit of humanity'.

Following are the major endeavors of IEEE ADIT SB:

INSPIRO

Inspiro is the annual flagship event of IEEE ADIT SB, which has gained immense recognition by the Gujarat Section as well as Region 10. Inspiro & Inspiro 2.0, organized in the years 2018 and 2019, with the tagline: "Inspiring Young Minds", has been a foundation stone for its participants to build their careers by giving them the platform to connect with over 400 delegates & speakers from various places across India. It is a two-day event, with 12 eminent speakers delivering talks aimed at creating professional awareness amongst students, providing collaborative opportunities through networking activities, and blending the essence of diversity with cultural shows.

AICSSYC'19

All India IEEE Computer Society Students & Young Professionals Congress is an annual flagship conference organized by the IEEE Computer Society. The IEEE ADIT SB was honored with the opportunity to host the 2019 edition of the congress. It was a highly versatile 3-day event involving 13 keynote sessions by the speakers from a variety of domains. The Student Branch hosted over 250 delegates from 11 different Sections for an extravaganza involving networking activities, cultural events, and numerous technical and non-technical workshops.

SAMPARK'19

The IEEE ADIT Student Branch was pleased to host "SAMPARK", the Gujarat Section Annual General Meeting involving all the Student Branches affiliated to the Gujarat Section in March 2019. This is a common platform wherein new ideas from each Student Branch are discussed, and experiences are shared. The event provides an opportunity to discuss action plans with the Section Executive Committee & fellow student members, resolving issues of the Student Branches.

Virtual events during the global pandemic

To keep the momentum going during the COVID-19 pandemic, the Student Branch has successfully organized various online events on a large scale. Whether it might be inviting young & dynamic technocrats like Tanmay Bakshi to unfold the concepts of Deep Learning to over 1500 participants, or organizing a week-long webinar series 'IEEE ADIT Web Talks', the efforts put in to channelize skill development are remarkable. By fostering team spirit and collaboration, the branch had also organized an 8-day long event, Coalesce'20 in collaboration with all of its constituent chapters, affinity, and special interest groups. The assortment of coordinators, participants, judges, and mentors, made the event a grand success. The ADIT SB has also been active in celebrating occasions like IEEE SIGHT Day, IEEE PES Day, IEEE PELS Day & International WIE Day by initiating Social Media Campaigns, e-symposiums and technical competitions in the present period of the pandemic.

Achievements that brought glory to the Student Branch

➢ Best Student Branch of the Year Award 2018 by the IEEE Gujarat section.
➢ R10 Student Activities Committee Outstanding Student Branch Award in 2019
➢ IEEE Regional Exemplary Student Branch Award 2019
➢ IEEE Outstanding Branch Counselor and Branch Chapter Advisor Award for Prof. Harshul Yagnik

The IEEE ADIT SB has always been fortunate to have an enthusiastic team of volunteers who have endlessly extended their efforts in raising the bar and making the SB feel proud. The Student Branch is immensely pleased to highlight some of the achievements of its volunteers:

➢ March '19: Raj Mrug and Maitri Rana won the "Best Volunteer of IEEE ADIT SB of 2018 Award" by the Gujarat section.
➢ April '19: Maitri Rana makes her way to the IEEE INDIA COUNCIL 2019 Student Coordination Team.
➢ December'19: Axat Patel bags the IEEE Outstanding Student Volunteer-Age under 35 (India Council) Award
➢ December '19: Tanvi Makadia gets selected as the Vice-Chair–Student for the IEEE Computer Society Student & Young Professional Activities Region 10 – India Committee.
➢ January '20: Jalak Gajera and Tanvi Makadia were honored by the IEEE Gujarat Section with "Best Volunteer of IEEE ADIT SB of 2019 Award."
➢ April '20: An article was published in IEEE USA INSIGHTS written by seven members of the Student Branch.
➢ April '20: Vaibhav Kothi was appointed as Design Coordinator & Committee Member, Newsletter & ECIM, IEEE India Council – 2020.
➢ May '20: Aditi Desai and Dhruvinsinh Rathod were selected in IEEE India Council Student Coordination Team as a Content Team Coordinator and Webinar and Online Training Team Lead respectively.
➢ Sarthak Shah, Axat Patel, Ashish Arora & Maitri Rana have won the Richard E. Merwin Student Scholarship.

R10 COVID-19 Personality of the Month – Indonesia Section

Prepared by: Muhammad Sabirin Hadis, Student Activity Committee for IEEE Indonesia Section

Humanitarian Project of IEEE Indonesia Section in Collaboration with Balla Cerdas, STMIK AKBA and ACT Sulawesi Selatan: Development of Automatic Handwash Portable Machine

The COVID-19 pandemic has ushered us into a new normal wherein people who are carrying out normal activities are required to apply health protocols to prevent increase in transmission of COVID-19 until such time that vaccines are administered to all. These protocols include wearing masks when leaving the house, washing hands regularly and keeping social distance in activities.

No doubt, preventing the transmission of COVID-19 still requires a lot of support. This is what prompted the IEEE Indonesia Section to distribute 10 units of Automatic Handwash Portable Machine (AHPM) to 10 different points in Eastern Indonesia, specifically in Makassar, South Sulawesi. The 10 identified locations are the Public Health Center of Mangasa, Haji Hospital, Bhayangkara Hospital, Labuang Baji Hospital, Pelamonia Hospital, LLDIKTI Region IX, Faisal Islamic Hospital, Rindam XIV Hasanuddin, DR. Wahidin Sudirohusodo Hospital and Daya Hospital. The IEEE Indonesia Section collaborates with the Balla Cerdas Company, the Institute of Higher Education and Computer Management STMIK AKBA, and Non-Governmental Organization Aksi Cepat Tanggap (ACT) Sulawesi Selatan for this humanitarian project.

Prof. Dr. Eng. Wisnu Jatmiko, the Chair for IEEE Indonesia Section said that the focus of assistance was given to Eastern Indonesia, especially the city of Makassar, South Sulawesi province because it was the only area with a red zone status compared to other regions in Eastern Indonesia. The objective of AHPM is to make it easier for the community to carry out the good habit of washing hands so as to minimize transmission of COVID-19.

Muhammad Sabirin Hadis, the Chief Executive Officer (CEO) of Balla Cerdas, who is also part of IEEE Indonesia Section Committee, acts as the Team Leader for the Automatic Handwash Portable Machine Project for distribution to the community. He took an active role in conveying the advantages of the tools directly. He said, *"Washing hands no longer requires any touching. The proximity sensor in AHPM makes the soap and water automatically come out if one simply puts the hand close to the water and soap tap, thereby minimizing the risk of transmitting the COVID-19 virus through the tap. AHPM is also portable, which means it is easy to move because it is equipped with wheels and can be placed anywhere, indoors or outdoors. It is also equipped* with its own water and electrical energy storage. If the AHPM is in low battery, the hand washing operation can be switched to manual mode using a pedal. As a result, both automatic and manual modes are safe and contact-free to prevent transmission of the COVID-19 virus.*"*

Head of ACT Sulawesi Selatan, Catherin Imran, added, *"The presence of this tool made by the nation's children can further motivate people to be diligent in washing their hands in the current new normal era. AHPM has been designed by the IEEE Indonesia Section in collaboration with Balla Cerdas and STMIK AKBA, as a solution for people to diligently wash their hands without having to make direct contact with tools."*

"This assistance is not only distributed to Health Service Units such as Hospitals but also distributed to Government Agencies which are known to be locations frequently visited by the community on a large scale" said Muhammad Arafah, the Deputy Chair of Cooperation and Promotion STMIK AKBA. He added, *"Thus, the presence of this Automatic Handwash Portable Machine can make people more disciplined in washing their hands according to the government's appeal in the new normal era like today."*

R10

UPDATES

4. R10 UPDATES

IEEE R10 EAC Educational Activities Updates

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

IEEE R10 Ethics in Action

A revision of the **IEEE Code of Ethics** was adopted by the IEEE Board of Directors in June 2020. Members are expected to accept a personal obligation to the profession and commit to the highest standard of integrity, responsible behaviour, and ethical conduct in professional activities. On the other hand, more and more autonomous and intelligent systems are deployed in the society, but questions have been asked that whether such systems are conforming to the expected ethical standards and behaviours. To this end, the **IEEE SA** and the **IEEE Global Initiative on Ethics of Autonomous and Intelligent Systems** have carried out world leading work in the production of resources such as the Ethically Aligned Design series, eLearning modules and IEEE Standards P7000 to address the issues. The IEEE R10 EAC organised a webinar on **8th August 2020** to promote the above and aimed to raise members' understanding and awareness of the issues. The webinar invited speakers including Professor S.K. Ramesh (2016-17 VP IEEE EAB), Dr. Greg Adamson (Chair, Ethics and Member Conduct Committee), Dr. Konstantinos Karachalios (MD, IEEE SA), Mr. John Havens (Executive Director, IEEE Global Initiative of Ethics and A/IS) and Mr. Yatin Trivedi (Treasurer and Member of BOG, IEEE SA). Ms. Purva Ekatpure and Mr. Aravindhan Anbazhagan did an excellent job of organising the webinar and promotion of the event. The webinar was well attended and lively interaction was exchanged during the Q&A, with discussions among the panel members. It is believed that attendees of the event have benefited richly from the sharing by the speakers, thereby raising the awareness of the issues among the community.

IEEE R10 Project Reaching Locals

The IEEE R10 EAC Project Reaching Locals has been actively pursued by many IEEE OUs in Region 10. The Japan Council has conducted many sessions in Japanese under the IEEE Engineering Spotlight program (https://www.ieee-jp.org/japancouncil/affinitygroup/R10_Spotlight/) and the production of subtitles in Japanese and Chinese for the ICRA2019 keynote (https://www.youtube.com/watch?v=yMoQV1-pFAk). The Indonesia Section has organised and hosted a webinar series with speakers in Indonesia as well as international speakers delivered in English. (https://www.facebook.com/Webinar-IEEE-Indonesia-Section-102053114885311/). In India, the Hyderabad Section has also conducted webinars in Hindi, Telugu and Urdu, while other Sections have expressed their interest to do similar events. IEEE China Council and Sections are also actively promoting IEEE in Weibo (https://weibo.com/u/2008779105?is_all=1#_loginLayer_1599156817266), the China Social Media channel.

IEEE SYWL 2020

An online presentation of the IEEE Educational Resources, Educational Activities and update of the IEEE Project Reaching Locals will be held in the IEEE SYWL Congress on 20th September, 2020. Speakers include Professor Stephen Phillips (VP, IEEE Educational Activities Board), Mr. Jamie Moesch (Managing Director, IEEE Educational Activities), Professor Takako Hashimoto, (EAB Pre-University Education Coordination Committee), Dr. Nia Kurnianingsih, (Vice-Chair, IEEE Indonesia Section), Dr. Amit Kumar, (Chair, IEEE Hyderabad Section), Professor GaoYun An, (Secretary/Treasurer, IEEE Beijing Section) and Professor Lance Fung (Chair, IEEE R10 EAC). Professor

Phillips and Mr. Moesch will introduce the resources from IEEE EAB and in particular the multi-lingual platform for TryEngineering and related sites. Professor Hashimoto, Dr. Kurnianingsih, Dr. Amit Kumar and Professor GY An will share their work and best practices on the use of local languages for the promotion of IEEE and Educational Resources in Japan, Indonesia, India and China respectively.

IEEE R10 LMAG Committee Updates

Rajendra K.Asthana, Chair for IEEE R10 LMAG Committee

The IEEE R10 Life Member Committee has so far held 3 e-Meetings. 1st in February, 2nd in May and 3rd in July 2020 to discuss & finalize new activities, procedures and future events. The MGA LMC held 5 meetings, 4 WebEx meetings in January, March, May & June 2020 besides one physical meeting in San Antonio, Texas.

LMAG Tokyo has so far conducted 4 meetings in Virtual mode including the LMAG Tokyo Officers meeting in February, AGM in April, Lecture Meeting "CPS-driven Social Innovation for Society 5.0" in June 2020 and Lecture Meeting "Frontier of AI and Face Recognition Technology" (Photo attached). The LMAG Tokyo has planned for (1) Technical tour associated with IEEE Milestone, and (2) an Evening Salon to be sponsored by LMAG and TPC of IEEE Tokyo Section.

LMAG Delhi has so far conducted 16 meetings including physical AGM, 2 ExCom virtual meetings and 13 joint technical/professional virtual events (Webinars). LMAG Delhi has planned to host LMAG India Meet during AISYWL Virtual Congress 2020 during December 2020.

R10 LMC launched its maiden award for R10 Life Members, called "R10 Life Member Outstanding Volunteer Award". Call for nomination was issued in March with closing date of 15th May 2020. Four nominations received were evaluated and the award has been bagged by Kerala Section LM volunteer, Mr. A.G. Hareendra Lal, LSM. Congratulations to Mr. Hareendra Lal and Kerala Section.

IEEE Region 10 Student, Young Professionals, Women-in-Engineering and Life Member Congress 2020 (R10 SYWL2020) was initially planned physically in Bangkok during September 2020 but due to COVID-19 pandemic, the event is being held in virtual mode from 19th September to 4thOctober 2020. The theme of the Virtual R10 SYWL Congress 2020 is "**Pandemic to Opportunity – Collaborative Leadership towards Technology Advancement for Humanity".**

The main attractions for LMs at the SYWL Congress are (1) An "IEEE Life Members Photographic Competition and Exhibition" to recognize IEEE Life Members' photography talent, where 5 prizes in 2 categories amounting to $950 awaiting the winners; (2) Three Life Members will share their "Success career journey in IEEE"; (3) Informative session on "Life Members Activities", "IEEE Milestones", V tools, IEEE Collabratec etc. A meeting with all 16 LMAGs in Region 10 will also take place to share their activities and achievements amongst LMAGs. Due to COVID-19 pandemic, many activities planned by different LMAGs are adversely affected and wherever possible are being held in virtual mode.

IEEE R10 Directors' Dialogue

[Immediate Past, Present, Future]

Organized by R10 Information Management Committee, R10 Newsletter Committee and IEEE Singapore Office
Written by Ewell Tan, Project Manager, IEEE Asia-Pacific Ltd.

IEEE Region 10 (a.k.a. Asia-Pacific region) represents the largest region in IEEE with more than 135,000 members. Recognizing the importance of the members and volunteers, who are the core foundation of IEEE, a webinar on IEEE R10 Directors' Dialogue [Immediate Past, Present, Future] was organized in collaboration with R10 Information Management Committee, R10 Newsletter Committee and IEEE Singapore office on 8th August 2020, to provide a platform for members and non-members to have an interactive dialogue session with the IEEE and Region 10 leadership.

This webinar was presided by IEEE President & CEO, Prof. Toshio Fukuda and IEEE Executive Director, Mr. Stephen Welby, as the Guest of Honor. Dr. Kurnianingsih, R10 Information Management Committee Chair, gave an opening introduction at the start of the webinar and highlighted the objective of this webinar to bring IEEE members closer, encourage teamwork and inspire thinking to overcome obstacles and challenges amidst COVID-19. Prof. Toshio Fukuda and Mr. Stephen Welby also inspired the participants with their address. Three R10 Directors [Immediate Past, Present and Future] each gave a presentation and shared their insightful perspectives.

R10 Director, Prof. Akinori Nishihara spoke on "How IEEE Contributes to Society at Large and Communities during and after COVID-19?". Prof. Akinori shared his insightful view on IEEE value proposition, community structure and the relationship between IEEE entities. R10 Director-Elect, Mr. Deepak Mathur addressed the future of IEEE, especially on membership recruitment, retention, and member engagement with his topic on "Building a better future post COVID-19: IEEE Region 10's plan for members and volunteers." R10 Immediate Past Director and VP of IEEE MGA, Prof. Kukjin Chun, delivered a talk on "What kind of leadership do we need for R10 in the new era post COVID-19?". During this presentation, Prof. Kukjin highlighted that resilient leaders are essential to the organizations and he shared the key leadership skills, such as empathy, embracing all and empowerment needed for future leaders.

An interactive Q&A session began after the three Directors' presentation and was moderated by, Prof. Takako Hashimoto, the R10 Secretary. Participants were actively involved in the Q&A session and had their questions answered by the IEEE R10 leaders. The questions and answers is made available in the R10 Website. The webinar was successfully concluded by R10 Newsletter Committee Chair, Dr. Mohammad Faizal Ahmad Fauzi. Dr. Faizal expressed his appreciation on behalf of the organizing committee and encouraged participants to join the upcoming R10 events. Overall, this webinar provided an exciting opportunity for members and non-members to interact and familiarize themselves with IEEE Region 10, with a key message to inspire transformation and motivate everyone to emerge stronger after the global pandemic.

IEEE R10 Conference Leadership Program 2020

A Region 10 Initiative

Deepak Mathur, IEEE Region 10 Director-Elect

IEEE Region 10 organized its second Conference Leadership Program (CLP) on 6th – 7th October 2020. The program was initially planned to be held in India and China, but due to COVID19 pandemic situation, it was organized online. Approximately 88 delegates from 8 countries of Region 10 participated in the program.


The program was planned to serve the needs of IEEE conference organizers. The course was designed by MCE for Region 10 after having detailed discussion with Region 10 volunteers. Delegates completed pre-CLP on-demand courses in the IEEE Center for Leadership Excellence (CLE). Fred Schindler was the main speaker and covered topics on IEEE Technical Co-Sponsorship fundamentals, plagiarism and peer review process. Bangalore Section Chair, Puneet Mishra shared experiences and best practices from the Section in successfully organizing conferences. John Tracy moderated the session and Kevin Hanft provided all supports.

IEEE R10 SAC Webinar

Webinar on "Improving Student Experience and Boosting Membership"

Pranav Raikote, Content Writer, Media and Publicity Subcommittee of IEEE R10 Student Activities Committee
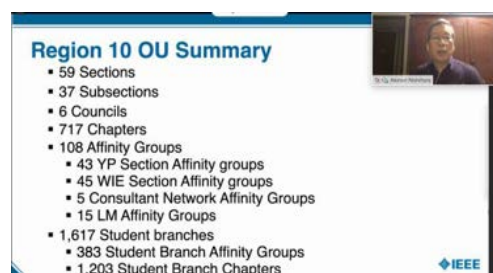
The main aim of organizing the Webinar was to connect Students and Region 10 Leadership for interaction and sharing ideas and be a voice of student representatives from 4 main sub-regions namely South-East Asia, South Asia, Oceania and North Asia. The webinar was conducted on 19th July 2020 on the Cisco WebEx platform and also live streamed on Facebook Live. Prof. Binh, IEEE R10 SAC Chair; Ms. Saaveethya Sivakumar, RSR, IEEE R10 and Ms. Tharushi Natasha, IEEE R10 SAC were the moderators for the Webinar. This is the first regional webinar which had the Past, Present and Future Directors of IEEE Region 10.

The speakers for the webinar were 3 eminent personalities in IEEE Region 10 - Prof. Akinori Nishihara, IEEE Region 10 Director for 2019-2020; Prof. Kukjin Chun, IEEE Region 10 Director for 2017-2018; and Mr. Deepak Mathur, IEEE Region 10 Director-Elect for 2019-2020. Prof. Nishihara spoke about the IEEE organizational governance and gave insights into the Structural and Operational Bodies of IEEE such as Membership & Geographic Activities, Technical Activities Board, Educational Activities Board, Student Activities, and IEEE USA. He gave insights into the IEEE R10 as an Organizational Unit and discussed the Benefits of being a Student Member in IEEE such as Student Branches, funding & awards opportunities, mentoring & educational support, and IEEE YP, to name a few. The volunteering opportunities, IEEE membership dues, and IEEE policies were also discussed.

Prof. Kukjin Chun spoke about the Membership Development and Retention from the IEEE MGA Perspective, Membership Distribution in the top 10 countries i.e. India, USA, China, Canada, and Bangladesh and an overall Snapshot of IEEE Region 10. He spoke on the Membership Benefits - IEEE Potentials, IEEE Xtreme, IEEE TV, IEEE Day, IEEE Collabratec, and Campus experience. He discussed what's new in 2020 such as Virtual Speakers Bureau, Live Streaming of Webinars, Extended Volunteering Opportunities, new Webinar series in technical and non-technical topics, easy hassle-free way of inviting speakers without any cost involved and many more. He also educated everybody on the Professional Awareness (SPAx) - Professional Development Topics on Finance and Planning as they were often not given the importance they should be getting. The important aspect of this Webinar was to instill a common goal and plan for successful operation of IEEE Region 10 activities, which was addressed by Mr. Deepak Mathur.

Mr. Deepak Mathur spoke about the IEEE Strategic Plan (2020-2025) and his vision and initiatives for 2021-2022. He mentioned about various resources in IEEE for an effective and improved student membership experience and boosting the membership retention. He also discussed about improving the quality and introducing new flagship conferences, high member satisfaction at Section/Chapter level, promoting Industry-Academia partnership, specifically curated YP programs and promotion of sustainable Humanitarian Technology Projects under his vision for 2021-2022. He enlightened the audience about the 2021-2022 Region 10 ExCom Structure and Officer Positions and new working plan for increased focus on YP, WIE and SAC Programs. He also stressed on student activities and the role of RSR and SSRs working together in a much enhanced collaborative direction. A Panel was organized to obtain insights from volunteers in leadership positions from various OUs across Region 10.

The Panel Discussion consisted of representatives of various Sections under IEEE Region 10. Mr. Amesh Gomas, IEEE South-East Asia; Ms. Dimple Khilwani, IEEE South Asia; Ms. Honey Shirly, IEEE Oceania and Mr. Zheming from IEEE North Asia contributed actively to the panel discussion and brought out important suggestions and discussed key aspects like enhancing membership experience, retention, volunteering opportunities, and best practices. The Webinar was attended by 163 attendees via the WebEx session and around 930 participants via the FB Live Stream. Click here to view the Webinar Recording.

IEEE Leadership Summit: Engineering in COVID-19

2nd & 3rd Webinar

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

IEEE Leadership Summit: Engineering in COVID-19 webinar was successfully concluded as a 3 series event with different highlights addressing the current global challenges and issues:

- **First webinar was held on 2nd May 2020 under the theme "*When the most important technology is teamwork*" (published on R10 Newsletter July issue, page 53)**
- **Second webinar on 20th June 2020 focused on "*Preparing and Shaping New Societies*"**
- **Third webinar on 25th July 2020 underscored the topic "*Innovations and its challenges in the new world environment*"**

This webinar series is a collaboration between IEEE Indonesia Section, IEEE Region 10 and IEEE Singapore Office, which has successfully attracted over 600 participants spread across the Asia-Pacific region. Under the leadership of the organizing committee chair, Agnes Irwanti, this webinar series was graced by prominent keynote speakers including Prof. Bambang Brodjonegoro, Minister of Research and Technology National Research and Innovation Agency Indonesia; Dr. Ir. Ismail MT from the Indonesia Ministry of Communications and Informatics and Dr. Laksana Tri Handoko, the Head of Indonesia Institute of Sciences, Indonesia Governmental Authority for Science and Research.

The organizing committee took pride in inviting distinguished speakers including IEEE MGA Vice-President, Prof Kukjin Chun; IEEE Region 10 Director, Prof. Akinori Nishihara, Indonesia Former Deputy Chief of Staff to the President, Dr. Yanuar Nugroho; CEO of AllThingsConnected, Mr. C. K. Vishwakarma; Past IEEE R10 Young Professionals Coordinator, Mr. Nivas Ravichandran; IEEE R10 Educational Activities Committee Chair, Prof. Lance Chun Che Fung; the Founder of World Toilet Organization and BOP HUB, Prof. Jack Sim and the Director of Digital

Business PT Telkom Indonesia, Mr. Muhamad Fajrin Rasyid, to share their insightful perspectives about the current world challenges and offering the participants some food for thought about the new world environment in the second and third webinar.

The webinar series had also addressed the complexity of global and social structure, accompanied by innumerable uncertainties in terms of health, security, policies, communication and information. Thus, a strong social collaboration between government agencies, corporations, industries, academia, researchers and the people are the most in need to shape the new societies.

It is an undeniable fact about the powerful capability of Artificial Intelligence (AI) in solving problems, creating and growing economy, boosting productive and improving our life quality. AI is expected to be the key driver behind the 4th industrial revolution and at the forefront of the ever-changing world we live in. Nevertheless, one will have to consider ethics as part of the essential elements in the design and application process. At the heart of this webinar, this COVID-19 pandemic has forced each one of us to reorganize, rethink and reshape our life and future; gear up to tackle the challenges and put in human assets as the most important factor to transform in to a more sustainable mode. No doubt, through the spirit of collaboration and mutual respect, we shall combat the challenges and emerge stronger.

IEEE Sections Congress Top 3 Recommendations

In an effort to continue forward with the recommendation process for this year, the 2020 Recommendation Process was held virtually. The event consisted of two sessions, held on 1st and 15th September 2020. The event focused on the recommendation process and voting. It also included additional content related sessions and activities. Recordings and materials from the two sessions are available in the IEEE Center for Leadership Excellence (CLE): https://ieee-elearning.org/CLE/course/view.php?id=442.

RECOMMENDATION 4
Create a 3-5 multi-year IEEE membership fee structure with discounts

This structure would benefit IEEE by ensuring that the members stay with IEEE for a longer period. The structure would also greatly benefit members by providing options for more cost-effective membership. Other professional societies have been exercising multi-year membership fee structures which have proven to be highly effective and successful.

RECOMMENDATION 10
Provide continuing education to provide true value added for working professionals

Present short courses on emerging technical topics including a documented certification, including professional development hours. To increase member retention, offer 3 courses per year to each member. Additionally develop online presentations similar to TED talks on engineering topics.

RECOMMENDATION 8
Provide resources to Sections to serve industry professionals and engage with local industries

To better serve industry professionals, IEEE to provide industry seminars including technical presentations, opportunity to earn professional development hours and networking opportunities. IEEE also to provide structural resources such as a Customer Relationship Management platform to track local industry contacts and training to engage with local industries.

TECHNICAL COLUMN

5. TECHNICAL COLUMN

Semiconductor Wafer Surface: Automatic Defect Classification with Deep CNN

IEEE Region 10 Postgraduate Research Paper Contest 1st Prize Winner

Charissa Phua, MIEEE and Lau Bee Theng, SMIEEE, Swinburne University of Technology Sarawak

To avoid premature failures in the field, it is critical for wafers to be particle-free so that the final chip products do not incorporate any defects. However, at times, defects are generated during the lengthy and complex Metal-Oxide-Semiconductor (MOS) technology fabrication process.
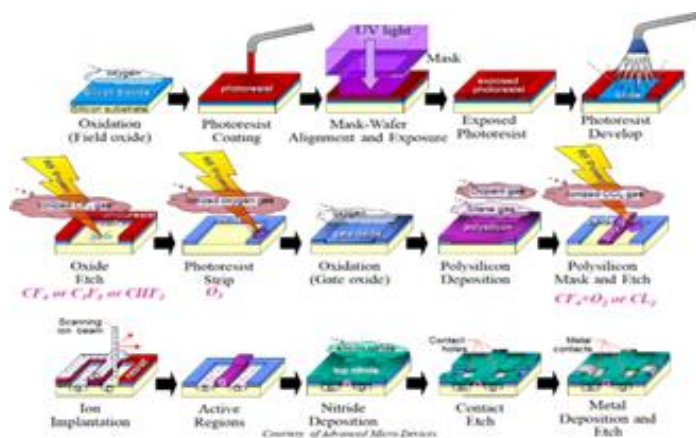
Figure 1. Main Metal-Oxide-Semiconductor (MOS) technology fabrication process

The rise of artificial intelligence (AI) technologies and the increasing demand for defect-free wafers encourage semiconductor manufacturers to pursue automatic defect classification (ADC). The current ADC system classifies wafer surface defects using optical and Scanning Electron Microscope (SEM) images. However, manual classification is still a major part of the process and it is not only labor-intensive and slow but also highly prone to human errors. In this research, deep-learning based ADC system is explored, which automatically classifies wafer surface defects, particularly from the metal layers. This approach brings consistency and speed, allowing for better determination of wafer life cycle as well as defect root cause analysis in yield management.
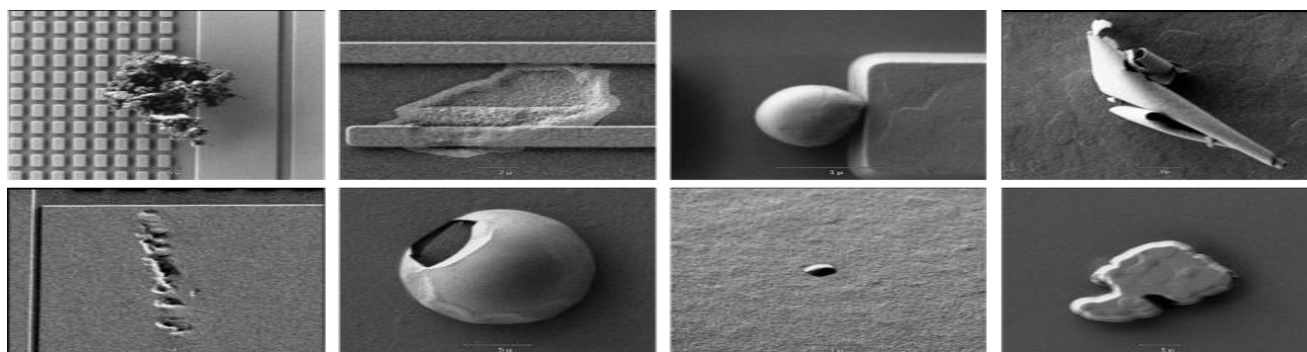

Figure 2. Example SEM defect images

The proposed method adopts a deep convolutional neural network (CNN) architecture for defect classification using SEM images which can sub-classify defects into respective sizing groups whereby defect size serves as an important indicator of the origin of machine failure — the first in the field. This solution found that the proposed ADC method achieves industrially pragmatic defect classification performance based on experimentation with real semiconductor dataset. It is also apparent that the transfer learning for increasing the model's training efficiency and training time reduction is worthy for an investigation.

All the 2020 Region 10 Postgraduate Research Paper Contest winning papers will be invited for presentation at IEEE TENCON 2020 and the papers will be included in the conference proceedings.

An Effective Recommendation Algorithm for Paper Submission Recommendation Systems

IEEE Region 10 Postgraduate Research Paper Contest 2nd Prize Winner

Son T. Huynh, Vietnam National University

Nowadays, there are a huge number of scientific works reviewed and published in different research fields, especially in computer science, biology, physics, and applied sciences. There are an increasing number of new journals being launched and new conferences happening every year, giving researchers multiple choices to submit their research work based on the submission's quality and novelty. This creates a dilemma for researchers in selecting the most suitable journal or conference venue for paper submission. Well-known publishers (e.g., IEEE, Springer, and Elsevier) created a webpage on their portals to support researchers in quickly checking an appropriate journal based on the title, the abstract, and the list of keywords of their papers.

Recently, recommendation systems have become an indispensable part of many industries, including e-commerce (Amazon, eBay, Walmart, or Lazada), video/audio entertainment (YouTube, Spotify), and social networking sites (Facebook, Twitter, LinkedIn). There are a lot of studies related to recommendation systems in terms of both algorithms and applications. According to our literature survey, there are a few recommendation systems for article submission.
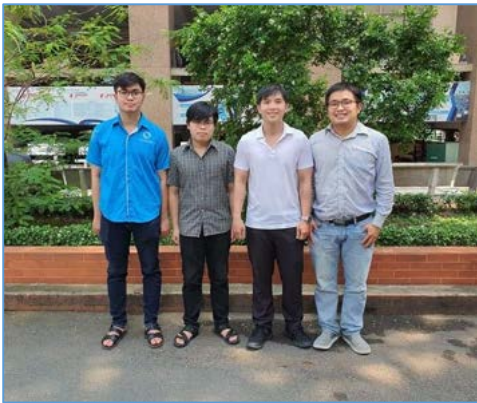
Figure 1. Three students with their supervisor (from the left to the right): Son Huynh, Phong Huynh, Dac Nguyen, and Dr. Binh Nguyen. All students are working at AISIA Research Lab and studying at John Von Neumann Institute and University of Science, Vietnam National University in Ho Chi Minh City, Vietnam.

Our paper aims to investigate an efficient algorithm for paper submission recommendation systems that can help scientists (especially young researchers) easily find an appropriate journal or conference for submitting their research work. Such a system can take the title, abstract, and keywords of the submission as the input data, and then provide top conferences/journals related to the inputs. To construct a suitable algorithm, we apply deep learning methods to improve the recommendations' effectiveness of the system. By concatenating two different types of features using one-dimension convolutional neural networks (CNN) and pre-trained embedding techniques (Glove or FastText), the proposed model can achieve much higher performance in terms of both computational speed and recall compared to other state-of-the-art methods. We measured the performance of different approaches using the dataset proposed by Wang et al., 2018, including articles and proceedings paper in computer vision. These experimental results are promising, and we are motivated to continue enhancing the recommendation models' performance for paper submission recommendation systems. In the future, we want to build a real application for this system that can serve different researchers in various research areas to find the most proper journals or conference venues efficiently.

References

[1] D. Wang, Y. Liang, D. Xu, X. Feng, and R. Guan, "A content-based recommender system for computer science publications," Knowledge-Based Systems, vol. 157, pp. 1 – 9, 2018.

All the 2020 Region 10 Postgraduate Research Paper Contest winning papers will be invited for presentation at IEEE TENCON 2020 and the papers will be included in the conference proceedings.

A Conformal Antenna with Broadside and Monopole-like Pattern Reconfigurability on Polymer-Conductive Textile Composite

Bahare Mohamadzade, School of Engineering, Macquarie University, Sydney, Australia

Reconfigurable antennas have attracted researchers' interests due to their multifunctional capabilities in minimized volume requirements. Growing demand for flexible and conformal structures in modern communication systems opened a new field of developing flexible reconfigurable antennas. Flexible and conformal antennas are made of non-conventional materials which create challenges for integration of them with rigid elements such as switches, resistors, inductors, capacitors, and wires. It is a notable challenge to design a flexible reconfigurable antenna in which the mechanical stability and RF performance are not been affected by sustained bending/folding operations.

A flexible antenna with reconfigurability capability of the radiation pattern between two broadside and monopole-like patterns at 5.2 GHz for applications in WLAN and short-range wireless sensor networks is proposed in this paper. The antenna is a planner circular patch and its reconfigurability is achieved by using electrical switches in the middle of four rectangular slots and perturbing the symmetry of the current distribution of the circular patch. The flexible PDMS and conductive fabric (nickel-copper coated ripstop from Less EMF Inc) are used as its substrate and conductor, respectively. All the antenna parts including its radiator, ground plane, and DC control parts are encapsulated by PDMS. Therefore, the structure is robust against deformation and any harsh environmental factors such as high/low temperature and humidity. The RF performance of the antenna was conducted under flat and bending positions. The measured results show the antenna is working well without any problem under radius bending of 30 mm.
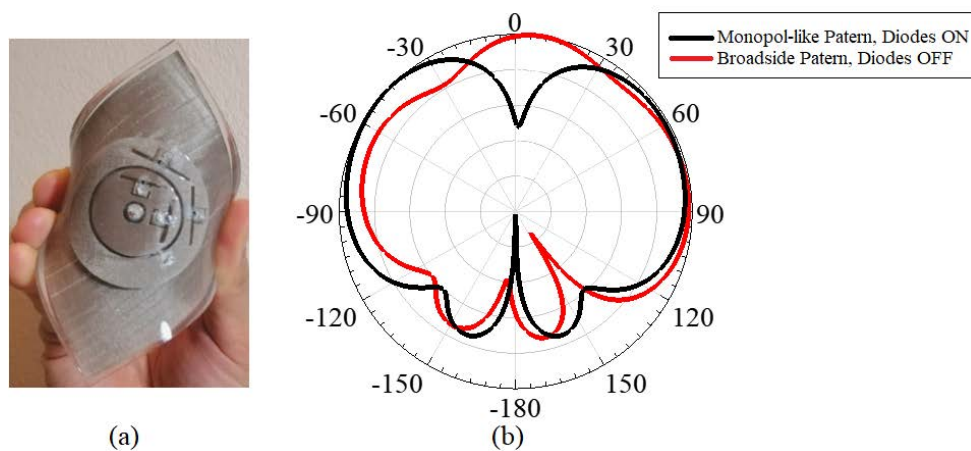
(a) Antenna's prototype, (b) Normalized radiation patterns in two states

All the 2020 Region 10 Postgraduate Research Paper Contest winning papers will be invited for presentation at IEEE TENCON 2020 and the papers will be included in the conference proceedings.

OTHER ARTICLES

6. OTHER ARTICLES

2020 IEEE Medal & Recognition Recipients Honored Online

Chenming Hu Receives IEEE Medal of Honor

IEEE Life Fellow Chenming Hu will receive this year's IEEE Medal of Honor "for a distinguished career of developing and putting into practice semiconductor models, particularly 3D device structures, that have helped keep Moore's Law going over many decades." Hu has been called the Father of the 3D Transistor due to his development of the Fin Field Effect Transistor in 1999. Intel, the first company to implement FinFETs in its products, called the invention the most radical shift in semiconductor technology in more than 50 years.

Hu is the TSMC Distinguished Professor Emeritus with the Department of Electrical Engineering and Computer Sciences at the University of California, Berkeley, CA, USA.

The pinnacle of recognition for IEEE, the Medal of Honor was first awarded in 1917. The award is sponsored by the IEEE Foundation.

This year, in light of the global health emergency and pervasive travel restrictions, IEEE made the difficult decision not to hold the in-person IEEE Honors Ceremony. Instead, Hu and the other 22 diverse 2020 IEEE Medal and Recognition recipients will be honored in a series of online promotions.

—Visit the Awards' Facebook and Twitter social media platforms to see a continuing series of posts highlighting each 2020 recipient.

—A great series of videos featuring all of 2020 Medal and Recognition recipients has been created on the Awards Channel on IEEE.TV. Each video offers a unique look at this year's award recipients, including their tremendous contributions that have made a lasting impact on technology, society, and the engineering profession.

—To learn more about the Medal of Honor and all other awards in IEEE's Awards Program portfolio, lip through the digital 2020 IEEE Awards Booklet, where you'll find each recipient's photo and bio.

—The Awards Program is also partnering with the IEEE History Center to promote the 2020 recipients on their Engineering and Technology Wiki. Read Q&As with these recipients to find out what motivates them, what got them started in their careers—as well as lots of other interesting factoids about them, including their favorite foods.

Plans are being made to recognize the 2020 recipients at the 2021 IEEE Vision, Innovation, and Challenges Summit & Honors Ceremony.

IEEE Consultation for National STIP 2020 of Government of India

Prof. Prashant R. Nair, Editor for IEEE R10 Newsletter
Prof. Navaneethakrishnan Ramanathan, Chair for IEEE SSIT Madras Chapter & YESIST12 Maker Fair
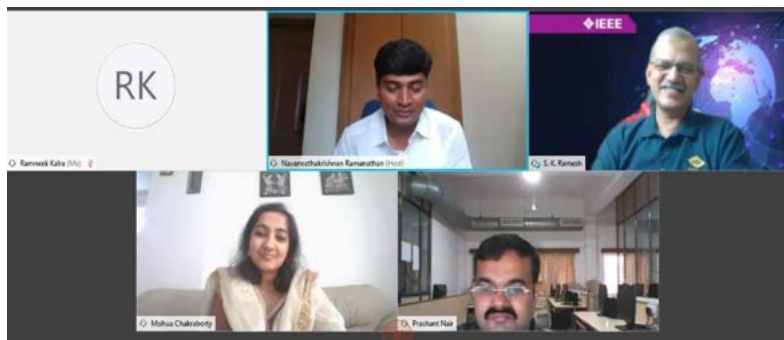
IEEE SSIT Madras Chapter & IEEE YESIST12 has partnered with Science Policy Forum and STIP 2020 Secretariat under the Ministry of Science & Technology, Government of India for a consultation meeting towards formulating National Science, Technology & Innovation Policy (STIP) 2020 on the theme "Industry engagement to engineer the future: Role of professional associations" on 12th September 2020. This represents an engagement and participation of IEEE in the public policy formulation framework of the Indian government.

The keynote address was delivered by Prof. S. K. Ramesh, Ph.D., Fellow IEEE; ABET Board of Directors; 2016-2017 IEEE Vice-President Educational Activities and Professor of Electrical and Computer Engineering & Director AIMS2 Program, California State University, Northridge, USA. Prof. S.K. Ramesh is also a 2021 IEEE President-elect candidate.

In terms of policy interventions, he sought linkage of Indian professional bodies to accreditation agencies in India. Having held several volunteering positions in both IEEE and ABET accreditation agency in USA, he said that such linkages have dramatically improved the quality of education and employability of graduates. This linkage through policy initiatives would benefit India based on his IEEE experiences as a volunteer and academic experience as a professor in a premier university in USA. He also shared best practices at his university to deepen industry-academia engagement such as techfest, project showcase, and Industry Liaison Committee (ILC).

Dr. Mohua Chakraborty Choudhry, DST STI Policy fellow from STIP 2020 secretariat of the Government of India, provided an overview of the Indian National STIP 2020 policy formulation process and highlighted various ways and means for professionals from universities, industry and civil society to contribute to this data-driven, participatory and inclusive policy formulation process for India. She highlighted various activities like policy compass, open letter and ideathon for Indian and Indian diaspora IEEE volunteers and OUs to contribute to.

Dr. Ramalatha Marimuthu, Chair for IEEE YESIST12 and member of the Board of Governors of IEEE Computer Society, warmly welcomed the consultation meeting and provided an overview of YESIST12 activities. Prominent IEEE volunteers who participated in the deliberations of the consultation included Mr. H.R. Mohan, former Vice-chair of IEEE Madras Section and Dr. T.V. Gopal, Professor of Computer Science & Engineering, Anna University, Chennai.

The event which saw pan-India participation of over 100 participants was moderated by Prof. Prashant R. Nair, Editor for IEEE R10 Newsletter & Associate Professor, Amrita Vishwa Vidyapeetham, Coimbatore, India and Prof. Navaneethakrishnan Ramanathan, Chair for IEEE SSIT Madras Section & YESIST12 Maker Fair & Assistant Professor, Kumaraguru College of Technology, Coimbatore, India. Dr. J.N. Swaminathan, QISCET, Andhra Pradesh; Mr. Ramneek Kalra, IEEE Impact creator; Ms. Kamya Johar, student member and Ms. Bismannjit Kaur, mentor for WIE AG, all from IEEE Delhi Section coordinated the event.

IEEE GUCON 2020

Rabindra Nath Shaw, Conference Chair for IEEE GUCON 2020

The 3rd IEEE International Conference on Computing, Power & Communication Technologies (GUCON 2020) was co-organized by Galgotias University and IEEE Industrial Applications Society USA from 2nd to 4th October 2020. GUCON 2020 has emerged as a premier conference to bring researchers, scientists, and industry professionals to discuss novel ideas in the field of computing, power, and communication. This year, the conference was joined by researchers, students, and industry professionals from five countries. Due to the Covid-19 pandemic, the conference was organized online.

In the inaugural session of GUCON 2020, opening remarks were given by Mr. Dhruv Galgotia, CEO for Galgotias University. The welcoming address was delivered by Prof. Preeti Bajaj, Vice-Chancellor for Galgotias University, and the conference highlights were given by Prof. Saad Mekhilef, Technical Chair for GUCON 2020. In the same session, the participants had the opportunity to listen to Prof. Ashutosh Sharma, Secretary at the Ministry of Science & Technology, Government of India, as well as other speakers for the conference such as Manfred "Fred" J. Schindler, Prof. Frede Blaabjerg, Dr. Tamás Ruzsányi, Dr. Dejan Milojicic, Prof. Bhim Singh, and Prof. Paul M Cunningham.

The conference commenced with plenary talk on "IEEE Senior Membership – Benefits and Application Procedures" by Mr. Amarnath Raja, IEEE MGA Committee Chair A&A. This was followed by concurrent paper presentation panels FD1 to FD10 in 2 technical sessions wherein 51 papers were presented with participation of 70 authors. The first day proceedings concluded with a keynote speech on "Taming Heterogeneity: Evolution of the Memristor-based Deep Learning Accelerator and its Software Stack" by Dr. Dejan Milojicic, Distinguished Technologist, Hewlett Packard Labs USA.

The second day started with 2 technical sessions in which 60 papers were presented. The second day also saw 4 keynote addresses which were all well-attended. These were:

- "Frontiers in lighting systems technology: Toward the human-centric intelligent lighting era" by Prof. Georges ZISSIS, President, IEEE Industry Applications Society USA
- "Power electronics - the key technology for grid integration" by Prof. Frede Blaabjerg (FIEEE), Professor, The Faculty of Engineering and Science at Aalborg University, Denmark
- "Innovative Regeneration without Quenching and its Applications" by Manfred "Fred" J. Schindler, Independent (FIEEE), Consultant & Chief Technology Officer Anlotek Ltd. and IEEE Director-Elect for Division IV.
- "Neural Prostheses for Amputees and Patients with Spinal Cord Injuries" by Prof. V John Mathews, (FIEEE) Professor, School of Electrical Engineering and Computer Science, Oregon State University USA.

The third day started with 2 technical sessions in which 50 papers were presented. The proceedings of the third day also saw two keynote speeches which were well-attended. These were:

- "Dynamic Estimation and Control of Power System" by Prof. Bikash Pal, Professor of Power Systems, Imperial College London, UK
- "The Fourth Industrial Revolution and Sustainable Development - The Role of Technology and Innovation" by Prof. Paul M Cunningham, Executive Director, IST-Africa Institute.

GUCON 2020 concluded with a closing session which was addressed by Prof. Preeti Bajaj, Vice-Chancellor for Galgotias University. The conference report was given by Dr. Nishad Mendis, Technical Chair for IEEE GUCON 2020.

The following professionals also gave their feedback and remarks on GUCON during this session:

- Prof. Wei-Jen Lee (FIEEE) Professor and Director, Energy Systems Research Center, University of Texas, Arlington, USA,
- Prof. Paul M Cunningham, Executive Director, IST-Africa Institute and IEEE Division VI Director Elect,
- Prof. Vincenzo Piuri, (FIEEE), Professor, University of Milan, Italy,
- Prof. Robert J.Howlett, KES International Research University of Chichester Business Incubation Centre, Bognor Regis, UK,
- Prof. Bhim Singh (FIEEE), Professor, Indian Institute of Technology Delhi, New Delhi, India,
- Prof. Valentina E. Balas, Professor of Automation and Applied Informatics, Aurel Vlaicu University of Arad, Romania.

Vote of thanks was proposed by the Conference Secretary. The event also saw the announcement of GUCON 2021 approved by IEEE IAS as a 100% financial-sponsored conference by Prof. Wei-Jen, the 2021 IEEE Industry Applications Society President.

International COVID19 Congress (ICC-2020)

Raihan ur Rashid, Secretary for IEEE Bangladesh Section

To exchange diverse view points and sharing of ideas to fight against the COVID19 pandemic, IEEE Bangladesh Section organized a full virtual event, the International COVID19 Congress (ICC-2020) on 9th and 10th August 2020. Dr. Celia Shahnaz, Chair for IEEE Bangladesh Section was the General Chair of the Congress and Dr. Shaikh A. Fattah, Nomination and Appointment Chair for IEEE Bangladesh Section was the Technical Chair of the Congress. Raihan Ur Rashid, Secretary of IEEE Bangladesh Section was the Congress Secretary while the Virtual Congress Management Chairs were S.M. Saiduzzaman, S.K. Azmaeen Bin Amir and A.N.M. Nasimunnabi.

The inaugural ceremony of ICC2020 was held on 9th August 2020 at 06:00 AM (GMT +6). The Chief Guest of the ceremony was IEEE President, Professor Toshio Fukuda, LFIEEE. Special Guests were IEEE R10 Director, Prof. Akinori Nishihara, LFIEEE and IEEE R10 Vice-Chair Technical Activities, Prof. Sri Niwas Singh, FIEEE. In his inaugural speech, Professor Toshio Fukuda complimented Dr. Celia and Dr. Fattah for organizing the Congress to share experiences and ideas of this global pandemic. The Recording of the Inauguration Ceremony can be found at the following link: https://www.youtube.com/watch?v=pXdhqwz0jUc.

The registered participants of this congress included 440 from 15 countries. In this congress, IEEE Bangladesh Section organized five different sessions in the format of Competition/Sharing/Discussion. These included Idea Sharing Competition, Project Competition, Debate Competition, Research Progress Sharing, and Great Initiative/Policy Making Sharing. In these competitions, 329 participants from 136 teams across 7 countries registered in the preliminary round and amongst them 98 teams were selected and registered for the final round. There were 12 invited speakers in 5 sessions:

- Juan Carlos Montero Q. Vice President, Membership & Image, IEEE PES
- LI-Yang, Division Director, State Grid Corporation of China, China
- Dominique Duncan, University of Southern California, USA
- B.S. Chowdhry, Member BOG Higher Education Commission & Professor Emeritus, MUET Pakistan
- Kuncoro Wastuwibowo, Portfolio & Synergy Project Leader at Telkom Indonesia, Indonesia
- Ruwan Ranaweera, University of Peradeniya, Peradeniya, Sri Lanka
- San Murugesan, Director, BRITE Professional Services, Sydney, Australia
- Thiago Ribeiro de Alencar, IEEE PES YP MD Coordinator (IEEE Region 1 – 10), IEEE PES Brazil
- Bee Theng Lau, Associate Professor, Swinburne University, Sarawak, Malaysia
- Pabitra Mitra, Professor, Indian Institute of Technology, Kharagpur, India
- Saif Islam, Professor, University of California – Davis, USA
- Goutam Chattopadhyay, Senior Research Scientist, California Institute of Technology, USA

The Closing Session and Award Ceremony of ICC 2020 were held on 10th August 2020 at 9:30 PM. The chief of guest of the Ceremony was Honorable Mayor of Dhaka North City Corporation, Mr. Atiqul Islam. Detailed Article Link - https://docs.google.com/document/d/174NNzx3P1GKQjQBefJ6pVuymcDAS2r1SBHXIAyLEGAs/edit#

Virtual Conference Organizing Panel (VCOP 2020)

Raihan ur Rashid, Secretary for IEEE Bangladesh Section

To explore the challenges of organizing a Full Virtual Technical Conference, with the experience gained from successfully organizing IEEE TENSYMP 2020, IEEE Region 10's first fully virtual flagship conference, IEEE Bangladesh Section organized Virtual Conference Organizers' Panel (VCOP 2020) on 1st and 2nd July 2020. Virtual Conference Organizers' Panel (VCOP 2020) was the first virtual online panel in IEEE Region 10 wherein all concerned stakeholders shared the expectations, challenges and possible solutions in a complete Virtual Technical Conference with respect to traditional face-to-face technical conferences.

The first day of the VCOP started at 7:00 PM (GMT +6) with a brief introductory speech from Prof. Dr. Celia Shahnaz, General Chair for IEEE TENSYMP 2020. In her speech, she shared the reason behind organizing this VCOP and her feelings on successfully organizing TENSYMP 2020. Then, Dr. Paul Cunningham, Chair of IST Africa shared his experience of organizing a virtual conference along with some of the important planning and decisions he had to make with regard to organizing a virtual conference for which he had no previous experience. Dr. Miriam Cunningham also shared some of her experience on organizing IST Africa. First day's other two keynote speakers were Dr. S N Singh, Chair of IEEE India Council and Dr. Muhammad Mustafa Hossain, Professor of UC Berkeley, USA. Both of them shared some insights of organizing a conference in virtual platform and the differences in organizing a virtual and face-to-face conference. After that, Professor Shaikh A Fattah, Technical Program Chair for IEEE TENSYMP 2020 shared some technical aspects of a virtual conference and ignited the panel discussion session for the day.

The second day of VCOP 2020 started with Prof. Celia Shahnaz recapping the discussions of the previous day. Subsequently, one of the keynote speakers, Dr. Bozenna Pasik-Duncan presented her perspective as a virtual conference organizer and its differences as compared to face-to face conference. For the second day as well, Dr. Shaikh A Fattah ignited a panel session with a focus on organizing aspects of a virtual conference. As part of this discussion, Raihan Ur Rashid and S M Saiduzzaman, two of the Secretaries and S K Azmaeen Bin Amir and A N M Nasimunnabi, both virtual conference management chairs of IEEE TENSYMP 2020 shared some of the operational insights of organizing IEEE TENSYMP 2020. After the panel discussion, the second keynote speaker of the day, Dr. Ramakrishna Kappagantu, IEEE R10 Director (2015-2016) shared his technical perspective on virtual conference organizing and how this virtual conference may change the paradigm of future conference organizing. VCOP 2020 ended with a short closing ceremony wherein Dr. Lawrence Wong, Member of IEEE Region 10 Advisory Committee delivered a closing keynote and Dr. Celia Shahnaz concluded the event with her closing remarks. Detailed Article is available at the link given below:

https://docs.google.com/document/d/1dwzxYjD4csiWLiS7i56PbVPPxnDfhLL2SdttksHsOcI/edit

SECTION AND SUBSECTION ACTIVITIES

7. SECTION AND SUBSECTION ACTIVITIES

IEEE Bangladesh Section

International Newsletter Editors' Meetup

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

Emphasizing the importance of newsletters and editorial activities, IEEE Bangladesh Section organized the 1st International Newsletter Editors' Meetup on 5th September 2020, 6:00 PM- 9:30 PM Bangladesh Time. Dr. Celia Shahnaz, Chair for IEEE Bangladesh Section presided and moderated the whole session. She greeted the guests, participants, and speakers and introduced the theme of the event. Speakers of the event were:

1. Dr S N Singh, Chair, FIEEE, IEEE India Council
2. Dr Alan L. Harvey, LSMIEEE, Editor, Uplink, IEEE Victoria Section
3. Dr Mohammad Faizal Ahmad Fauzi, SMIEEE, Chair, Newsletter Committee, IEEE Region 10
4. Dr V K Damodaran, LSMIEEE, Past Newsletter Editor, IEEE India Council
5. Dr Sushmita Mitra, FIEEE, Chair-Elect, IEEE Kolkata Section
6. Dr V R Singh, LFIEEE, Associate Editor, IEEE TIM & Past Associate Editor, IEEE Sensors Journal
7. Dr D. P. Kothari, FIEEE, Honorary Adjunct Professor, VNIT, Nagpur
8. Dr Dipankar Pal, SMIEEE, Former Excom, IEEE Bombay Section
9. Dr Roshan Joy Martis, SMIEEE, Chair, Senior Member Elevation, IEEE Mangalore Subsection
10. Dr Niranjana S, SMIEEE, Past Editor, ENGMEDNEWS, BEMSI
11. Dr Deepak Waikar, SMIEEE, Vice Chair, IEEE Education Society Singapore Chapter
12. Dr Shaikh A. Fattah, SMIEEE, Editor, IEEE Power & Energy Society e-News.

Almost 60 participants joined the session. Majority participants were from India, Bangladesh, Malaysia, Australia & Pakistan. Before the ending of the program, a short interactive session was moderated by Dr. Celia Shahnaz where participants shared their own experience and the learnings they got from the program. They thanked Dr. Celia and the team for such a unique and innovative event. Finally, SM Saiduzzaman, Newsletter Editor for IEEE Bangladesh Section concluded the event by a note of thanks to speakers and participants.

IEEE Delhi Section

Bridging the Gap: Delhi Section

Siddhant Banyal, Treasurer for IEEE Young Professionals Delhi

In the words of philosopher Osho, the word education means "drawing something out that is within, bringing a person's center to the surface, to the circumference, bringing their latent, unmanifest, dormant being into manifestation, making it active, dynamic". Echoing the sentiment above, IEEE Delhi Section has been carrying the legacy of this vibrant Region 10 during these testing times of global

pandemic and is fulfilling our collective vision through their diverse and enriching events. The activities conducted were virtual in nature, in cognizance of various pandemic related guidelines under the able leadership of the Section Executive Committee and Section Student Network guided by Prof. Prerna Gaur, Chair for IEEE Delhi Section.

On the evening of 6th June 2020, IEEE Delhi Section in partnership with IEEE India Council SCT hosted a webinar on "Build for India: A step towards Atmanirbhar Bharat" by Mr. Saurabh Jain, Paytm Vice President. Mr. Jain, as the head of the "Paytm – Build in India" guided the young minds about the field of entrepreneurship and building a company in India including ad-hoc strategies to implement in a startup environment. The Webinar was a blazing success with shattering records of over 3000 participants from all across the region. In the spirit of expanding and harnessing untapped potentials of volunteers from new regions, on the 7th and 8th June 2020, IEEE Chandigarh Subsection along with the IEEE Delhi Section organized the first ever Chandigarh Subsection Congress with over 1700 delegates. The virtual conference was a success and encompassed events such as, but not limited to, an expert session on "TensorFlow in Machine Learning" by Mr. Jason Mayes, Senior Developer Advocate for TensorFlow.js at Google, and WiECritique: A Policy Case Study, judged by Prof. Sugandha Sharma, Chandigarh University, and Mr. Saurabh Bhadwar, Senior Software Engineer at LinkedIn.

Further, on 2nd August 2020, IEEE Delhi Section Young Professionals AG launched their flagship STEP initiative through a panel discussion on "Bridging the Gap" between students and young professionals by bringing managerial, industrial and academic perspective through three prodigious speakers. The speakers were Mr. Gitansh Anand from Xiaomi, Mr. Sirish Orunganti from Texas Instruments and Dr. Abhishek Appaji from BMSCE. The event witnessed participation of over 150 attendees that included both student and professional members.

The Section is also pleased to inform the readers with the developments from the 17th IEEE India Council Conference - INDICON 2020. This year's rendition will be organized collaboratively with India Council and Delhi Section at Netaji Subhas University of Technology, New Delhi. The conference is scheduled from 11th to 13th December 2020 with the theme of "Technology Intervention to Build Future-Ready Society". Owing to the extenuating circumstances, the Organizing Committee has decided to host the conference virtually, a decision in coherence with other international IEEE conferences due to COVID-19. Since the release of the Call for Papers, the conference has introduced several special tracks including the track titled "WIE Contributions in Next Generation Computing" with the aim to promote diversity in the STEM field and promote innovation in emerging fields of technology.

IEEE Karachi Section

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

Inauguration Ceremony of IEEE Quetta Subsection & 38th Anniversary Celebration of IEEE Karachi Section

The inauguration ceremony of IEEE Quetta Subsection was organized with great enthusiasm and splendor during the auspicious occasion of the 38th Anniversary of IEEE Karachi Section on 14th July 2020 from 3:00-5:00pm. During the ceremony, video messages by Prof. Toshio Fukuda (IEEE President & CEO), Prof. Akinori Nishihara (IEEE Region 10 Director) and Deepak Mathur (IEEE Region 10 Director-Elect) were played. Several keynote speeches were delivered by Hasan Syed (Founder & CEO of Bir Ventures), Farrukh Attique (Additional Secretary and Chief Minister Delivery Unit, Government of Balochistan), Dr. Bhawani Shankar Chowdhry (Chair for IEEE Karachi Section), Muhammad Bilal (Lecturer at FICT BUITEMS,), Dr. Bakhtiar Kasi (Dean, BUITEMS), and Dr. Shahab Siddiqui (MD Chair for IEEE Karachi Section). A total of 66 participants attended the event.

IEEE Karachi Section VoLT & SPAA 2020

IEEE Karachi Section Student Activities Committee organized the Volunteer Leadership Training (VoLT) along with Student-Professional Awareness Activities (SPAA) on 25th - 26th July 2020. The main aim of this event was to bring together IEEE members and accelerate their knowledge of the IEEE organization, products, services and resources. Sessions on topics such as 'Self-discovery and Talent Management' by Prof. Dr. Bhawani Shankar Chowdhry, 'Building Effective Relationships' by Hamza Ihtasham, 'IEEE Code of Ethics - Leading from Ideation to Innovation' by Prof. Dr. Tariq Rahim Soomro and 'What is IEEE and How to Maximize your Experience with IEEE' by Ms. Fabeha Raheel were arranged on the first day.

SPAA was organized to provide awareness regarding many aspects of professional life related to different professional work environments. Sessions on 'Visionary Strategies and Empowering Decision-making' by Adnan Rafique, 'COVID-19 Opportunities as a Technopreneur - Experiential Learning' by Engr. Ghulam e Mustafa Abro, and 'VTools Training and Art of Effective Communication' by Engr. Parkash Lohana were held on the second day. The session for both days were ended by SSR Muhammad Rafay Shaikh with a closing and thank you notes to all participants and guest speakers. A total of 88 participants attended the events.

Webinar: "Empowering the Fourth Industrial Revolution with Future Internet Communication"

The Webinar, delivered on 13th August 2020 over Google Meet, was organized by Prof. Dr. Syed Hyder Abbas Musavi, Chair for IEEE ComSoc Karachi Chapter, in collaboration with MUET SZAB, Khairpur. Assoc. Prof. Dr. Kashif Nisar from IEEE Sabah Subsection, Malaysia was invited as the Guest Speaker to

give an overview regarding the fourth industrial revolution with future Internet communication. During the event, Dr. Kashif explained how Information Centric Networking (ICN) is a new paradigm for future Internet network communications and highlighted how ICN architectures can address the challenges associated with increasing demands for highly scalable content distribution, from the growths of mobile devices, to the wide deployment of IoT, as well as for security of global Internet. A total of 80 participants attended the Webinar.

IEEE Madras Section

Kumarappan N, Chair for IEEE Madras Section

Webinar on Interdisciplinary Projects in Assistive Technology Engineering

IEEE Madras Section organized a Webinar on "Interdisciplinary Projects in Assistive Technology Engineering" on 19th May 2020 from 8.00pm to 9.00pm. The speaker was Dr. S.K. Ramesh, Professor of Electrical and Computer Engineering, California State University, Northridge, USA. Dr. Venkatesh Kumar, Chair of Professional Activities, hosted the event while Dr. N Kumarappan, Chair for IEEE Madras Section, introduced the guest. The webinar focused on interdisciplinary projects in assistive technology engineering and improving the functional capabilities. The speaker also explained about IEEE strategic plan for 2020-2025, IEEE educational programs and resources, TRY Engineering, and EPICS in IEEE. Around 250 participants participated in the Webinar. Dr. N Kumarappan delivered the vote of thanks.

Webinar on AI/ML Advancements and Potential Applications

IEEE Madras Section organized a Webinar on "AI/ML Advancements and Potential Applications" on 25th May 2020 from 5.00pm to 6.00pm. The speaker was Mr. Mukund Kannan, Head of Artificial Intelligence at Tech Mahindra, Bangalore. Dr. Venkatesh Kumar hosted the event while Dr. N Kumarappan, Chair for IEEE Madras Section introduced the guest. The webinar focused on ML and its applications including AI-based short term load forecasting solar panel maintenance and wind power generation prediction. Around 160 participants participated in the Webinar. Dr. N Kumarappan delivered the vote of thanks.

Webinar on Post Covid19 – future of Industries

IEEE Madras Section organized a Webinar on "Post Covid19 – Future of Industries" on 14th June 2020 from 9.30am to 10.30pm. The speaker was Ezhilmaran Arumugam, Director & CEO for Axis Global Automation & AGIIT India & UAE. Dr. Venkatesh Kumar, Chair of Professional Activities hosted the event while Dr. N Kumarappan, Chair for IEEE Madras Section introduced the guest. The speaker elaborated about consumer insight on the factory of the future, robotics – automation and augmented reality scenarios. 52 participants attended the event. Dr. N Kumarappan delivered the vote of thanks.

Webinar on IEEE Publications – Enhancing one's Career

IEEE Professionals Activities wing of IEEE Madras Section collaborated with IEEE Client Services Team at the IEEE India Operations Center to organize a session on "IEEE Publications - Enhancing One's Career" on 25th June 2020. Around 75 members attended the session. Dr. M Venkatesh Kumar coordinated the session. Dr. Pattanashetti, Senior IEEE Client Services Manager gave insights into the various features and functionalities in the IEEE Xplore Digital Library. The session also highlighted on how the Digital Library can be leveraged to publish papers and to be recognized globally. Dr. N Kumarappan, Chair for IEEE Madras Section provided the concluding remarks.

Webinar on Software Development Trends – History and Future Ahead

IEEE Madras Section organized a Webinar on "Software Development – History and Future Ahead" on 27th June 2020. Dr. N Kumarappan, Chair for IEEE Madras Section introduced the guest. Mr Manikandan Kannappan, Lead Program-Project Manager, Bank of New York Mellon Technologies elaborated on the topics of Software Engineering. The webinar was attended and benefitted by around 51 members from the Section. Mr.M Venkatesh Kumar, Chair for Professional Activities coordinated the event.

IEEE Malaysia Section

IEEE Malaysia Section Initiatives during Covid-19 Pandemic

Mohd Hafiz Ismail, Educational Activities Chair for IEEE Malaysia Section

Due to the Covid-19 pandemic, the Malaysia Government began the implementation of several different phases of the Movement Control Order (MCO); Phase I MCO (18th March to 13th April 2020), Phase II MCO (14th to 28th April 2020), Phase III MCO (29th April to 12th May 2020), Conditional MCO (13th May to 9th June 2020) and Recovery MCO (10th June - 31st December 2020).

Even though we lose the opportunity for physical networking, Covid-19 did not stop us, the IEEE volunteers in Malaysia in conducting many activities for our members. On 11th April 2020, Educational Activities Subcommittee led by Dr. Mohd Hafiz Ismail conducted the Virtual Chapter Chairs Meeting, followed by the launching of the Virtual Leadership Camp, comprising of on-demand videos on best practices for IEEE volunteers. MySIGHT Rural Technologies, led by Humanitarian Activities Chair, Dr. Robiah Ahmad, has designed and distributed 26 foot-pressed hand sanitizer dispensers for the front-liners at various clinics, schools and mosques starting from 30th April 2020. Besides that, Dr Robiah was also invited by Erbil Polytechnic University, Iraq to deliver a talk on IEEE HAC Funding on 11th June 2020. EDS Malaysia Chapter volunteers, Dr. Maizatul Zolkapli and Dr. Ahmad Sabirin Zoolfakar organized a donation drive in collaboration with CJM Resources to prepare food packs for Hospital Serdang. Prof. Norhayati Soin was invited as panel for a Webinar entitled "Research and Innovation Projects in Response to COVID-19" organized by KPJ Healthcare University College. Dr Nafarizal Nayan and his team developed an in-house hand and surface sanitizer recipe which was supplied to UTHM. SMC Malaysia Chapter Treasurer, Teoh Chee Hooi has joined the police force in helping Malaysia fight the Covid-19 pandemic.

Tech Insights is another initiative by Malaysia Section with BERNAMA

Radio, led by Dr. Fakhrul Zaman Rokhani, the Strategic Communication Chair. The objective of this 6-episode program (conducted in Malay Language) is to highlight advanced technologies developed by IEEE members that bring benefits to the society locally and the humanity in general. The first three episodes which already aired during Campus Life segment were (1) Early Detection Technology for Diabetic Retinopathy by Dr Fawnizu Azmadi Hussin (IEEE Malaysia Section Chair) on 14th July 2020, (2) Fall Prevention Technology for Senior Adults by Dr Alpha Agape Gopalai and Ir. Dr. Siti Anom Ahmad (EMBS Chapter) on 11th August 2020, and (3) PerfectRide: Technology-Assisted Safe Driving by Dr. Sazalinsyah Razali (SMC & RAS Chapters) on 25th August 2020.

Three international conferences have been successfully organized virtually during the MCO; ICSSA 2020 on 6th May 2020 by IMS Chapter, ICP 2020 on 11th May 2020 by IPS Chapter and ICSE 2020 on 28th – 29th July 2020 by EDS Chapter. In conjunction with IEEE PES Day, PES Malaysia has organized 17 series of Webinars between 25th April and 8th May 2020, while two signature

programs were conducted on 20th June 2020 by PELS Malaysia in conjunction with IEEE PELS Day. During the Webinar entitled "Post Covid-19: Managing in The New Norm" on 15th August 2020, organized by IET, CMI and IEEE Malaysia Section, Dr. Fawnizu shared all initiatives conducted by Malaysia Section during this Covid-19 pandemic.
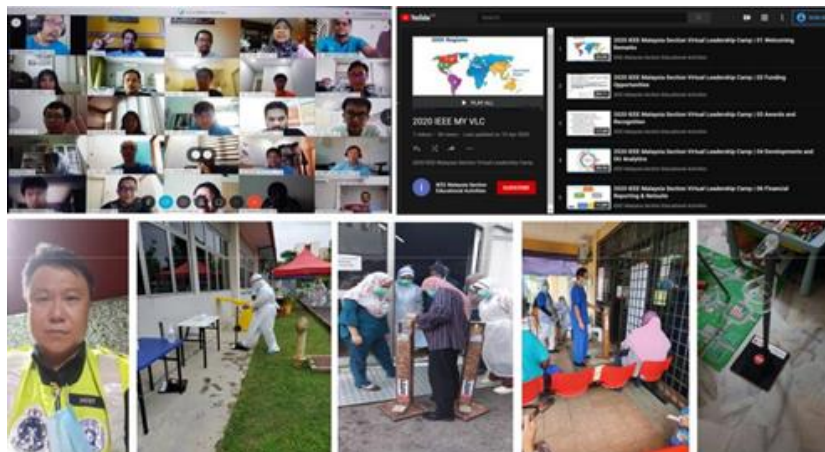
IEEE Sri Lanka Section

Webinar on Post-COVID Engineering Education in Sri Lanka

Ruwan Gopura, Chair for IEEE Sri Lanka Section

IEEE Sri Lanka Section in collaboration with the Department of Mechanical Engineering, University of Moratuwa, Sri Lanka and IMechE Sri Lanka group organized a webinar titled "Post-COVID Engineering Education in Sri Lanka". The webinar was held on 16th July 2020 from 16:30-18:30. An expert panel comprising of Prof. A. Atputharajah, Dean Faculty of Engineering, University of Jaffna, Sri Lanka; Prof. Janaka Ekanayake, Fellow IEEE; Prof. J. P. Karunadasa, Council Member, Institution of Engineers Sri Lanka; and Prof. Leelananda Rajapaksha, former Dean, Faculty of Engineering, University of Peradeniya, Sri Lanka, discussed the contextual challenges and explore the opportunities in Sri Lankan engineering higher education. The discussion was moderated by Prof. Ananda Jayawardena, former Vice Chancellor of University of Moratuwa.

The objectives of the Webinar were to critically discuss specific characteristics of engineering education, to elaborate on post-COVID engineering education techniques and their applicability, and to assess the effectiveness of the quality of delivery and meeting accreditation requirements. The Webinar was targeted to decision-makers in engineering higher education, educators of the higher education bodies in engineering, students in engineering higher education, and other relevant stakeholders of the industry. Prof. Ruwan Gopura, Chair for IEEE Sri Lanka Section, and Dr. JR Gamage, Senior Lecturer at the University of Moratuwa, Sri Lanka co-hosted the Webinar, which attracted around 100 participants.

IEEE Western Australia Section

IEEE Industrial Electronics Society (IES) Western Australia Chapter Establishment and Activities

Amit Kunwar, Newsletter Editor for IEEE Western Australia Section

The most recently established chapter by the IEEE Western Australia (WA) Section is the WA's Industrial Electronics Society (IES) Chapter which was formed in May 2019. Assoc. Prof. Farhad Shahnia, Chair for IEEE WA Section, and Dr. Hai Wang from Murdoch University are the founding chairs of this Chapter. Since the formation, this Chapter has been very active in arranging various technical and social activities, attracting members and supporting them.

In 2019, the Chapter arranged 3 technical seminars, including one distinguished talk by the IES President Prof. Xinghuo Yu, and one workshop by the IES Vice-president Membership Prof. Yousef Ibrahim. In the first 8 months of 2020, the Chapter has arranged 5 technical seminars while 3 additional seminars and one distinguished talk are planned for the remainder of this year. Usually, 20-40 people attended the arranged seminars, which are focused on various aspects of the IES such as industrial systems, power and energy, power electronics and drives, control systems, and mechatronics. The Q&A session in some of the seminars has been well attended by the delegates. From 2020, the Chapter has also created its YouTube channel (https://www.youtube.com/channel/UC4IzbWYYfIRkPDE4gueCDlg) and is sharing the videos of the technical seminars with the interested members and non-members globally. The Chapter has also arranged two social (dinner) networking events in 2019 and 2020.

The WA IES Chapter is one of the technical co-sponsors of the 2020 International Conference on Smart Grids and Energy Systems (SGES 2020) which will be held in November 2020 online (virtually) from Perth, Australia; and the Chapter members are active volunteers in the Conference Executive, Organizing and Technical Committees. The Chapter has also won the bid to host the IEEE 20th International Conference on Industrial Informatics (INDIN), which is one of the IES's key and flagship conferences in Perth, Australia in 2022. The chapter members have key roles in the organizing committee of this conference.

The Chapter has also received a start-up grant from the IES in 2019 and has also won one of the IES's Support to Chapter Local Activities (SCLA) grants in 2020, and these funds are being used by the Chapter to enhance its technical and social activities for the benefit of its local members in WA.

Since formation, the WA IES Chapter has increased its membership number twice and is the most successful chapter of the WA in terms of membership growth. In 2020, the Chapter has also initiated the three awards of Outstanding Engineer, Best Undergraduate Student, and Outstanding Young Researcher to further encourage and praise its volunteers, student members and young professionals as well as to promote IEEE and IES membership locally.

IEEE Mangalore Subsection

IEEE MSS Half Yearly Report

Likewin Thomas, Secretary for IEEE Mangalore Subsection

IEEE Mangalore Subsection (MSS) SAC organized a series of 14 Webinars from 26th February to 13th June 2020. The topics included the general ones such as "Benefits of joining IEEE Signal Processing Society" and "Prepare for Success", which were useful to all levels of membership, as well as more specific topics such as "Tiny-pan Coin-Weighing Problem" and "Introduction and Application of IOT - Where to Start?". These webinars were conducted by renowned speakers such as Dr. K.V.S. Hari, Vice President for IEEE Signal Processing Society and Prof. Wing-Kai Hon from Taiwan. The Subsection also organized 6 Distinguished Lecture series on various topics such as "Recent Advances in Nanophotonics" and "Solar Energy Applications for India". All these webinars were well circulated among all students through e-Notices.

Other activities were the outreach program for NITK Kannada Medium School by NITK, Seminar Week by NITTE, outreach activity to Dakshina Kannada Jilla Panchayath Model Higher Primary School by SJCE Mangalore, 8-hour hackathon by SMVITM Bantakal and National Conference on Engineering Developments by PESITM Shivamogga. Similarly, many invited talks, SDPs and technical activities were conducted even during the pandemic period through online meeting.

Social Outreach program by SJCE, Mangalore

AFFINITY GROUP AND CHAPTER ACTIVITIES

8. AFFINITY GROUP AND CHAPTER ACTIVITIES

IEEE Women in Engineering Bangladesh

Anamika Bhakta, Chair for IEEE WIE Bangladesh

IEEE WIE Bangladesh Section and IEEE PES Women in Power organized 6 Webinars from June to August 2020. The Webinars were mentored and led by Dr. Celia Shahnaz, Chair for IEEE Bangladesh Section and IEEE PES Women in Power R10 Representative.

International WIE Day Celebration

The webinar was attended by 47 speakers and participants from 5 countries (Bangladesh, India, Malaysia, Pakistan and Australia) on the 23rd of June, 2020.

WIE Tech Meetup Online Webinar Series

The number of speakers and participants were 87 (India and Bangladesh), 60 (Bangladesh and India), 30 (Bangladesh, India and Australia) and 31 (Bangladesh) for the first (11th July), second (17th July), third (24th July) and fourth (31st July) Webinar of the series, respectively.

Embracing the Benefits of IEEE Membership

The Webinar was attended by over 40 participants from both industry and academia on 5th August 2020.

Women in Engineering Tech Summit 2020

Nafisa Tasnim, Vice Chair for IEEE WIE Bangladesh

IEEE WIE Bangladesh Section, IEEE Bangladesh Section and IEEE PES Women in Power arranged the "Women in Engineering Tech Summit 2020" as a co-located event during the International COVID Congress 2020 (ICC2020) on 9th August 2020.

The theme of the summit was "Exploring Challenges, Opportunities and Solutions for WIE during COVID-19" and had speakers from both industry and academia. Dr. Bozenna Pasik-Duncan

and Dr. Ruomei Li were the keynote speakers while Dr. Paulina Y Chan, Dr. Dewi Yanti Liliana, Dr. Maheshi Dissanayake, Soumaya Jaber, Dr. Aarti Karande, Pramiti Alam, Shruti Jain and Sudeshna Choudhury were the panelists. Dr. Celia Shahnaz, General Chair for ICC2020 and Chair for IEEE Bangladesh Section was the advisor of the event. Nafisa Tasnim, Vice-Chair and Irtiza Haque, Treasurer for IEEE WIE Bangladesh moderated the session. 110 speakers and participants from 9 countries (USA, China, Hong Kong, India, Indonesia, Japan, Pakistan, Sri Lanka and Bangladesh) attended the summit.

IEEE Women in Engineering Sendai

Tohoku-Section Joint Convention of Institutes of Electrical and Information Engineers

Qiaowei Yuan, Chair for IEEE WIE Sendai

Even with the worldwide COVID-19 pandemic, the special session organized by Sendai WIE was successfully held on 27th August 2020 by Webinar with more than 38 attendees. This session belongs to one Japanese domestic annual meeting called Tohoku-Section Joint Convention of Institutes of Electrical and Information Engineers and was co-sponsored by IEEE Sendai Section and IEEE YP Sendai. One invited talk, 8 presentations from Japanese universities and 5

presentations from Singapore WIE were all narrated attractively by female researchers, encouraging all participants to explore science and technology with passion and efforts. The presented researches covered from robotics, 5G technology, AI, programing, wireless power transfer to biomedical sensor technologies. The invited talk was elegantly delivered by Prof. Etsuko Ueda, Chair for Kansai WIE, who taught us on how to evaluate the grace and how to control robot to behave gracefully and quantitatively. Moreover, the session also started the international cooperation between Sendai WIE and Singapore WIE.

IEEE Young Professionals Bangladesh

IEEE YP Bangladesh Virtual Activities 2020

Sajid Muhaimin Choudhury, Chair for IEEE YP Bangladesh

IEEE YP Bangladesh has organized over 20 virtual-events in 2020. Workshop on the Interface of Engineering and Biology was organized on 27th June 2020. Dr. Muhammad Ashraf Alam, FIEEE and Dr. Firdausi Qadri, recipient of Laurel-Unesco Award 2020, gave talks on solving interdisciplinary problems. 227 people participated in the event.

The YP Meetup was held on 10th August 2020. A total of 113 participants from 28 different countries: Bangladesh, Brazil, Denmark, Egypt, El Salvador, France, France, Indonesia, Japan, Jordan, Kenya, Kuwait, Lebanon, Malaysia, Nepal, Nigeria, Norway, Pakistan, Peru, Philippines, Sri Lanka, Sweden, Taiwan, Turkey, Uganda, United Arab Emirates, United States, participated in the congress, making it a successful international event.

STEP-2020 was organized on 5th September 2020. The event had the theme of Transitioning to a Sustainable Future. YP leaders from Karachi, Lahore, Kolkata, Islamabad, and Hyderabad presented their talks during the event, attended by 100 participants.

IEEE CIS Madras Chapter

Virtual International Seminar on Cognitive Computing and ADHD
Kumarappan N, Chair for IEEE CIS Madras Chapter

IEEE Computational Intelligence Society (CIS) Madras Chapter in association with the Department of Computer Application, BSAR Crescent Institute of Science and Technology in Chennai, India and the Institute of Psychology, Humanitas University in Sosnowiec, Poland have organized a Virtual International Seminar on "Cognitive Computing and ADHD: My child has ADHD. How to discover symptoms and treatment for them?" on 26th June 2020.The event hosted four international experts on ADHD such as Paweł Dobrakowski, Specialist in Neurology from Humanitas University in Sosnowiec, Poland; Matthias Rauterberg, Professor in Designing Interactive Systems from Eindhoven University of Technology, Netherland; Judit Balazs, Professor in Child Adolescent and Adult Psychiatrist from Eötvös Loránd University, Hungary; and Silvana Markovska-Simoska, Professor in Neurophysiology from Academy of Sciences and Arts of North, Macedonia; with opening remark delivered by Dr. N Kumarappan, Chair for CIS Madras Chapter. The seminar attracted 163 participants from four continents and 15 countries.

IEEE EMBS Bangladesh Chapter

Engineering, Medicine, Biology and Healthcare Research and Innovation Colloquium
Shahriar Rifat, Secretary for IEEE EMBS Bangladesh Chapter

IEEE EMBS Bangladesh Chapter and IEEE Bangladesh Section had jointly organized the Engineering, Medicine, Biology and Healthcare Research and Innovation Colloquium as a co-located event during the International COVID Congress 2020 (ICC2020) with the theme of "Exploring Research and Innovation Challenges in the Areas of EMBS During COVID-19". This two-hour long event held on 10th August 2020 hosted 2 keynote talks and 5 invited talks from distinguished researchers in the field of
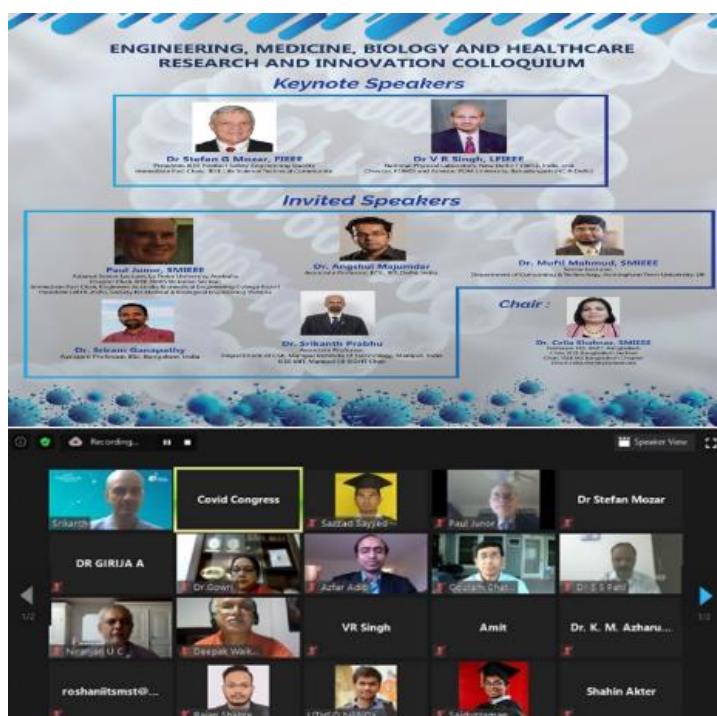
EMBS. The first keynote talk was given by Dr. V. R Singh. Then Paul Junor gave a really impactful talk on COVID 19 spreading pattern in Australia. The 2nd keynote speech was given by Dr. Stefan G Mozar. The colloquium hosted 4 more insightful invited talks from Dr. Angshul Majumdar, Dr. Mufti Mahmud, Dr. Sriram Ganapathy and Dr. Srikanth Prabhu. This impactful event was attended by a 67 EMBS researchers and enthusiasts.

IEEE IAS Bangladesh Chapter

Industry-Academia Innovation Forum

Ahmed Zubair, Secretary for IEEE IAS Bangladesh Chapter

Industry-Academia Innovation Forum, a co-located event during the International COVID Congress 2020 (ICC2020), was held virtually on 10th August 2020 from 7:00PM to 9:00PM Bangladesh Standard Time with the aim of addressing the research and innovation challenges, research field prioritization, and collaboration between industry and academic researchers during COVID-19. Dr. Tomy Sebastian, President of IEEE IAS 2017-2018, and Prof. Sri Niwas Singh, IEEE IAS PL 2019-20, delivered the keynote talks highlighting the scale, scope, and pattern change of inventions and explained how to mitigate the challenges of the fourth industrial revolution during the COVID-19 pandemic situation. Prof. Jin-Woo Ahn, Prof. M. Rezwan Khan, Prof. Ruwan Gopura, Rajashekhar S, and Zafir Shafiee Chowdhury, the five experts from industry and academia, expressed their views on the theme of the forum, chaired by Prof. Celia Shahnaz and moderated by Dr. Ahmed Zubair. There was also an interactive Q&A session during the forum.

IEEE PES Bangladesh Chapter

Event Report of PES Bangladesh Chapter

Md. Zahidul Anam, Newsletter and Publicity Coordinator for IEEE PES Bangladesh Chapter

The Annual General Meeting and the Election of IEEE Power and Energy Society Bangladesh Chapter (BDC) 2020 was held on 8th January 2020 at Brac University in front of 30 participants. As part of PES Day activity, an online article writing competition is organized from 29th April to 10th May 2020 to invite novel ideas on how Electrical Engineering research can aid to combat this pandemic. To involve students more in brainstorming activities during this pandemic, on 23rd May 2020, BDC organized an idea contest "Enlight" in association with IEEE PES AUST and IEEE PES BRACU SBC where 33 participants submitted concept papers on 'Technical Approach to Prevent Locust Swarm'. On
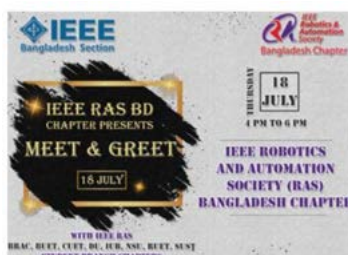
9th August 2020, IEEE NSU PES SBC with the support of BDC organized a Webinar on "Managing the Future Grid - A Balancing Act Among RE, EV & ES". Dr. R. Nagaraja, Chair for IEEE PES India Chapters Council was the honorable speaker. Read more at https://site.ieee.org/bangladesh-pes/news/

IEEE RAS Bangladesh Chapter

Webinars by IEEE Robotics and Automation Society Bangladesh Chapter

Lamia Iftekhar, Humanitarian Activities Coordinator for IEEE RAS Bangladesh Chapter

IEEE Robotics and Automation Society (RAS) Bangladesh Chapter along with IEEE Bangladesh Section organized two impactful Webinars recently. On 18th July 2020, a Meet and Greet was held among the eight IEEE RAS Student Branch Chapters of Bangladesh, who shared their yearly plans and partook in an exciting COVID'19 themed idea-generation activity. The packed three-hour long event included a keynote speech by Dr. Kavi Arya (Professor, IIT Bombay) and was attended by 81 participants in total. The second

Top left: Banner for Meet and Greet on 18th July

Top Right: a snapshot of the Meet and Greet by IEEE RAS Bangladesh Chapter

Bottom Left: Banner for the Webinar on Mobile Robotics on 25th July

event, taking place on 25th July and boasting 136 participants from India and Bangladesh, featured an invited speech on Mobile Robotics by Dr. M. Shivakumar (Principal, GSSSIETW, India), moderated by Dr. Shaikh A. Fattah (Chair, IEEE RAS Bangladesh Chapter). Dr. Celia Shahnaz (Chair, IEEE Bangladesh Section) graced both events with her presence and valuable insights on robotics projects in Bangladesh and importance of long-term engagement.

IEEE SPS Bangladesh Chapter

SPS Research and Innovation Conclave

S.M. Saiduzzaman, Secretary for IEEE SPS Bangladesh Chapter

There is no alternative to extensive research, innovations and collaboration in stopping and preventing COVID-19. Based on this theme, IEEE Signal Processing Society (SPS) Bangladesh Chapter and IEEE Bangladesh Section jointly organized the SPS Research and Innovation Conclave on 9th August 2020, 7pm-9:30pm Bangladesh Time, as a co-located event during the International COVID Congress 2020 (ICC2020). The invited speakers of the events were Dr. S M Shamsul Islam, Dr. Sudipta Mukhopadhyay, Dr. Suresh Kumaraswamy and Dr. M V Rajesh. The panelists were Dr. P Arulmozhivarman, Dr. M Moshiul Hoque, and Dr. M V Krishna Rao. Dr. Celia Shahnaz, IEEE SPS Bangladesh Chapter Chair presided over the event. Dr. Celia emphasized on the timely theme and encouraged the attendees to step up and

contribute in the field. Dr. Shaikh Fattah, Vice Chair for IEEE SPS Bangladesh Chapter closed the event by encouraging the same and thanking the speakers. More than 80 people attended the event.

IEEE SSIT Bangladesh Chapter

Socio-Technical fight against the COVID 19 Pandemic

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

During the pandemic, the necessity of the bridge between societal and technical activities is being felt more and more. To facilitate the objective, IEEE Society on Social Implications of Technology (SSIT) Bangladesh Chapter has organized a parallel event "Socio-Technical fight against the COVID 19 Pandemic" during the International COVID Congress 2020 (ICC2020) on 10th August 2020. The speakers of the event were:

1. Howard Wolfman, PE, Treasuere and Board Member, IEEE SSIT,
2. Katina Michael, Professor, Arizona State University, USA,
3. Roba Abbas, University of Wollongong, Australia,
4. Chong Yu Zheng, Universiti Tunku Abdul Rahman, Malaysia,
5. Jawad Y Siddiqui, University of Calcutta.

Each speaker shared their personal experience and vision regarding the theme of the event. Dr. Shaikh Fattah, Chair for IEEE SSIT Bangladesh Chapter moderated the event. Dr. Celia Shahnaz, General Chair for ICC2020 was a guest of honor of the event. The event was attended by 70 participants.

IEEE PES and COMSOC Kolkata Chapter

ICCE-2020

Tridibesh Nag, Newsletter Committee Chair for IEEE Kolkata Section

IEEE PES Kolkata Chapter in association with Netaji Subhash Engineering College organized the 1st IEEE International Conference in Convergence of Engineering (ICCE-2020) during 5th – 6th September 2020 through virtual platform AIRMEET. IEEE Kolkata Section and IEEE Kolkata ComSoc Chapter were the technical sponsors of ICCE-2020. Total participants for the conference were 548.

There were four major tracks: (1) Electronics & Communications, (2) Electrical, (3) Computer Science and IT, and (4) Interdisciplinary. 240 submissions were received, in which 97 papers were accepted. 52 sessions were held which includes 7 keynote addresses, 12 plenary sessions, 8 special sessions, 6 workshops & tutorial sessions, 2 industry panel discussions, 1 students panel discussion and 16 interactive technical sessions.

Renowned speakers from top notch institutes of India and abroad delivered the lectures. The student panel discussion on 'Convergence in the field of Industry and Engineering' was organized by Teamcognito and moderated by Mr. Sanket Sarkar.
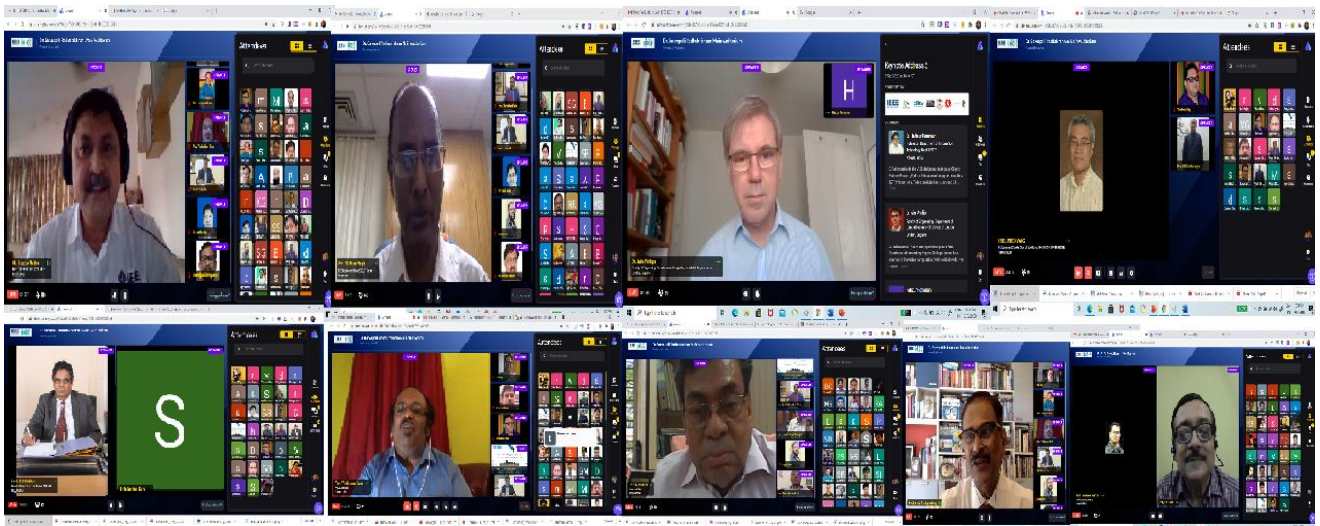
IEEE AP/MTT/EMC Islamabad Joint Chapter

EMC Chapter of the Year Award 2020

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

The IEEE MTTS/APS/EMCS Islamabad Joint Chapter is awarded the "EMC Chapter of the Year Award" for 2020. The award was announced during the IEEE EMC-SIPI Symposium 2020 award ceremony that was held virtually on 28th August 2020. It is pertinent to mention that all the three parent societies have bestowed the outstanding chapter awards to IEEE MTTS/APS/EMC Islamabad Joint Chapter (MTT in 2019 while APS and EMC in 2020). The chapter is currently led by Dr. Nosherwan Shoaib who is affiliated with Research Institute for Microwave and Millimeter-Wave Studies (RIMMS), National University of Sciences and Technology (NUST), Islamabad, Pakistan.
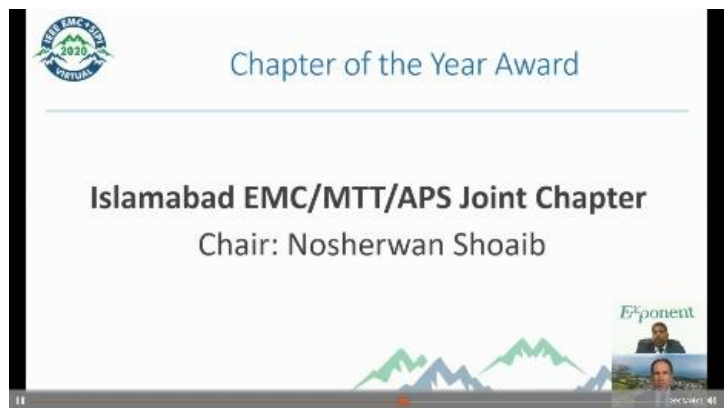
STUDENT BRANCH AND STUDENT CHAPTER ACTIVITIES

9. STUDENT BRANCH AND STUDENT CHAPTER ACTIVITIES

IEEE BMSIT&M Student Branch [Bangalore Section]

Glimpses of IEEE SB BMSIT&M

Likitha Madhav M.R, Secretary for IEEE BMSIT&M Student Branch

IEEE BMSIT&M Student Branch led many interesting activities during the pandemic to keep the students engaged. We held meme making contest on 22nd June 2020 which witnessed 20 entries. Following this, a workshop on "Web API and JSON Parsing" was conveyed by Tushar Pandey to 50 participants on 23rd June 2020. An online technical quiz was directed by the IEEE BMSIT&M CS Student Chapter, on 9th July 2020 with 60 individuals participated in the event. Mr. Anand Jagadeesh, Secretary for IEEE CS Bangalore Chapter conducted the "Getting Xtreme Ready" Webinar on 18th July 2020, which was attended by 35 participants. The "Why IEEE?" Webinar was delivered by Dr. Abhishek Appaji, Chair for IEEE SIGHT Bangalore Chapter on 11th August 2020 to 30 students and professional members. "Our journey to the Center of IEEEarth" was a super exciting talk by Saptarshi Ghosh, Janani Ramachandran, Gaurav Sethia and Pranav Raikote on 16th August 2020, where these dynamic volunteers shared their experience as IEEE members to 30 participants.
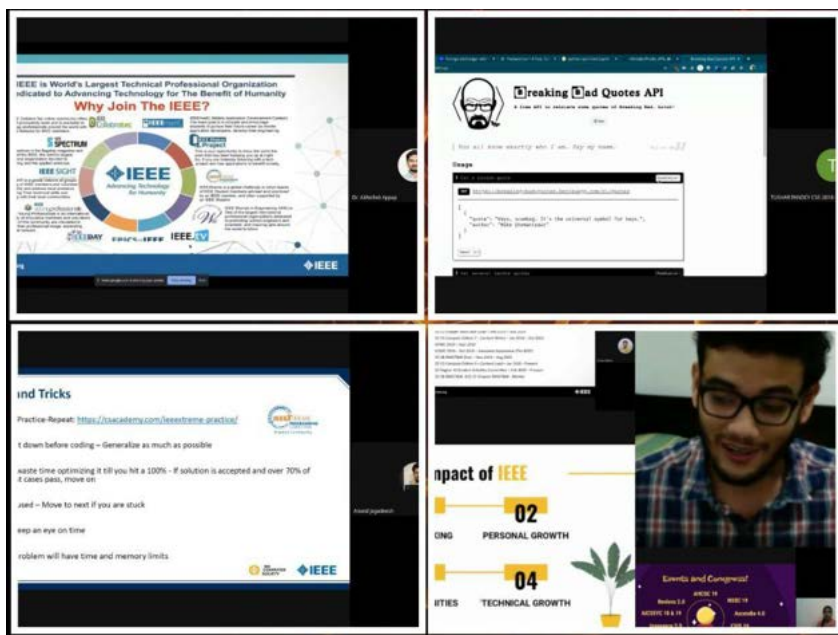
IEEE NITK Student Branch [Bangalore Section]

IEEE NITK Virtual Project Expo 2020

Deeksha S, Chairperson for IEEE NITK Student Branch

The annual Project Expo 2020 was hosted by the IEEE NITK Student Branch on 12th July 2020 on its website. Experiential learning through projects is one of the best forms of education. Projects foster a multitude of skills like team management, presentation, formal publications, and overall profile building. We at the IEEE NITK Student Branch undertake year-long projects with research-oriented and industrial goals to further our understanding. Guided by the professors and alumni of NITK, our projects spanned across various fields including aerodynamics, deep learning, robotics,

power electronics, and much more! Even amidst the pandemic, we have successfully implemented projects such as car automation, blind assistance, CodeShare, and rocket propulsion systems, which have been compiled in our Virtual Expo (https://ieee.nitk.ac.in/virtual-expo/) with more than 650 views. Additionally, under Envision, the brainchild of IEEE-NITK, we mentor first-year students through unique project ideas kick starting their exploration in various fields. We strive to maximize productivity while inspiring other branches to incorporate projects into their activity plan, and welcome all invaluable feedback and possible collaborations.

IEEE BUET Student Branch [Bangladesh Section]

Student Membership & Leadership Summit 2020: Fostering the Leaders of Tomorrow through Involvement in IEEE

Satyaki Banik, Chair for IEEE BUET Student Branch
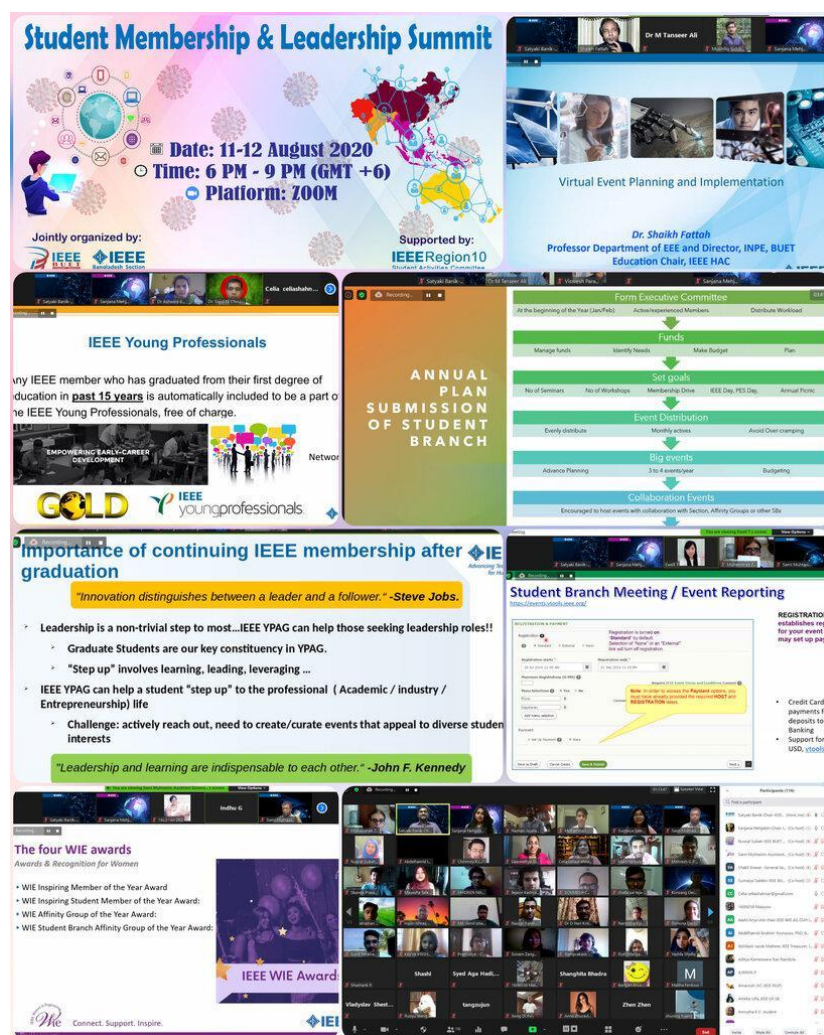
IEEE BUET Student Branch and IEEE Bangladesh Section jointly organized the "Student Membership & Leadership Summit" on 20th – 21st August 2020, under the support of IEEE Region 10 Student Activities Committee. The virtual event was attended by 364 participants from 39 countries of 10 different IEEE Regions, out of which 64.67% were IEEE members. 84.52% of the participants were student and graduate student members while the rest were professional members.

There were a total of 13 different sessions, panel discussions & interactive group sessions with 28 different speakers from various fields of expertise. All the sessions were targeted for the development of both undergraduate & graduate students as well as student branches – focusing on individuals and collective development altogether. A six-part online quiz "How much do you know IEEE?" were conducted to keep the event engaging and informative. The quiz questions covered IEEE regions, sections, student branches, members' benefits, awards, brand guidelines and many more.

TechTalk Webinar Series: Research & Innovation Challenges in Signal Processing During COVID-19

Sheikh Asif Imran, Chair for IEEE BUET SPS Student Chapter

To initiate a discussion regarding research opportunities in Signal Processing during the pandemic, a virtual Webinar series was jointly organized by IEEE BUET SPS Student Chapter, IEEE BUET WIE AG, IEEE BUET Student Branch, and IEEE Bangladesh Section. The event was virtually held on 19th July 2020 on Zoom where 125 people from 16 different countries participated among which 56.8% were IEEE members.

With the topic "Emotion, Mood State and Information Processing on COVID-19 Pandemic based on Time Series Analysis" on board, moderator Dr. Celia Shahnaz commenced the talk. Following that, speaker Dr. Gita Pendharkar discussed how signal processing in real-time can contribute towards increasing mobility for physically challenged patients. Later Dr. Sachinandan Mohanty discussed how mood states affect human decision-making process and information processing ability and how this correlation can be utilized in the COVID-19 situation. The event ended with an inquisitive Q&A session with the participants.
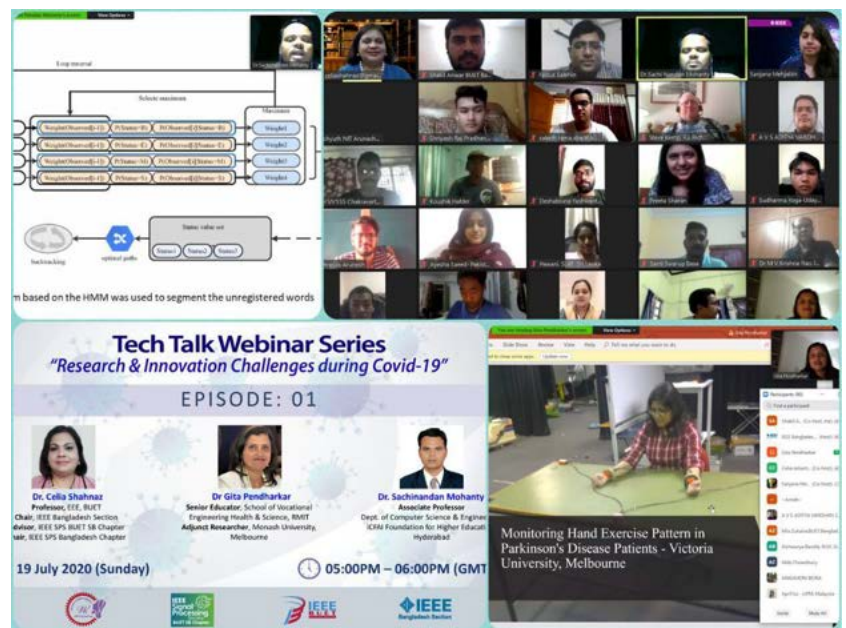
TechTalk Webinar Series: Research & Innovation Challenges in Industry Application During COVID-19

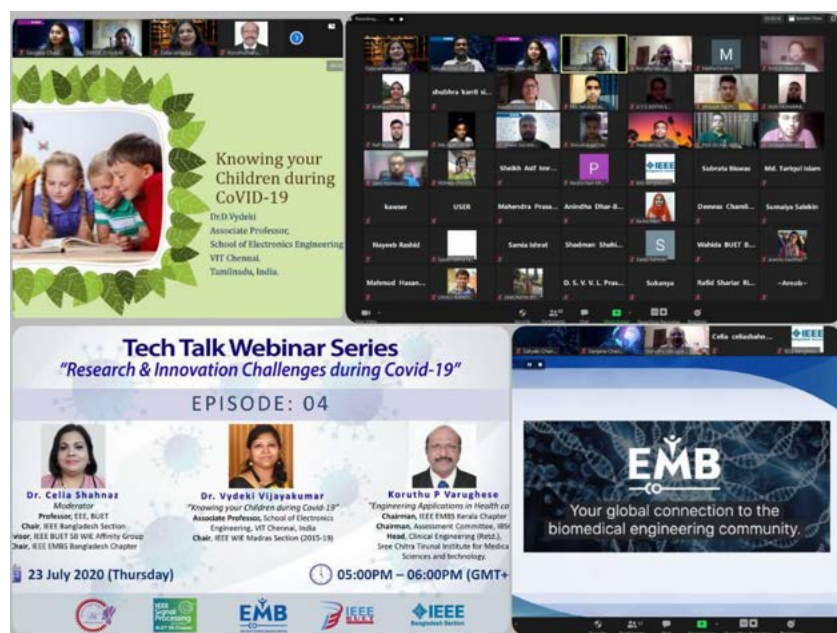**Shadman Shahid, Chair for IEEE BUET IAS Student Chapter**

To initiate a discussion regarding research opportunities in Industry Applications during the pandemic, a virtual Webinar series was jointly organized by IEEE BUET IAS Student Chapter, IEEE BUET WIE AG, IEEE BUET Student Branch, and IEEE Bangladesh Section. The event was virtually held on 20th July 2020 on Zoom where 95 people from 16 different countries participated among which 71.6% were IEEE members.

With the topic "Empower Current and Prospective Women Engineers with TryEngineering Resources to Combat COVID-19 and Embrace the New Norm", moderator Dr. Celia Shahnaz commenced the talk. Speaker Dr. Paulina Chan shared her insights about how remote learning can be incorporated into our life while maintaining social distancing, as well as the role of TryEngineering resources. Later Dr. Yarlagadda Padma Sai talked about her research on COVID-19 - a cough scanner, followed by a Q&A session.

Tech Talk Webinar Series: Engineering Research & Innovative Challenges in Technologies in Medicine and Biology During COVID-19

Farhan Hamid, Newsletter Coordinator for IEEE BUET Student Branch

To initiate a discussion regarding research opportunities in engineering medicine and biology during the pandemic, a virtual Webinar series was jointly organized by IEEE BUET EMBS Student Chapter, IEEE BUET WIE AG, IEEE BUET Student Branch, and IEEE Bangladesh Section. The event was virtually held on 23rd July 2020 on Zoom where 90 people from 16 different countries participated among which 66.7% were IEEE members.

With a view to gaining more insights on how modern technologies in medicine & biology are being effectively used in fighting this global pandemic, moderator Dr. Celia Shahnaz commenced the talk. Speaker Dr. Vydeki Vijayakumar discussed her research work on special learning disabilities & the screening techniques to identify them. Later Koruthu P. Varughese discussed the applications of digital stethoscope, telemedicine, wearable ECG device and robotics and artificial intelligence in healthcare, followed by a Q&A session.

TechTalk Webinar Series: Research & Innovative Challenges in Robotics and Automation During COVID-19

Suhee Sanjana Mehjabin, Chair for IEEE BUET WIE AG

To initiate a discussion regarding research opportunities in robotics and automation during the pandemic, a virtual Webinar series was jointly organized by IEEE BUET RAS Student Chapter, IEEE BUET WIE AG, IEEE BUET Student Branch, and IEEE Bangladesh Section. The event was virtually held on 22nd July 2020 on Zoom where 98 people from 16 different countries participated among which 71.4% were IEEE members.
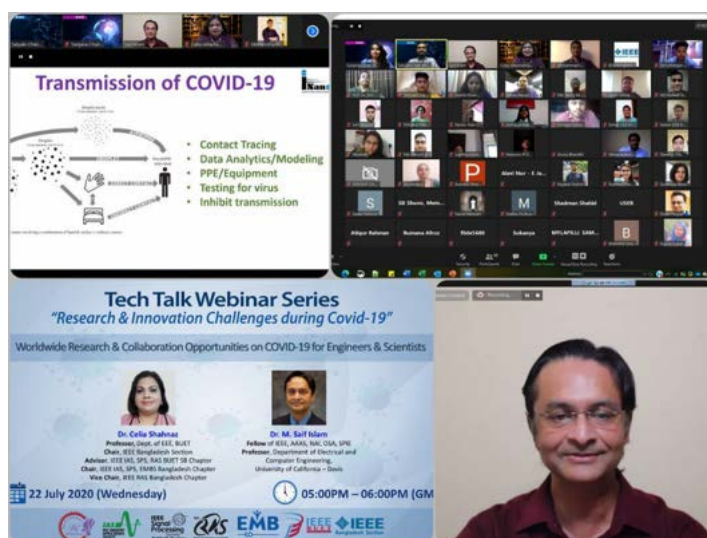
With the topic "Worldwide Research & Collaboration Opportunities on COVID-19 for Engineers & Scientists" on board, moderator Dr. Celia Shahnaz commenced the talk. Speaker Dr. M. Saif Islam presented the airborne transmission process of COVID-19 and the minimization processes which are being developed in California. He later explained his research procedure which was focused on the safe ionization process to trap viruses like Influenza, Rota, SARS, COVID-19 and Calicivirus. The event came to an end following a round of Q&A session.

IEEE UAP Student Branch [Bangladesh Section]

Workshop on Communication Skill and Webinar 'IEEE to IEEE Xtreme'

Syeda Jannatul Ferdaus, Publicity Head for IEEE UAP Student Branch

IEEE University of Asia Pacific (UAP) SB accompanied by IEEE UAP WIE AG hosted the 'One Certificate Course on Communication Skills' on 15th January 2020, a workshop supported by 'Thoughts' – a global standard consultancy firm. Muhammad Mahbubul Alam, Chairperson of 'Thoughts' was the instructor and it was a well-received workshop participated by 30 students.

IEEE UAP SB also hosted a two-day Webinar on 'IEEE to

IEEE Xtreme' on 14th and 16th August 2020. On day one, the Webinar started with a presentation on the benefits of IEEE membership followed by an interactive session where volunteers from different SB shared their experience as an IEEE member. On the closing day of this virtual event, an informative session on IEEE Xtreme programming competition was conducted by the SB ambassadors. Guest speakers Dr. Tapan Kumar Chakraborty (Head od Department, EEE, UAP), Student Branch counselor Md. Sazzadur Rahman and UAP WIE AG advisor Tanima Tasmin Chowdhury gave their remarks.

IEEE BUP Student Branch [Bangladesh Section]

## WEAVE - International Women in Engineering Day Celebration

Syed Sadia Hossain, Chair for IEEE BUP WIE AG

IEEE BUP WIE Affinity Group organized this year's signature event, WEAVE as part of celebrating the 'International Women in Engineering Day'. The purpose of WEAVE was to provide a platform for individuals to showcase their talents through some contests which reflected qualities in critical thinking, designing and creative writing. Three contests which started from 16th June 2020 included problem-solving, digital artwork and write-up contests.

A total of 67 submissions were received from 21 different institutes all over the country. The event even received participants from Nepal, Australia and USA who registered to join the event.

A career session was conducted by Achia Khaleda Nila (CEO, Women in Digital) on 23rd June and another session with Dr. Hasanuzzaman Sagor (Assistant Professor, Queen Mary University) was held on 30th June to discuss technical skills and research workflows. In each session, there were almost 170 participants present. In the final part of the program, the results of the contests were announced.
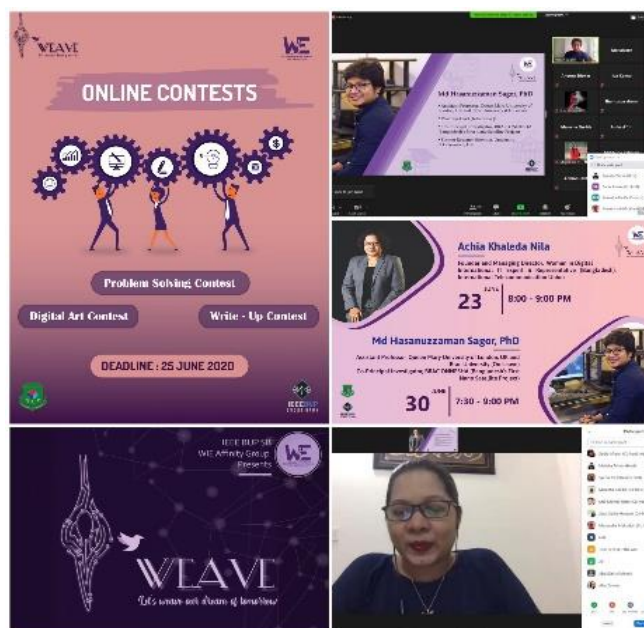
IEEE MSIT Student Branch [Delhi Section]

Prerna Sehrawat, General Secretary for IEEE MSIT Student Branch

Applications of AI in power grid system

IEEE MSIT PES Student Chapter, in association with Pantech, launched PANTECH-E BYTES 2020 - a Webinar session on Applications of Artificial Intelligence in Power Grid System. The event, held on 31st July 2020, was live on YouTube and witnessed over 400 viewers. The main aim of the webinar was to share the knowledge of the latest and trending skills and technologies to the students by industrial experts. The session was one hour long and the students were engrossed in gaining the knowledge the entire time. A few key topics discussed during the Webinar were:

- Planning for generation expansion, power system reliability, transmission expansion, and reactive power,
- Control of voltage, frequency, and stability, and power flow,
- Automation for restoration management, fault analysis, and network security,
- Forecasting for the electricity market, solar power, and wind power.

The session was a great success and the attendees were happy with the knowledge they received and every attendee was awarded an e-certificate.

International Education: What, How and When

IEEE MSIT Student Branch, with the aim of "leading the wave of change", aspires to achieve excellence in all its endeavors. The Student Branch committed to help young undergraduates evaluate their career

goals, polish their technical skill set, and create the building blocks of lifelong and diverse professional network by providing them a plethora of opportunities. For this, the IEEE MSIT SB collaborated with IDP for a consultancy session on 8th September 20 at 7pm via Zoom to brief on higher education studies in various courses. There were three speakers for the session, Mrs. S. Chopra, Mrs. Harpreet Kaur Mullay and Mrs. Megha Saxena, with 70 participants. It can be proudly stated that this initiative proved to be very fruitful for students who are planning or want to go abroad for higher education.

Campus Placement 101

The IEEE MSIT Computer Society Student Chapter conducted a Webinar on 30th August 2020 on Campus Placements. The speaker was Mr. Brayan Abraham, an MSIT alumnus who is now serving as a Software Engineer at WINGIFY. He was also the Technical Activities Coordinator at IEEE MSIT and placement coordinator for the year 2019-20.

Mr. Brayan shared his experience and knowledge with the attendees and focused his attention on the above topics. He started by describing "The Process" which included the cutoff for shortlisting students for placements. Preparation guidance was also imparted throughout the session covering many aspects namely aptitude and logical, English, coding, core subjects and puzzles. The attendees were also provided with resources that could be of help in future. The session saw record breaking attendees with more than 60 participants throughout the session. The original session timings were extended to more than half an hour with such active participation from attendees.

Energy Efficiency in Smart Buildings

An international Webinar on 'Energy Efficiency in Smart Buildings through IoT Sensors Integration' was conducted by the IEEE MSIT PES Student Chapter, sponsored by the IEEE PES/IAS Delhi Chapter. Prof. Saifur Rahman, President for IEEE PES 2018 & 2019 and 2021 IEEE President-Elect candidate was the speaker. The Webinar was hosted on Cisco Webex with 160 attendees from various backgrounds-students, faculties and researchers. The Webinar witnessed enthusiastic discussion on recent trends and developments in smart buildings and sensors deployment in building sustainable architectures. The Webinar does not only buoy up the audience with new and innovative ideas which can help them develop new products, but also help them to get an insight of the research activities going around in the related domain. At the end of the talk, a Question and Answer Session was held where audiences get the chance to interact with the speaker and ask relevant queries.

IEEE Tezpur University Student Branch [Kolkata Section]

CODE FOR CHARITY

Rajdeep Ghosh, Public Relations Officer for Tezpur University Student Branch

CODE FOR CHARITY was a non-profit contest aimed to help the community in the war against COVID-19. The contest, held on 4th July 2020, aimed to sharpen programming skills among the participants by engaging them in challenging tasks. There was a small entry fee set for participation and all proceeds were donated to the local government of Assam and Feed India NGO. The competition was hosted on the popular competitive coding portal HackerRank.

CODE FOR CHARITY was a major success with the following highlights:

1. Pulled in registrations from a total of 7 countries: India, Singapore, USA, England, Belgium, Italy and Germany.
2. Raised a total of INR 16000.
3. Total registrations of 128 participants.
4. INR 8000 donated to Feed India NGO to provide food for those who cannot afford.

We did what we do best, we coded for charity.

IEEE IIT Kharagpur Student Branch [Kharagpur Section]

Webinars on 5G and Terahertz

Tazeen Shaikh, Vice Chair for IEEE IIT Kharagpur AP-MTTS Student Chapter

The IEEE AP-MTTS Student Chapter of IIT Kharagpur organized a couple of online activities in the month of July and August 2020. An invited talk by Prof. Sankaran Aniruddhan of IIT Madras was organized on 31st July 2020 on the topic "5G NR: The India Perspective", with 56 participants. Prof. Aniruddhan emphasized on the key enabling technologies for 5G NR which are mmWave, massive MIMO and IoT. An overview of 5G Test Bed project of DOT, India was also given. This illuminating talk was followed by QnA session. A Distinguished Lecture (DML) by Prof. Ho-Jin Song of POSTECH, Korea was arranged on 11th August 2020 on the topic "Terahertz Communications at 300 GHz: Devices, Packages and System". Prof. Song highlighted the importance of Terahertz frequencies in terms of large bandwidth and high data capacity. He also informed about the first full system demonstration in 20 Gbps KIOSK system at 300 GHz during 2011-2015. This enlightening talk attracted 54 participants.

IEEE University of Moratuwa Student Branch [Sri Lanka Section]

Moratuwa Engineering Research Conference (MERCon) 2020

Awishka Thuduwage, Secretary for IEEE University of Moratuwa Student Branch

MERCon 2020 is the sixth edition of the international engineering research conference organized by the Engineering Research Unit (ERU) of University of Moratuwa in collaboration with the IEEE University of Moratuwa Student Branch. Due to the unprecedented condition caused by the COVID-19 pandemic, MERCon 2020 had to be reorganized as a fully virtual conference with the aim of achieving its objectives as usual. The conference was held from 28th to 30th July 2020.
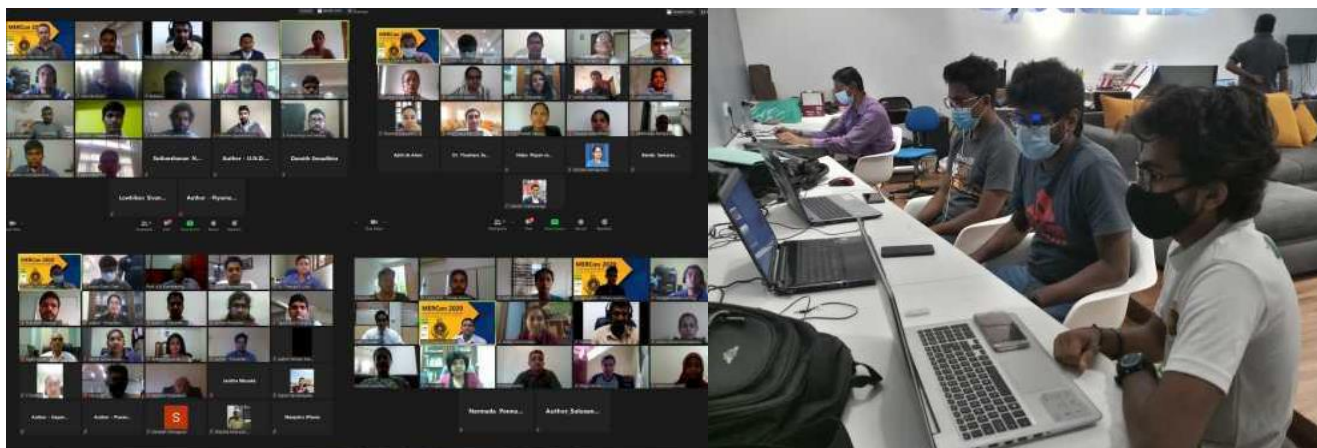
More than 100 papers from nearly all disciplines of engineering were accepted and presented fully at the conference. The conference proceedings will be submitted for publication to IEEEXplore soon. The keynotes of the event were delivered by Prof. Suranga Nanayakkara (The University of Auckland, New Zealand), Prof. Soumyajit Mandal (University sof Florida, USA) and Prof. Dzung Viet Dao (Griffith School of Engineering, Australia).

## First Ever PELS Movement in Sri Lanka with Prof. Frede Blaabjerg

Kasuni Wanninayake, Secretary for IEEE University of Moratuwa PELS Student Chapter

IEEE University of Moratuwa Power Electronics Society (PELS) Student Chapter is the first ever PELS Organizational Unit in Sri Lanka which was established on 18th May 2020. The founding Executive Committee for the term 2020/2021 was appointed in the initial General Meeting. Further a Webinar on "Climbing the ladder of leadership with IEEE PELS" was organized on 20th June 2020 under PELS Day Celebrations, with 45 participants. During the Webinar, the President of IEEE Power Electronics Society, Prof. Frede Blaabjerg, conducted an informative session to build awareness about leadership paths in PELS. Next, the first Quarter Review Meeting was held to discuss the upcoming events as well as novel suggestions to deliver better outputs through PELS. An orientation program was also held to introduce the opportunities and tasks for the Supportive Committee. On a final note, the IEEE PELS Student Chapter of University of Moratuwa stands as a strong pillar to lead, empower and sustain the future.

FESTx – An awareness session on IEEE Women in Engineering

Dinithi Amarasinghe, Secretary for IEEE University of Moratuwa WIE AG
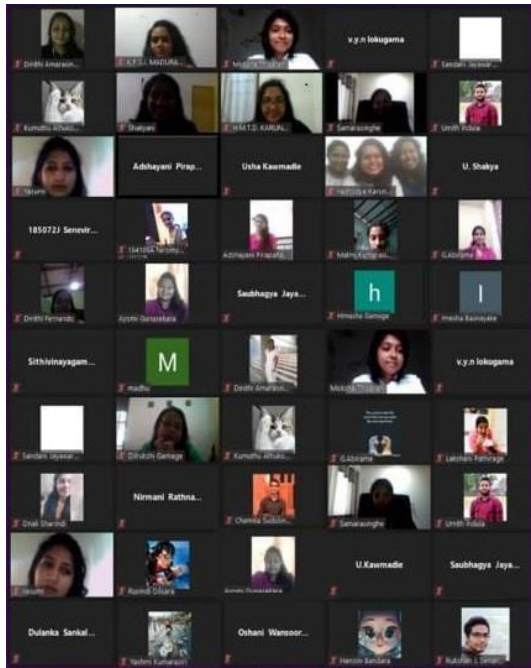
FESTx was an online session organized to create awareness on Women in Engineering among the undergraduates of University of Moratuwa. It was held on 16th August 2020, with 70 participants. The event lineup included an inspirational introductory speech by Miss Shakyani Jayasiriwardena, the former chair of IEEE University of Moratuwa WIE AG, and a discussion session with the following women who have excelled in their WIE careers: Dr. Rasara Samarasinghe, Vice Chair of IEEE WIE Sri Lanka; Mrs. Dilrukshi Gamage, member of IEEE R10 Membership & Student Development Committee; Miss Yasumi Wickramasinghe, Country Lead for IEEExtreme 12.0; and Miss Ayomi Gunasekara, Event Chair for IEEE Techno Meetup 19/20. We believe this event was successful in creating awareness and inspiring young engineers to work with WIE, in the journey of creating opportunities and platforms for women engineers to learn and grow in the technology arena.

IEEE SLTC Student Branch [Sri Lanka Section]

Orator'20 and Road to Codemania

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

The Orator'20 has organized by the Media Club in collaboration with the IEEE SLTC Student Branch to encourage public speaking among the undergraduates. The webinar on "Introduction to Public Speaking" was held on 28th August 2020 via Zoom. Invited resource speaker Shahan Fernando hosted the session. More than 60 students attended the Webinar.

Secondly, ICSAC of IEEE SLTC Student Branch has organized a Webinar series on Java programming named "Road to Codemania". The first and second Webinars were successfully accomplished on 31st August and 7th September 2020 respectively via Zoom online platform with the content of "Java Programming Basics". More than 200 participants engaged with the Webinars and obtained new knowledge. The Webinar was conducted by Mr. Yohan Pandigama, an expert on natural algorithms and the theory of computation, spanning over an hour providing the basics concept of Java Programming.

AWARDS

AND

FUNDING

10. AWARDS AND FUNDING

IEEE R10 Student Branch Website Contest

IEEE R10 | IEEE R10 SAC

https://sac.ieeer10.org/

IEEE Region 10 Student Branch Website Contest

The IEEE Region 10 Student Branch Website Contest was designed to encourage student volunteers to fully utilize the power of the Internet for keeping the members informed about activities, opportunities and new initiatives.

RESULTS

First Place

The Northcap University
Delhi Section

Second Place

Universiti Teknikal Malaysia Melaka
Malaysia Section

Third Place

NUST School of Electrical Engineering and Computer Science
Islamabad Section

Congratulations!

The winning websites will be competing in the global student branch website contest organized by IEEE Member Geographic Activities (MGA) Student Activities Committee.

IEEE Region 10
Student Activities Committee

region 10

IEEE R10 UNDERGRADUATE PROJECT VIDEO CONTEST

The IEEE R10 Undergraduate Project Video Contest aims to improve the engineering students' communication and presentation skills to a wider online viewing community, which may include the technical and non-technical audiences.

RESULTS

First prize
Team members: Nishat Subha, Toshiba Kamruzzaman, Mst. Sumaya Akter
Video title: Development of IoT Based Real Time Cardiac State Monitoring System
Section: Bangladesh Section

Second prize
Team members: Nishchay Singh Muktawat
Video title: EMP Generator
Section: Uttar Pradesh Section

Third prize
Team members: Harsh Patel, Vaibhav Kothi
Video title: E-Bot: Arogya Sahayak
Section: Gujrat Section

Women in Engineering Prize
Team members: Nitya Keshari, Anurag Bajpai, Ishita Jaiswal
Video title: U V BOX
Section: Uttar Pradesh Section

CONGRATULATIONS!

IEEE Region 10
Student Activities Committee

region **IEEE 10**

IEEE REGION 10 2020 SPECIAL CALL FOR PROPOSALS RELATED TO COVID-19

RESULTS

This initiative aimed to provide funding for activities or ideas that contribute to solve or assist communities suffering due COVID19 crisis. For example, technical solutions such as assisting robots, building ventilators or 3D printing PPEs to social activities such as COVID19 awareness sessions and community projects.

Winning Projects are funded with 400 USD

Region 10 Student Activities Committee (SAC) is pleased to announce the following awarded winners for 2020 Special Call for Proposals related to COVID-19.

@R10SAC @IEEER10SAC @IEEER10SAC r10sac@ieee.org sac.ieeer10.org

WINNERS

(1) Project Name: Let's Unchain it
Section: Kerala Section
Student Branch: Viswajyothi College of Engineering and Technology, Vazhakullam Student Branch
Submitter: Jetson Joseph
Team Member: Allen P Biju; Jetson Joseph; Albin Paul; Govind V Shenoy; Devika Suresh Kumar; Uthara Pradeep; Anathakrishnan S Nath; Basil Eldhose

(2) Project Name: Smart Temperature Monitoring and Automatic Sanitizer Dispenser
Section: Uttar Pradesh Section
Student Branch: J S S Academy of Technical Education Student Branch
Submitter: Syed Hasan Askari Rizvi
Team Member: Shreya Gupta; Riya Tohangar

(3) Project Name: Covid19 AI Enabled Chat Bot
Section: Hyderabad Section
Student Branch: Vardhaman College of Engineering Student Branch-Shamshabad Student Branch
Submitter: Mallellu Sai Prashanth
Team Member: Mallellu Sai Prashanth; Dr. Meerja Akhil Jabbar; Durga Nagendra Akash Mallareddy; M. Pranay Kashyap; D. Ajay

(4) Project Name: Find Delivery
Section: Sri Lanka Section
Student Branch: University of Peradeniya Student Branch
Submitter: Ranitha Mataraarachchi
Team Member: S.M. Viraj Dhanushka

(5) Project Name: Engaging with Industry – Leveraging on IR 4.0
Section: Malaysia Section
Submitter: Alpha Agape Gopalai
Team Member: Muhammed Hussein; Chua Wen Shyan ; Amardeep Singh Dhillon A/L Gurdir Singh ; Muhammad Firdaus bin Mohd Zaki ; Nurul Ain Binti Hamizan; Chong Hong Yao; Asif Ahmed

IEEE
region 10

IEEE Region 10
Student Activities Committee

IEEE Region 10 Student Activities Committee
Membership Development & Leadership Training Fund 2020

The purpose of the fund is to persuade sections/student branches to organize events for training on leadership, successful execution of student branch program and to run membership drives, aiming to enhance student membership number and its retention.

Results

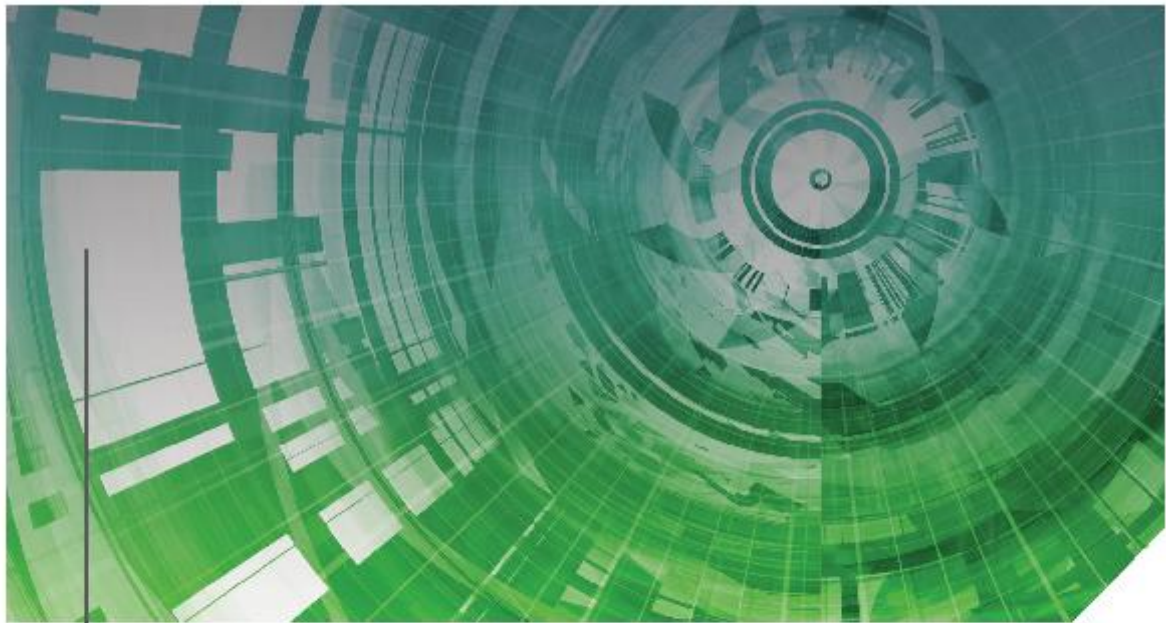**Each selected project will be funded a maximum of US$ 400 in accordance to Region 10 Matching Fund policy**

WINNERS   *in no particular order*

1. Pune Section Student Young Professionals Women In Engineering Congress (PSYWC 2020) - Pune Section
2. IEEE Leadership Insight (ILI)- Madras Section
3. IEEE Malaysia Leadership Training Workshop- Malaysia Section
4. Accelerating Membership Development Drive and Leadership Training Programs at NITAP IEEE SB - Vizag Bay Section
5. IGen2020- Hyderabad Section
6. Renaissance- Kerala Section
7. Volunteer – Lead – Achieve Mission 2020- Bangalore Section
8. Advocating Post-COVID-19 Development in Student Membership Recruitment and Retention to Nurture Future Leaders for the IEEE Hong Kong Section and IEEE Worldwide- Hong Kong Section
9. SMELT(Section Membership Enhancement & Leadership Training)- Bombay Section
10. IEEE Melbourne Membership Development Drive- Victorian Section
11. Leaders hackathon- Islamabad Section
12. IEEE Bangladesh Section Student Membership & Leadership Summit- Bangladesh Section
13. Induction Program/ IEEE Virtual Boot Camp- Uttar Pradesh Section
14. IEEE Boost- Sri Lanka Section
15. English Course in IEEE ITB Student Branch - Indonesia Section

CONGRATULATIONS!

IEEE Region 10 MDC

Individual Benefits & Services for
promoting the member benefit & Services

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

Plan – Approach all Sections and Councils to allocate s
budget and plan activities for promoting individual bene
services (IBS)

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

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

The 5 best proposals:

Rank 1: Hong Kong Section

Rank 2: Karachi Section

Rank 3: Pune Section

Rank 4: Western Australia Section

Rank 5: Vizag Bay Section

Congratulations to the winning Sections for their good proposals in promoting IEEE member benefits and services!

www.ieee.org

IEEE
Advancing Technology
for Humanity

CONFERENCE CALL FOR PAPERS

CONFERENCE CALL FOR PAPERS

IEEE TENSYMP 2021
Connected Intelligence for Smart IT, Jeju, Korea

April 21 (Mon) – 23 (Wed), 2021

Advertise in our R10 Newsletter!

Conferences Call for Papers

Full page: USD200

Half page: USD100

Full page coverage and one eNotice broadcast: USD500

Advertisement from external companies

Full page: USD500

Half page: USD300

Online Banner Advertisements

1-month Banner: USD100

1-year Banner: USD1000

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

IEEE R10 TODAY

OCTOBER **20**
ISSUE **20**

IEEE R10 NEWSLETTER

IEEE
REGION **10**
NEWSLETTER

◈IEEE