[This page intentionally left blank]
CONTENTS

WELCOMING MESSAGES ............................................................................................................. 5

MESSAGE FROM IEEE REGION 10 DIRECTOR ........................................................................... 5
MESSAGE FROM IEEE R10 NEWSLETTER COORDINATOR.......................................................... 6

1. 2019 REGION 10 AWARDS RECIPIENTS .............................................................................. 8

INDIVIDUAL AWARDS .............................................................................................................. 8
ORGANIZATIONAL UNIT AWARDS .......................................................................................... 11

2. R10 PERSONALITIES OF THE MONTH ............................................................................... 17

R10 PERSONALITY OF THE MONTH – SHAIKH A. FATTAH ...................................................... 17
R10 YP PERSONALITY OF THE MONTH – ABHISHEK MAHESH APPAJI................................. 19
R10 WIE PERSONALITY OF THE MONTH – MINI ULANAT ...................................................... 21
R10 STUDENT PERSONALITY OF THE MONTH – AMESH GOMES ........................................ 22

3. ORGANIZATIONAL UNITS OF THE MONTH ..................................................................... 24

R10 LARGE SECTION OF THE MONTH – NEW SOUTH WALES SECTION ............................... 24
R10 MEDIUM SECTION OF THE MONTH – PUNE SECTION ...................................................... 25
R10 SMALL SECTION OF THE MONTH – MACAU SECTION .................................................... 27
R10 COUNCIL OF THE MONTH – CHINA COUNCIL ................................................................. 29
R10 SUBSECTION OF THE MONTH – SABAH SUBSECTION ..................................................... 30
R10 STUDENT BRANCH OF THE MONTH – CHENGANNUR COLLEGE OF ENGINEERING STUDENT BRANCH......................................................................................................................... 32

4. R10 EXCOMM ARTICLES .................................................................................................... 34

NEWLY-FORMED R10 AFFINITY GROUPS ................................................................................... 34
R10 EDUCATIONAL ACTIVITIES COMMITTEE (EAC) UPDATES ........................................... 35
R10 PROFESSIONAL ACTIVITIES COMMITTEE (PAC) INAUGURAL PILOT PROJECTS ............ 36
IEEE REGION 10 CONFERENCE LEADERSHIP PROGRAM .................................................. 38
IEEE WIE INTERNATIONAL LEADERSHIP SUMMIT 2019, BANGALORE............................ 39
IEEE WIE INTERNATIONAL LEADERSHIP SUMMIT 2019, BEIJING .................................... 41
COLLABORATING WITH INDUSTRY EVENT, IEEE MAKES A DIFFERENCE ....................... 43

5. SECTION/SUBSECTION/COUNCIL ACTIVITIES .................................................................. 46

BANGALORE SECTION .............................................................................................................. 46
HYDERABAD SECTION .............................................................................................................. 47
ISLAMABAD SECTION .............................................................................................................. 48
INDONESIA SECTION .............................................................................................................. 49
KARACHI SECTION ................................................................................................................ 50
BOMBAY SECTION ................................................................................................................ 51
MALAYSIA SECTION .............................................................................................................. 52
SRI LANKA SECTION ............................................................................................................. 53
BAHAWALPUR SUB-SECTION .................................................................................................. 54

6. AFFINITY GROUPS (WIE/YP/LMAG/CNAG) ACTIVITIES ............................................... 57

SENDAI SECTION WIE AG ................................................................................................... 57
MALAYSIA SECTION WIE AG ................................................................................................ 57
KARACHI SECTION YP AG .................................................................................................... 58
SRI LANKA SECTION YP AG .................................................................................................. 59
7.   STUDENT BRANCH ACTIVITIES ..................................................................................................................................................61

Pakistan Institute of Engineering and Applied Sciences (PIEAS) Student Branch [Islamabad Section] ........................................61
Pakistan Institute of Engineering & Applied Sciences (PIEAS) WIE AG [Islamabad Section] ....................................................61
Capital University of Science & Technology (CUST) Student Branch [Islamabad Section] .........................................................62
COMSATS University Islamabad (CUI) RAS Student Chapter [Islamabad Section] .................................................................62
COMSATSUniversityIslamabad(LJ)WahCampusCS Student Chapter [Islamabad Section] ......................................................63
Bahria University Karachi Student Branch [Karachi Section] ......................................................................................................63
Cummins College of Engineering for Women Student Branch [Nagpur Subsection] .................................................................64
General Sir John Kotelawala Defence University (KDU) Student Branch [Sri Lanka Section] ....................................................64
Sri Lanka Institute of Information Technology (SLIIT) Student Branch [Sri Lanka Section] ........................................................65
University of Peradeniya Student Branch [Sri Lanka Section] ..................................................................................................65
National School of Business Management (NSBM) Student Branch [Sri Lanka Section] ..........................................................66
Sri Lanka Technological Campus (SLTC) Student Branch [Sri Lanka Section] ........................................................................67
University of Moratuwa Student Branch [Sri Lanka Section] ....................................................................................................67
University of Kelaniya Student Branch [Sri Lanka Section] .......................................................................................................68
The Open University of Sri Lanka (OUSL) Student Branch [Sri Lanka Section] ......................................................................68
RajarataUniversityofSriLankaStudentBranch [Sri Lanka Section] .........................................................................................69
University of Ruhuna Student Branch [Sri Lanka Section] .......................................................................................................69
University of Colombo School of Computing (UCSC) CS Student Chapter [Sri Lanka Section] ..............................................70
Uva Wellassa University Student Branch [Sri Lanka Section] ................................................................................................71

8.   AWARDS AND FUNDING .......................................................................................................................................................73

2019 MGA Outstanding Section Award Recipients ..................................................................................................................73
2019 IEEE Regional Exemplary Student Branch Award Recipients ............................................................................................74
2019 IEEE R10 Postgraduate Research Paper Contest ..............................................................................................................75
Call for Nominations: IEEE MGA Awards .................................................................................................................................76
IEEE HAC Conference Participation Program ........................................................................................................................77

CONFERENCE CALL FOR PAPERS .........................................................................................................................................79
Dear IEEE Region 10 Members,

We are coming to the last quarter — when we must accomplish our activities planned for the year 2019.

This quarter we have two big regional conferences scheduled: TENCON 2019 in the Kerala Section, and our R10-HTC in the Indonesia Section. I hope many of you are intending to take part in one or both of those conferences, whether to meet old friends and/or make new ones. Similarly, there are a lot more local events happening around you. Please check your Section web-pages now and find out what activities are going on in your particular area.

I am delighted to announce the 2019 IEEE Region 10 Award Winners. Thanks to Elmer Dadios (R-10 Awards and Recognition Committee Chair) and his group, together with the various R-10 Activity/Program Committees, Region 10 has chosen sections, groups, and individuals who rendered excellent services and made real contributions this year. Our Region 10 is supported by many such outstanding people, but we need more of them. So, please nominate more such persons next year to fill all relevant positions and posts (https://www.ieeer10.org/awards-recognition-committee/).

The last quarter of the year is the period for some of our organizational units to hold elections for 2020. Please do consult the MGA Operations Manual in order to prepare.

Taken as a whole, Region 10 is also planning for 2020. All Executive Committee members will continue to serve next year. We will convene a Region-10 Executive Committee meeting in January, and then a Region 10 AGM in March. Three other flagship conferences are scheduled as follows:

- TENSYMP 2020 in June (Bangladesh Section)
- TENCON 2020 in November (Japan Kansai Section)
- R10 HTC 2020 in December (Sarawak Subsection of the Malaysia Section)

In 2020 Region 10 will hold a Biennial Event, the R-10 SYWL Congress, where Students, Young Professionals, Women in Engineering, and Life Members get together to interact for better understanding and collaboration. We have chosen Bangkok (Thailand Section) as venue. I am convinced that collaboration of this nature across various groups will greatly benefit all of us.

One more important Triennial Event involving the whole of IEEE is slated for next year: IEEE Sections Congress 2020 to be held in August in Ottawa, Canada. This is an event for Section Leaders to learn more about IEEE in general, good practices as followed in other sections, and a number of other useful and interesting features.

I always feel how time flies, more especially so in the last couple of months of any year. It will be required as usual that I sit down and conduct a year-end review. I hope you will be finishing out the year with flying colors.

With all best regards,

Akinori NISHIHARA
IEEE Region 10 Director
Message from IEEE R10 Newsletter Coordinator

Dear Region 10 Members,

It is my pleasure to welcome you to the third edition of IEEE Region 10 Newsletter for 2019. For this issue, we have received around 50 activity submissions from various organizational units. We would like to thank all these units for their contribution to this newsletter.

The third newsletter of the year continues the *Personalities of the Month* and *Organizational Units of the Month* columns introduced for the first time in the last edition. We have another four Region 10 personalities, who have kindly agreed to contribute for the column, sharing their experience and involvement with IEEE and Region 10. We also have another six Region 10 organizational units who have agreed to contribute articles on the history and the latest activities in their respective unit. I am very grateful to have received tremendous support from the invited units and volunteers for their high-quality submissions, and I hope to continue receiving similar support from others when we approach them for future editions.

This issue also features an article on the recently announced 2019 IEEE Region 10 Award Recipients. We would like to thank all the award recipients for providing us with their biographies to be included in the article within a short time frame. Congratulations to all the deserving winners.

I would also like to welcome our newest member in the newsletter committee, Ms. W. M. Wathmini Sharika Jayalath, whose biography is included at the end of this message. Ms. Wathmini is replacing one of our newsletter committee members, Ms. Sachini Ekanayake who is pursuing her graduate studies at the University of Albany SUNY, USA starting this fall. I wish to place a special thanks to Ms. Sachini for her tremendous help in preparing for the first two issues of the newsletter this year, and wish her all the best in her graduate study. Finally, a special thanks also to all the other R10 newsletter committee members for their incredible efforts in preparing this third edition. And thanks again all of you for your support.

With best regards,

Mohammad Faizal Ahmad Fauzi
Chair, IEEE R10 Newsletter Committee

**W. M. Wathmini Sharika Jayalath**

Graduated with B.Sc. (Honours) Eng. Degree specializing in Electrical & Electronic Engineering in 2018 from University of Jaffna, Sri Lanka, she worked as a junior electrical engineer at E-Net Integrated solutions (Pvt) Ltd. Currently, she is pursuing her higher studies in electrical engineering field. She published various aspects of her undergraduate research project in IEEE 9th International Conference on Information and Automation for Sustainability (ICIAFS) 2018 and 2nd National Undergraduate Research Symposium 2019, Sri Lanka. She has been selected as a committee member for IEEE StudPro 3.0 Career Fair 2019. She started her volunteering career in IEEE from student branch level and recently, he extended it into international level. Currently, she is contributing towards the regular release of the IEEE Region 10 Newsletter.
1. 2019 REGION 10 AWARDS RECIPIENTS
Prepared by: Mohammad Faizal Ahmad Fauzi, Chair for IEEE R10 Newsletter Committee

As IEEE Region 10 continue to nurture and develop strong awards and recognitions program to promote outstanding volunteer services and contributions, R10 Award and Recognition Committee (ARC) and R10 Activity /Program Committee have worked conscientiously over the past few months to select worthy recipients for several R10 awards. Please join us in congratulating all the award recipients for their excellence achievement.

R10 OUTSTANDING INDIVIDUAL AWARDS

R10 Outstanding Volunteers Award

Subhas Chandra Mukhopadhyay - in recognition of outstanding contribution and services to the IEEE New South Wales Section and IEEE Region 10

Subhas is working as a Professor of Mechanical/Electronics Engineering, Macquarie University, Australia and is the Discipline Leader of the Mechatronics Engineering Degree Programme. He is also the Director of International Engagement for the School of Engineering. He is a Fellow of IEEE (USA), IET (UK) and IETE (India); a Topical Editor of IEEE Sensors journal and an AE of IEEE TIM. He is a Distinguished Lecturer of the IEEE Sensors Council from 2017 to 2019. He is also the Founding Chair of the IEEE IMS New South Wales Chapter and IEEE New South Wales Sensors Council Chapter.

Jong Chang Yi - in recognition of outstanding contribution and services to IEEE Seoul Section and IEEE Region 10

Jong Chang Yi is currently working as a Professor of Electronic and Electrical Engineering at Hongik University, Seoul, Korea, where he has served as a dean and director of the Metamaterials Electronic Devices Research Center and Wired & Wireless Optical Communications Research Center. He has served as IEEE Seoul Section Chair, Hongik University Student Branch advisor, IEEE TENCON 2018 general co-chair, board member of the Optical Society of Korea and a board member of LUMENS, Inc. Dr. Jong Chang Yi’s research focuses on photonic switches, multi-junction solar cells, LEDs, graphene device, and holographic optical elements.

Rajesh Ingle - in recognition of outstanding contribution and services to IEEE Pune Section and IEEE Region 10

Rajesh Ingle is Dean, Head, and Professor at the Department of Computer Engineering at Pune Institute of Computer Technology. He is a senior member of the IEEE, IEEE Communications Society, and IEEE Computer Society. He has served as Chairman for IEEE Region 10 Student Activities Committee from 2015 to 2018. He has also worked as Vice Chair, IEEE India council and President of PICT Alumni Association. He has been associated with various Boards of Studies in IT and CSE in various universities including Pune University and Shivaji University. He has guided more than 600 Projects at UG and PG level and published 60 research publications at various conferences and journals of national and international repute. He has also received 2014 IEEE Outstanding Branch Counselor award from IEEE.
R10 SAC Outstanding Volunteer Award

**Rajasvaran Logeswaran** - in recognition of outstanding contributions and services for SAC programs and to the IEEE Malaysia Section

Rajasvaran Logeswaran (M’98, SM’04) is a Professor, Head of the Asia Pacific Centre for Analytics, and Counselor of the IEEE Student Branch at the Asia Pacific University (APU), Malaysia. He was also Advisor of the IEEE Multimedia University SB. Over the years, he has actively contributed to organizing IEEE events such as IEEE ICSIPA, SCoReD, CITISIA, MICC, IPIARTI, SASSP, SPS Winter Schools, EduTours, IEEE SPS Research Excellence Awards, and many others. Logeswaran is currently the Chair of the IEEE Signal Processing Society (SPS) Malaysia Chapter, a Certified Chapter and three-time winner of the SPS Chapter of the Year Award.

R10 SAC Outstanding Student Volunteer Award

**Mohammed Hussein Saleh Mohammed Haram** - in recognition of outstanding contributions and services for SAC programs and to the IEEE Malaysia Section

Mohammed Hussein is currently an undergraduate student majoring in Electrical Engineering at Multimedia University (MMU), Malaysia. This final year student began his volunteering journey by joining IEEE Multimedia University Student Branch as a Vice-Chair in 2016. In 2017, he was elected as the Chair and the SB under his leadership has achieved 3 awards at university level, 3 awards at section level and 2 awards at R10 level, apart from his personal awards such as 2018 MMU Leader of the Year Award and R10 SAC Outstanding Student Volunteer Award. Mohammed has been Malaysia’s highest member recruiter for the past 4 years. Considering his outstanding contribution, he was elected as the 2019 Malaysia Section Student Representative.

R10 Educational Activities Outstanding Volunteer Award

**B. Premlet** - in recognition of outstanding contribution and services for educational activities to the IEEE Kerala Section

Dr B. Premlet, a retired professor and former HOD of Physics from TKM College of Engineering, Kerala, India, is a science writer, activist in popularizing science and also a documentary filmmaker. Dr. Premlet is a senior member of IEEE and the current chair of Educational Activities Committee of IEEE Kerala Section. Apart from this, he is also a member of Acoustical Society of India, Indian Association of Physics Teachers, and Indian Society for Technical Education.

R10 HAC Outstanding Volunteer Award

**Celia Shahnaz** - in recognition of outstanding contribution and services for humanitarian technology activities to the IEEE Bangladesh Section
R10 WIE Outstanding Professional Volunteer Award

Takako Hashimoto - in recognition outstanding contributions and services to WIE program and to the IEEE Tokyo Section

Takako Hashimoto graduated from the Ochanomizu University, and received a Ph.D. in computer science from the Graduate School of Systems and Information Engineering, University of Tsukuba. She has worked at the software R&D center of Ricoh Co. Ltd. in Japan for 24 years. Then, she worked as a Professor in Chiba University of Commerce. Presently, she is the Vice-President of Chiba University of Commerce, and the Director of International Center. She is a Board Member of the Database Society of Japan & IEEE Japan Council and a Member of Science Council of Japan (SCJ). As an IEEE Volunteer, she served as IEEE R10 Women in Engineering Coordinator from 2011 to 2014 and IEEE Women in Engineering International Committee Chair in 2015-2016. She has also served as Chair for IEEE MGA Membership Recruitment and Recovery Committee in 2016-2017. Currently, she is serving as IEEE R10 Secretary.

R10 YP Outstanding Volunteer in Academic Award

Abhishek Appaji

Abhishek Mahesh Appaji is an Assistant Professor at the B.M.S. College of Engineering, India (B.E-Medical Electronics; M.E-Bioinformatics & completing PhD: Maastricht University, NL). He is a winner of the Massachusetts Institute of Technology (MIT) Global Entrepreneurship Bootcamp. Abhishek is now a Senior Member of IEEE, Chair of IEEE YP Bangalore (2017-2018), Joint Secretary/SIGHT Chair of IEEE Bangalore Section, Treasurer for TEMS-Bangalore, VC-YP for TEMS-India and YP lead/MD for PES Bangalore. Abhishek has received funding from Indian Government, IEEE and abroad. Abhishek has worked as researcher at CeNSE, IISc, India. He has over 50 international/national journal publications/conferences. He has delivered 130+ invited talks in conferences, forums, events and have received many prestigious awards globally.

Abhishek Appaji is being featured as the IEEE R10 YP Personality of the Month in this issue.

R10 YP Outstanding Volunteer in Industry Award

Abey Easow Joseph

Abey Easow Joseph is working as a Product Manager at Entri.app, an education technology company based out of Kochi, Kerala, India. Earlier, he had worked as a Project Manager. He graduated from the College of Engineering Chengannur, which is one of the most vibrant student branches in Region 10. He is an IEEE member and has been an active volunteer for the past 9 years. Currently, he is also the Membership Development Chair and Awards Committee Convener of IEEE Kerala Section. He is a recipient of 2018 IEEE Kerala Section Outstanding Young Professional Volunteer award.

R10 WIE Outstanding Student Volunteer Award

Misbah Hassan Abbasi - in recognition outstanding contributions and services to WIE program and to the IEEE Islamabad Section
Outstanding Large Section

Kerala Section - in recognition and appreciation of value services and contributions

IEEE activities in Kerala were formally initiated on 17th February 1975 as a subsection under the then India section. Kerala subsection became part of the Bangalore Section in 1976 upon the formation of India Council, and later, it became a full-fledged section on 11th November 1983, celebrating its 35th year of formation in 2018-2019. IEEE Kerala Section has been noted for its vibrant activities. Several innovations from IEEE Kerala Section in organizing activities for students as well as professionals were appreciated and replicated by the global IEEE community. Winner of MGA Outstanding Large Section Award 2015, Region-10 (Asia Pacific) Outstanding Large Section Award in 2004, 2009 and 2019, IEEE Kerala Section has been organizing high-quality, high-impact technical events including several international conferences in the recent past. Major events of 2018 were IEEE WIE ILS 2018, RAICS2018, IEEE Mini-POCO 2018 and Rescue and Rehabilitation Activities associated with Kerala floods 2018.

Outstanding Medium Section

Pune Section - in recognition and appreciation of value services and contributions

A very active and decade-old Pune Sub-Section was elevated to IEEE Pune Section in the year 2010. The section has been very vibrant since its inception and has picked up further momentum in the last 3 to 4 years. The section has 6 societies, 2 affinity group, 25 student branches and 1370 members including 61 senior members. The section has a good mix of professional and student members and has a very well-defined roadmap, which is revisited during every AGM. The section clearly defines its focus areas at the beginning of the year and accordingly drives its initiatives.

Pune Section is being featured as the IEEE R10 Medium Section of the Month in this issue.

Outstanding Small Section

Kharagpur Section - in recognition and appreciation of value services and contributions

IEEE Kharagpur Section was born as a subsection with 60 members under IEEE Kolkata Section in 1983, and later, on 13th May 1985 it was recognized as the IEEE Kharagpur Section. Since then it has been experiencing a steady growth in membership with more than 400 members including 1 Fellow, 40 Senior Members, 130 Members, and 2 Life Senior Members as of 2018. This Section currently hosts and nurtures the CSS, EMBS, and SPS chapters as well as the WIE and YP affinity groups. It also hosts the IEEE Student Branches of IIT Kharagpur, Haldia Institute of Technology and the National Institute of Technology Durgapur. In 2018, the Section organized 59 Technical and 12 Administrative meetings and technically co-sponsored the IEEE International Conference on Industrial and Information Systems (ICIIS 2018). Section members uphold IEEE principles of advancing technology by serving on the Editorial Boards of various IEEE Transactions, Journals and Periodicals.
Large Section Award

Victorian Section
The IEEE Victorian Section was founded in 1975 as a subsection of the Australian Section and became an independent section in 1983. This section serves more than 2000 members of IEEE. There are 17 chapters and affinity groups covering topics of interest such as Engineering in Medicine and Biology, Social Implications of Technology, Women in Engineering and Young Professionals. The Victorian Section also comprises of numerous student branches, who organize their own events related to student leadership and technical advancement.

Medium Section Award

Sendai Section
The IEEE Sendai Section was established in 1999. Every year in their annual academic convention, student sessions have been organized and several excellent papers were selected for "Sendai Section Student Awards". These awards foster and encourage the student activity, which have led to the increase in number of student members. In fact, the renewal rate of the student members is 73.0% in July 2019, and the increase in active student members is 27.7%.

Small Section Award

Macau Section
Established in 2003, IEEE Macau Section has been developing quite fast in recent years. This section is composed of members from universities and industries, and quite active in promoting new technologies application in Macau with the objective to push the development of Macau. Macau Section has over 220 IEEE members, with 9 chapters and joint chapters, and 2 student branches. Every year, the section organizes seminars, technical visits and conferences actively along with local societies. The student branches also organize various technical competitions.

Macau Section is being featured as the IEEE R10 Small Section of the Month in this issue.

Large Section Award

Guangzhou Section

Medium Section Award

Pune Section

Small Section Award

Gwangju Section
First Place

A. D. Patel Institute of Technology, Gujarat Section - in recognition and appreciation of value services and contributions

IEEE Student Branch of A. D. Patel Institute of Technology (STB64801) was established in the year 2008 and has 189 members at present. The SB is dedicated for the professional development of students with advanced technical support from IEEE adjoined in closed-loop with various society chapters, affinity group, and special interest group namely CS, NPSS, PES, IAS, PELS, RAS, WIE, and SIGHT. 29 events in 2018 and 15 events in 2019 were organized by the SB at the national and international levels. In 2019, the SB received the Best Student Branch Joint Winner Award from IEEE Gujarat Section, IEEE R10 SAC Outstanding Student Branch Award, IEEE R10 Exemplary Student Branch Award, IEEE Outstanding Branch Counselor and Chapter Advisor Award and three of its members received Richard E Merwin scholarships.

Second Place

UCET - The Islamia University of Bahawalpur, Lahore Section - in recognition and appreciation of value services and contributions

IEEE was initiated in South Punjab, Pakistan on 25th March, 2010 when an IEEE Student Branch was established in the University College of Engineering & Technology (UCET) at the Islamia University Bahawalpur (IUB). IEEE UCET IUB Student Branch has an excellent track record by organizing events such as BSSYWC’16, BSSYWC’19, SPAx’18, SPAA’19, HAC, and YP Meetup. It has won many awards at the section and regional level including the 2015 Region 10 Best Student Branch Award. At present, the SB has 6 chapters (SPS, ComSoc, PES, IAS, SMCS, EMBS) and 1 Affinity Group (WIE), with 55 Active members.

Third Place

Dr. Akhilesh Das Gupta Institute of Technology and Management, Delhi Section - in recognition and appreciation of value services and contributions

IEEE Student Branch of Dr. Akhilesh Das Gupta Institute of Technology and Management (ADGITM), formerly known as IEEE NIEC, is the youngest SB of IEEE Delhi Section, being established in 2005. The SB been very dynamic and versatile with excellent performance and accomplishments. Mr. Gaurav Verma is the SB counselor of the SB, which was awarded the R10 Student Activities Committee Outstanding Student Branch Award.
R10 YP Outstanding Section Affinity Group Award

IEEE Islamabad Section Young Professionals Affinity Group - in recognition and appreciation of value services and contributions

Established in 2012, IEEE Islamabad Young Professionals AG provides young and upcoming professionals with opportunities and platform to showcase their talents and gain an insight into the professional world. Recently the group received the IEEE R10 Outstanding Young Professional AG Award 2019. The key activities of YP AG include networking opportunities by engaging members in different meetup programs, bridging the gap between industry and academia, professional development trainings, skill development workshops, Teachers-in-Service Program (TISP) and activities like STEP to encourage young professionals to evaluate their career goals, polish their professional image and create the building blocks of a lifelong and diverse professional network.

R10 WIE Outstanding Section Affinity Group Award

IEEE Kerala Section WIE Affinity Group - in recognition and appreciation of value services and contributions

IEEE Kerala Section WIE AG was formed in 2002, and SB WIE AG at College of Engineering, Chengannur in 2004. They are credited as the first WIE AG and the first WIE SB AG of R10. In 2018, the most significant accomplishment was the conduct of the WIE International Leadership Summit (ILS) Kochi 2018. Apart from the successful conduct of WIE ILS, 175 events were conducted in 45 student branches. IEEE Kerala WIE AG is the recipient of 2019 R10 WIE Outstanding Section Affinity Group and selected as the winner of the 2019 WIE Affinity Group by WIEC.

R10 WIE Outstanding Student Branch Affinity Group Award

Universiti Sains Malaysia WIE Student Branch Affinity Group, Malaysia Section - in recognition and appreciation of value services and contributions

The IEEE Universiti Sains Malaysia (USM) WIE Student Branch Affinity Group was founded on 27th October, 2016 with the passion to prepare, develop and inspire more female engineers in the campus. IEEE USM WIE has been envisioned to connect female engineering students with women industry leaders. The AG was chaired by Shum Kar Yen from 2016 till 2018, with the current chair Lee Chu Yu being appointed at the beginning of 2019. The advisor for the group is Associate Professor Ir. Dr. Rosmiwati Mohd Mokhtar. Being a three-year old student affinity group, the IEEE USM WIE has made excellent progress and has been actively involved in various activities ranging from technical, professional, industrial relation, social and many more.
R10 Education Activities Outstanding Group Award

Malaysia Section Educational Activities Committee - in recognition and appreciation of value services and contributions.

The Malaysia Section Educational Activities Committee initiated a collaboration with the Ministry of Education (MOE) Malaysia to help improve STEM teaching and learning in local schools. Through this initiative, the Teacher-In-Service-Program (TISP) is leveraged to train IEEE volunteers who will in turn train school teachers in enhancing STEM education. MOE invited the committee to organize TISP workshops at their STEM colloquium in Sabah, Kelantan and Perak, where 20 school teachers were trained in each workshop. Then, in conjunction with the IEEE R10 TISP Week, IEEE Malaysia Section and MOE co-organized the IEEE MALAYSIA TISP-KPM STEM Initiative in Kuala Lumpur to train more than 200 school teachers. Besides this initiative, the committee also organized the annual Leadership Camp and NetSuite Workshop for chapter officers, as well as introducing Malaysia Section’s own EA fund to support local units in conducting educational activities.

R10 HTA Outstanding Section Award

Pune Section - in recognition and appreciation of value services and contributions

A very active and a decade-old Pune Sub-Section was elevated to IEEE Pune Section in the year 2010. This section has been a very vibrant section since its inception and has picked up further momentum in the last 3 to 4 years. The Special Interest Group (SIG) for Affordable Agriculture (AA) has set up AA labs in six engineering institutions. The section is also partnering with two NGOs in the drought-prone area of Marathwada to encourage collective and eco-friendly farming. This initiative has been funded by IEEE HAC and IEEE Foundation.

Pune Section is being featured as the IEEE R10 Medium Section of the Month in this issue.
R10 PERSONALITIES OF THE MONTH
2. R10 PERSONALITIES OF THE MONTH

R10 Personality of the Month – Shaikh A. Fattah

Bangladesh Section

Dr. Shaikh Fattah is a renowned professor and outstanding researcher in Bangladesh. He received the Ph.D. degree in ECE from Concordia University, Canada and later he was a visiting Postdoctoral Fellow and Research Associate in the Department of EE at Princeton University, New Jersey, USA. He received the B.Sc. and M.Sc. degrees from BUET, Dhaka, Bangladesh, where he is currently serving as a Professor in the Department of EEE and Director of INPE. He has published more than 180 international journal and conference papers with some best paper awards. He delivered more than 50 keynote/invited talks in many countries and served as General Chair/TPC Chair of many international conferences. In his academic and research career, he received several awards and recognition, such as Concordia University’s Distinguished Doctoral Dissertation Prize (ENS), Dr. Rashid Gold Medal (MSc), URSI Canadian Young Scientist Award 2007 and BAS-TWAS Young Scientists Prize 2014.

In IEEE volunteer community, Dr. Fattah is a very well-known face from Bangladesh. He has been involved with IEEE for the last 19 years, serving as ExeCom member of IEEE Bangladesh Section for the last nine years in various positions such as MD Coordinator, Secretary, Vice-Chair, Chair and N&A Chair. In this article, we want to focus his magical contribution towards the transformation of IEEE Bangladesh Section. Since its inception in 1993, even until 2014, IEEE Bangladesh Section was a medium section with membership around 800 and 10 student branches. Because of his dynamic leadership as a Section Chair in 2015-2016, Bangladesh Section became a large potential section within two years. Sixteen new student branches were formed and membership was increased more than three times. IEEE recognition for Outstanding Section Membership Recruitment Performance was received both in 2015 and 2016. He received 2016 IEEE MGA Achievement Award “for dynamic leadership in achieving rapid transformation of the IEEE Bangladesh Section into a vibrant large section by ensuring maximum member engagement through innovative activities.”

Among the long list of his innovative events, some notable events were: IEEE Pro-Talks 2015 (platform for professionals’ dialogue), SB ExeCom Summit 2015 & 2016, IEEE BDS Humanitarian Idea and App Contest 2016, YP Summit 2015 & 2016, launching several WIE AG student chapters, R10 events Counsellors Summit 2016 and University-Industry Collaboration 2016, as well as hosting external events like SS12: Code-A-Thon Challenge 2016, IEEE Xtreme and Int. Robotics Challenge. Moreover, several IEEE society student chapters and IEEE EMBS Chapter were launched in his tenure. Later he continued the initiatives to launch IEEE RAS, SSIT, CS, SPS, and IAS society chapters in Bangladesh and in many cases took the responsibilities of Chair/Vice-Chair of the chapters.

He gave special attention to maintain the quality of technical co-sponsored conferences. He launched IEEE BDS Mini-POCO and also organized R10 funded Mini-POCOs. During his tenure as Chair, first ever section sponsored conference IEEE WIECON-ECE 2015 was launched in Bangladesh which later rotates in various sections in every year. As an organizing chair, he made it a top class international conference with record number of foreign delegates, IEEE leaders and IEEE Fellows. He also took initiatives to start area specific conferences, like IEEE ICTP 2015 and MediTecc 2016.
He took the initiative to bid, and got approval, for organizing IEEE Region 10 Humanitarian Technology Conference (R10-HTC) 2017, the first ever region level international conference for Bangladesh Section. He played the pivotal role in materializing all works of this conference as a General Chair. He had taken the R10-HTC to a very high level with the presence of more than 700 participants from 12 countries and IEEE HAC funded IHTPC. He is also now in charge of Technical Program Committee Chair of IEEE TENSYMP 2020 to be held at Dhaka. He is still helping section to bring and organize global supported event, such as IEEE Foundation-funded Demystifying Nuclear Power Technology or IEEE PES technical sponsored event Smart City Initiative in Bangladesh.

Dr. Fattah is the founding member of Section’s IEEE SIGHT and has been leading several humanitarian projects with strong impact on our section volunteers. In recognition to his activities, Bangladesh Section received 2016 IEEE R10 HTA Outstanding Activities Award and Dr. Fattah won 2017 IEEE Region 10 HTA Outstanding Volunteer Award. Because of his profound experience, he has been selected in various Regional and Global IEEE committees. For example, during last four years, he has served seven different R10 Committees in various durations (Newsletter, Conferences & Technical Seminar, Humanitarian Technology, Education, Benefits, Awards). Because of his contribution in Bangladesh Section, he was awarded 2018 IEEE R10 Outstanding Volunteer Award.

He worked as a member of the Continuing Education Committee of IEEE Educational Activity Board (EAB) in 2017, and Educational Committee of IEEE SIGHT in 2016. He has been serving as member of Long Range Planning Committee of IEEE PES and Sustainable Development and Humanitarian Technology Committee of IEEE Society on Social Implications of Technology (SSIT). His role in IEEE PES as the Editor of PES Enews is being well appreciated all over the world. He has been serving as the Education Chair of IEEE Humanitarian Activity Committee (HAC) in 2018-2019. He is the Chair of IEEE PES-HAC. He is the Senior Member of IEEE and Fellow of IEB.

Dr. Shaikh Fattah is a magical motivator for inspiring IEEE volunteer activities. He himself loves to set examples by completing new challenging tasks as an inspiration to new volunteers. He is a true section leader as he was able to create young enthusiastic leaders in his section to carry out the works, who has successfully inspired a large number of people (more than 2000) to be involved in humanitarian activities utilizing their own technical capacity in various countries. It is an amazing effort by an Education Chair of IEEE Humanitarian Activity Committee (HAC) to take a challenge for delivering necessary fundamental education on humanitarian technology to targeted volunteer groups residing all over the world and inspire them to disseminate the knowledge among the people residing in their community. In his personal life, Professor Dr. Celia Shahnaz is his wife and they have a six years old son. Dr. Fattah has set an example of success among all IEEE volunteers in Bangladesh by virtue of his hard work and dedication to IEEE.
Abhishek Mahesh Appaji became an IEEE Member in 2009, when he was pursuing his Bachelor of Engineering in Medical Electronics from B.M.S. College of Engineering, Bangalore, India, with the objective of volunteering for IEEE EMBS Special Topic conference. He has been contributing as an active volunteer since then and has actively served in various capacities in Bangalore Section starting with Young Professionals Affinity Group (YP). He became vice-chair of YP in 2016. During this tenure, with the campaign and unique initiative #TechnicalWriteIndia, Abhishek organized workshops for college students and faculty in technical writing and publishing. More than 1000 participants have benefitted from these workshops, not only in India but also in neighboring countries in Region 10. He also reinforced various initiatives like STEP and TISP to the government school communities, with these being funded by IEEE MGA and/or Region 10.

His commendable efforts were recognized by the Bangalore section leaders and he was elevated as Chair of YP from 2017 to 2018. During this tenure, he strategized the activities to concentrate on four verticals namely Research, Entrepreneurship, Technology, and Industry readiness for the benefit of graduating students and young professionals. IEEE Bangalore Section was able to win IEEE YP Hall of Fame award in 2017. One event which won laurels (best event poster in R10 congress 2018) and appreciation in various IEEE forums was Make in India Entrepreneurship Bootcamp for 11 days. He shared his experience as a student at the Massachusetts Institute of Technology (MIT), USA on New Ventures Leadership in both 2017 and 2018.

He had also volunteered for various activities like All India Congress and several cutting-edge technical workshops on 5G, IoT, Blockchain, Deep Learning, Smart Cities and SmartTech. He has served as chair for special session/track for conferences such as IEEE SSCI 2018, COMSNETS 2019 and 2020, REV 2019, EMBS ISC 2018, etc. He has traveled to more than 20 countries all over the world and delivered more than 150 lectures and talks in future technologies in Biomedical Engineering as well as on IEEE and its benefits. His active involvement and tireless contribution in IEEE got him the prestigious IEEE MGA YP Achievement award in 2018. Because of Abhishek and his team's contribution, YP Bangalore was awarded Gold Medal in promoting highest student member to Young Professionals in 2018. His contribution has also resulted in his elevation to Senior Member of IEEE. Abhishek was also recently awarded with IEEE R10 Young Professionals Outstanding Volunteer Academic Award for 2019 in recognition of outstanding contributions to YP academic program in IEEE Bangalore Section.
Recently, he started and led an initiative called Student Innovation Fund (SIP) where annually ten humanitarian and community service projects are selected and funded by Bangalore Section. Another major event series he has been entrusted with is preparing IEEE volunteers for community support during a disaster. Along with other Section leaders, another unique initiative driven by him is “Walk and Breakfast with an IEEE Fellow”, which gives the members direct interaction with IEEE leaders. Abhishek has been actively securing funding for various initiatives of the Section. He has got several funded projects from various agencies in the field of Biomedical Engineering. He was elevated as Joint Secretary and SIGHT Chair for IEEE Bangalore Section. He is the Treasurer of TEMS Bangalore Chapter and YP representative of TEMS India. He is also YP lead, webmaster and Membership Development chair of IEEE PES Bangalore Chapter. Recently, Abhishek got funding from R10 for organizing POCO and is the General Chair for a major event funded by IEEE SPS Winter School [https://attend.ieee.org/sps-wsbmsip/] to be held in November 2019.

Currently, Abhishek is working as Assistant Professor at B.M.S. College of Engineering, India and also into a venture of his own in MedTech Space. He is a mentor for many startups in India and abroad. It is indeed praiseworthy that in less than 10 years as an IEEE member, Abhishek has made a significant impact in his professional and personal life.

*Receiving the IEEE MGA Young Professionals Achievement Award from Prof. Jose F Moura, IEEE President & CEO, 2019*
Dr. Mini Ulanat, Chair for IEEE Kerala Section WIE AG is a technology leader having more than 3 decades of experience in the area of Information Management. Working as the Systems Manager of Cochin University of Science & Technology (CUSAT), she has rich multifaceted experience in IT, covering areas of Software, infrastructural development, implementation and management of enterprise IT projects. She has successfully managed and delivered business transformation/change projects with particular focus on Academic Information System. She holds a doctorate in Computer Science from Cochin University of Science & Technology. Her association with IEEE started during her undergraduate student days and since then has been contributing in various capacities. IEEE has provided her a platform to stay connected, and actively engage with researchers across the globe and serve the community. Professionally she is active and engaged in many ways.

Prior to this, she was the Chair for IEEE Kochi Subsection, where she was a founding member. She has coordinated and organized multiple local and regional-level events, some exclusively for WIE professionals like Kerala Women in Engineering Summit with three tracks namely Women in Computing, Women in Leadership and Women in Technology. These programs helped increase the visibility of WIE in Kerala, and helped in growing the WIE membership base. She was the organizing chair of WIE International Leadership Summit held in Kochi in 2019. IEEE Kerala Section WIE AG is the winner of the Outstanding WIE Affinity Group of the Year Award 2019. She was recognized as the best volunteer of the Kochi subsection and Kerala Section. Mini is a recipient of MGA Achievement award as a member of E-Scientia Project Team for engaging members and promoting science, technology, and IEEE among pre-university students through a hands-on science center exhibit. Another unique initiative under her leadership is ‘Shastra Vismaya’ for school going children in the age group 10-15 years jointly organized by IEEE Kerala Section and Dept. of Social Welfare, Govt. of Kerala. The main focus of this event is to inculcate interest towards science and engineering among students of the Government shelter homes.

Dr. Mini has held key technology and executive management leadership positions in other professional organizations also. She is recognized as a panel expert and is an invited speaker, resource person, panelist and jury in several eminent conferences, national and international. Her areas of interest include Information Security, Information Retrieval, Ontology Development, and Social Network Analysis. Dr. Mini Ulanat has many awards and accolades to her credit. She was a Chevening Fellow in Cyber Security and Information assurance and was trained in Defence Academy, U.K. She was a Fulbright scholar and was a visiting researcher at Virginia Tech. She has also received CICC Scholarship, sponsored by Ministry of Information Technology and Industries, Govt. of Japan. As part of the Information Resource Management team of Cochin University, she has undergone training in Technical University Delft, The Netherlands.

An information scientist by profession, networker of grassroots and formal knowledge by passion, she is a leader and an equity activist in her community, who enjoys working with diverse group of people at organizations which are inclusive and innovative. Her off-the-job interest is evangelizing the Computer Culture with special emphasis on application of Information Technology for common man. She is philanthropically engaged by supporting organizations working towards making positive difference in the life of less privileged girls as a mentor and teacher. She is a resource person at all levels from community development programs at grassroots to the scientist of national institutions, involved in reshaping and continuing education programs to train and retrain outside traditional channels using innovative techniques. She is a huge fan of travel and the outdoors.
R10 Student Personality of the Month – Amesh Gomes

Malaysia Section

Amesh Gomes is currently a student at Universiti Putra Malaysia (UPM), Malaysia in the final year of Bachelor’s Degree in Electrical and Electronic Engineering. He has been an active IEEE student member and volunteer since 2017. His contribution to IEEE began in his first year of membership as an executive committee member at the IEEE UPM Student Branch (SB). As a member of the SB committee, he has organized several events and volunteered at the 2017 IEEE Malaysia Section Leadership camp, 2017 WIE International Leadership Summit and 2018 Malaysia Section AGM. He has represented Malaysia Section at ANZCON 2017 wherein he invited a delegation from Indonesia to the IEEE Malaysia Student Congress 2017.

These efforts resulted in him being elected as the chairperson of UPM SB and the Section Student Representative (SSR) of Malaysia Section for the year 2018. In that capacity he led a committee to successfully conduct a number of technical talks, humanitarian activities, workshops, and seminars. As SSR of Malaysia Section, he organized the 2018 Malaysia Section Student Congress with participation of 20 student branches and multiple joint SB activities to improve activeness of student branches across Malaysia. He also represented Malaysia at the SYWL congress in Bali in 2018.

Subsequently, he was re-elected as the chairperson of IEEE SB of UPM for 2019. The SB organized various activities along with the WIE AG and the PES Student Chapter at the university. He is currently a Student Branch and Chapter Coordinator of Region 10 as part of the R10 Student Activities Committee (SAC) 2019. Being a volunteer in the R10 SAC team, he has initiated a joint student branch project as a solution to revive inactive student branches in R10. As part of this project, the Joint SB Initiative Fund 2019 was created for Sections in R10. This fund has approved 13 projects, which impacts more than 50 SBs in Region 10. As a member in the R10 SAC team, he is also part of the committee of the ongoing projects; R10 Leadership Training and Membership Development Fund 2019 and the R10 Student Ambassador Program.

He hopes to inspire students to be more active in IEEE, which will in turn help them to provide a foundation to achieve their goals in life and shape their personalities during the time of learning.
R10
ORGANIZATIONAL UNITS (OU) OF THE MONTH
3. ORGANIZATIONAL UNITS OF THE MONTH

R10 Large Section of the Month – New South Wales Section

Prepared by: S. Nikolic, Chair for New South Wales Section

IEEE New South Wales Section was established as the Australian Section in 1972. From 1983 onwards, various sections were formed in Australian states and in 1985 the Australian Section was renamed as the New South Wales (NSW) Section and the Australia Council was formed. In February 2019, NSW Section reached a membership milestone of 3,000.

The capital city of New South Wales is Sydney, a popular destination for many IEEE conferences and events. In 2017, Sydney was the host city for the IEEE Sections Congress. The NSW Section has been steadily growing its membership base by focusing on a number of targeted initiatives.

One key area of focus has been to improve the support networks and funding opportunities for student branches. As students are a vital component of the Section’s future, substantial efforts have been made to provide leadership training, open communication channels, encourage greater responsibility, reward initiative & success, streamline processes, and provide clear pathways to funding. These efforts have resulted in effective and active student branch committees. The section has also rendered outstanding support to IEEE Xtreme, an effective draw card for attracting student membership.

A second focus area has been membership value. The committee has been working on implementing initiatives that provide local value to membership. The greatest success on this front has been the section’s approach to encourage members to come out of their silos and unite. This in particular has been achieved through the NSW UNITE event now in its second year, bringing together 200 members across all Chapters, Affinity Groups and Student Branches to network and collaborate under one umbrella.

A third area of focus has been on improving communications. The Section has streamlined e-notice communication, upgraded & enhanced the website, and engaged with social media platforms like YouTube, Facebook (targeted at younger members) and Linkedin (targeted at attracting industry awareness).

The NSW Section has won several awards and accolades. Some of the recent achievements include:

- 2019 WIE Inspiring Student Member Award - Naila Muktar from Macquarie University
- 2018 R10 Best Membership Growth Large Section Award
- 2018 and 2017 IEEE Xtreme - University of Wollongong ranked first in Australia
- 2018 R10 1st Place Postgraduate Paper Contest Winner - Ali Lalbakhsh from Macquarie University
- 2017 Gold Medal: 2017 Outstanding Section Membership Recruitment and Retention Performance
- 2017 R10 1st Place Postgraduate Paper Contest Winner - Roy Simorangkir from Macquarie University
A very active and decade-old Pune Sub-Section was elevated to IEEE Pune Section in the year 2010. This section has been very vibrant since inception and has picked up further momentum in the last 3 to 4 years. The section has 6 societies, 2 affinity groups, 25 student branches and 1370 members including 61 senior members. The breakup is given in the tables given below:

<table>
<thead>
<tr>
<th>Name of Society</th>
<th>Number of members</th>
</tr>
</thead>
<tbody>
<tr>
<td>IEEE Computer Society</td>
<td>148</td>
</tr>
<tr>
<td>IEEE Communication Society</td>
<td>27</td>
</tr>
<tr>
<td>IEEE Education Society</td>
<td>23</td>
</tr>
<tr>
<td>IEEE Instrumentation &amp; Measurement Society</td>
<td>5</td>
</tr>
<tr>
<td>IEEE Power Energy Society</td>
<td>33</td>
</tr>
<tr>
<td>IEEE Industrial application Society</td>
<td>17</td>
</tr>
<tr>
<td>IEEE Women In Engineering</td>
<td>68</td>
</tr>
<tr>
<td>IEEE Young Professionals</td>
<td>328</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Type of Membership</th>
<th>Number of members</th>
</tr>
</thead>
<tbody>
<tr>
<td>Associate Member</td>
<td>17</td>
</tr>
<tr>
<td>Graduate student member</td>
<td>74</td>
</tr>
<tr>
<td>Life member</td>
<td>2</td>
</tr>
<tr>
<td>Life senior</td>
<td>2</td>
</tr>
<tr>
<td>Member</td>
<td>353</td>
</tr>
<tr>
<td>Senior Member</td>
<td>61</td>
</tr>
<tr>
<td>Student Member</td>
<td>857</td>
</tr>
<tr>
<td>Affiliate</td>
<td>4</td>
</tr>
<tr>
<td>Total</td>
<td>1370</td>
</tr>
</tbody>
</table>

The city of Pune is a global hub for high-quality education and building on the legacy of a country, home to the first University known to mankind. The city also hosts several nationally and internationally-recognized premier educational institutes. Pune attracts lots of talent due to the excellent weather and overall quality of life. It is a major center for Information Technology and IT Enabled Services (ITES) and has also evolved into a hub for the manufacturing and automobile industries. The city has a rich tradition of culture, arts and music which manifests itself through events such as Sawai Gandharva (annual gathering of Indian classical music maestros) and the Ganapati festival; both events attracts many international tourists to the city. Interestingly, the city is also activism-rich with many activists and NGOs passionately working towards various social causes which lends a unique culture to the city. These strengths made Pune an obvious choice as one of the pilots for Smart City Development, a key initiative of Government of India.
IEEE Pune Section has a limited geographical area covering Pune city. The rest of the areas surrounding the section’s jurisdiction falls under Bombay Section. However, the Section has converted this into an opportunity to grow qualitatively on multiple dimensions. The Section has a good mix of professional and student members. It is matter of pride for the Section to have many eminent members like Dr. Vijay Bhatkar and Mr. D M Tagare, Dr. Doke, Dr. Khurjekar, and others like them who have consistently provided guidance to the ExeCom and office bearers of the Section. The Pune Section has a very well defined roadmap which is revisited during every AGM.

The Section leadership ensures that the chosen focus areas are in alignment with the overall mission and vision of IEEE. The current focus areas of the Section are PuneCon (flagship international conference of the Pune Section), Affordable Agriculture and Stem to Steam. PuneCon attracts participation from all across the country and beyond in form of research papers, guest speakers and participants. The SIG for Affordable Agriculture (AA) has set up AA labs in six engineering institutes. The SIG is also partnering with two NGOs in drought-prone area of Marathwada region to encourage collective and eco-friendly farming. This initiative has been funded by IEEE HAC and IEEE Foundation. For “Stem to Steam”, the Section is working on evolving a cultural think-tank with a view to encourage interest in liberal arts and culture. The Kelkar Museum is leveraged as a platform for this initiative.

Other novel and useful section initiatives include Eureka (national-level technology dissemination contest for students) in which undergraduate engineering students encourage rural and urban school students to pursue higher education especially in the science & technology area. IEEE Pune Section Young Professionals (YP) Affinity Group has started IEEE Pune Mentoring Program, which aims to build a strong culture of mentoring in Pune. Young professionals and students can reach out to accomplished professionals to seek career guidance. Apart from one-on-one connect between the mentors and mentees, panel discussions are also organized. This initiative has been appreciated by the President of IEEE. Other interesting recent events include IEEE SPS Winter School, Design Thinking Workshop, Talk Series on Industry 4.0, Indicon, WIE Conference and International Hackathon in partnership with Austin City. More details can be found on the section website (www.ieeepunesection.org).
IEEE Macau Section was established on 14th November 2003. The official inauguration of the IEEE Macau Section was held on 17th February 2004. This event was graced by Arthur Winston, 2004 IEEE President, with Prof. Rui Paulo Martins as the Section Founding Chair. The Section has grown from less than 10 members in 1994 to 220 IEEE members to date. Moreover, there are 9 chapters and joint chapters, and 2 student branches established under the Macau Section. These include PE/PEL Joint Chapter, AP/MTT Joint Chapter, EMB Hong & Macau Joint Chapter, CAS Chapter, COM Chapter, SSC Chapter, SMC Chapter, RFID Chapter, IE Chapter, University of Macau Student Branch and Macau University of Science & Technology Student Branches. IEEE Macau Section has received the Outstanding Section Membership Recruitment and Retention Performance twice in the years 2016 and 2019, respectively.

In November 2015, IEEE Macau Section successfully organized IEEE TENCON 2015, the premier international technical conference of IEEE Region 10. Held annually since 1980, TENCON provides an important forum for researchers and engineers from the industry and academia to network and discuss new ideas and developments in emerging areas of electrical and engineering, computer science and related fields. TENCON 2015 attracted more than 400 participants from 32 countries. 2016 IEEE President-Elect Karen Bartleson and IEEE Region 10 Director Ramakrishna Kappagantu also graced the conference.
Macau Section along with its chapters regularly organizes seminars and other activities. One important seminar organized by Macau section was “Smart City and Internet of Things” held on 9th September 2019 in which experts from academia and industry presented the smart city technologies which suit the development of Macau.

Another large scale conference, the 11th IEEE PES Asia-Pacific Power and Energy Engineering Conference 2019 (APPEEC) will be held at The Parisian Macao, Cotai Central, Macau, China from 1st to 4th December 2019. The aim of this conference is to provide a premier platform for electrical engineers and researchers to present their innovations and to share experiences and ideas in power and energy engineering with experts and scholars from all around the world. Started in Wuhan in 2009, APPEEC is now an annual power engineering conference organized in Asia-Pacific Region.

Macau or Macao, is officially the Macao Special Administrative Region of the People’s Republic of China. Macau was formerly a colony of the Portuguese Empire, after Ming China leased the territory as a trading post in 1557. Portugal governed the area under titular Chinese sovereignty and authority until 1887, when it was given perpetual colonial rights for Macau. The colony remained under Portuguese control until 1999, when it was returned to China. Macau is the ninth highest recipient of tourism revenue and its gaming industry is seven times larger than that of Las Vegas in USA.

The intermingling of Chinese and Portuguese cultures and religious traditions for more than four centuries has left Macau with an inimitable collection of holidays, festivals and events. The biggest event of the year is the Macau Grand Prix in November when the main streets in Macau Peninsula are converted to a racetrack bearing similarities with the Monaco Grand Prix. Other annual events include Macau Arts festival in March, the International Fireworks Display Contest in September, the International Music festival in October and/or November, and the Macau International Marathon in December. Macau preserves many historical properties in the urban area, which includes many historic locations, which were officially listed as a World Heritage Site by UNESCO.
The origins of IEEE in China dates back to 1984, when the Beijing Section was first established. With the increasing number of Chinese members and the ever increasing number of IEEE Sections, the China Council was approved by IEEE headquarters in 2006. Presently there are 19,000 IEEE members and 8 Sections in China. The mandate of the China Council is to coordinate the daily affairs of Sections in mainland China and to actively promote the development of IEEE in China. The China Council is committed to sponsor and support all the activities of the Sections, technical chapters and student branches.

The China Council and IEEE Student Branch of Beijing Jiaotong University organized the Oxford & Cambridge Academic Program in August 2019. 10 Professors and 40 students participated in this program. The professors, who were from both China and United Kingdom (UK) had in-depth discussions on topics like how to cultivate and develop students’ creativity, how to train excellent engineers and how to commercialize scientific and technological achievements. The Oxford & Cambridge Academic Program was a great success and provided an excellent avenue for participants to absorb diverse educational ideas and cultural elements.

The British Professors marveled at the spectacular progress of science and technology in China and praised the activities of IEEE China Council for enabling a bridge of communication for scholars to share experience and learn from each other. The prestigious universities of Oxford and Cambridge have a great reputation for outstanding academic achievements and high quality of research undertaken in a wide range of science and arts streams. Students from China learnt about the lofty history and culture of these universities through this program. They also visited many premier scientific research laboratories and developed their academic and research skills.
IEEE Sabah Sub-section was formed on 18th November 2017, and conducted its first AGM meeting on 6th December 2017 under the chairmanship of Dr. Ismail Saad. The sub-section was formed with the core objective of knowledge exchange and sharing for the benefit of members in Sabah, as well as expanding collaboration with industry and academia for organizing technical workshops and seminars. The sub-section strives to organize activities related to societal missions, rural development and uplift of the poor through technology, ubiquitous healthcare, disaster management and sustainability. The sub-section has also been able to successfully promote IEEE activities among engineering and computer students in the region.

The first IEEE Sabah Sub-section AGM on 6th December 2017, under the guidance of Associate Professor Dr. Mohammad Faizal Ahmad Fauzi, 2017 Chair of IEEE Malaysia Section.

Sub-section members with Prof. Kukjin Chun IEEE R10 Director during his visit on 25th December 2017.
The Executive Committee for Sabah Subsection for 2018-2020 are as follows:

Chair: Assoc. Prof. Dr. Ismail Saad  
Vice Chair: Assoc. Prof. Dr. Muralindran Mariappan  
Secretary: Dr. Leau Yu Beng  
Treasurer: Dr. Yew Hoe Tung  
Executive Committee (Professional): Assoc. Prof. Dr. Kashif Nisar  
Executive Committee (Students): Dr. Kenneth Teo Tze Kin  
Executive Committee (Education): Dr. Renee Chin Ka Yin  
Executive Committee (Publicity): Dr. Tan Soo Fun  
Executive Committee (Community): Dr. Razak Mohd Ali Lee

Future Plans of IEEE Sabah Sub-Section

The subsection will collaborate with local or overseas industries in organizing technical workshop or seminars for knowledge sharing of the latest technology to the members staying in Sabah. Through collaboration in research and academic activities, it is foreseeable the subsection will establish good rapport with industry which will greatly benefit IEEE members. Other planned activities include:

- Membership drive
- Awards for active contributors and volunteers
- Industry support and sponsorship for events
- Operation fund support from IEEE Malaysia section
R10 Student Branch of the Month - Chengannur College of Engineering
Student Branch
Prepared by: Ganesh Sekhar, Chairman, IEEE CEC SB

The foundation of IEEE Student Branch of Chengannur College of Engineering (CEC) was laid in 1996, with the goal of bringing students up to pace with modern burgeoning technology, manifested itself to be a cornerstone for learning and seeking taller waves of technical knowledge for all its members. It started off strong, amassing tremendous support and became the third largest SB in Region 10 almost instantly in 1997 and continued to achieve great heights by raking in multiple Outstanding Student Branch awards. This SB presently 341 members strong, has earned many accolades, prominent among them the fact that it has kept up the legacy of functioning as an active branch since its inception for almost 25 years and counting.

IEEE Kerala Section is one of the most zestful sections of the IEEE Region 10 for its vibrant activities. Several innovations from IEEE SB of CEC in organizing activities for students have been appreciated and replicated by IEEE Kerala Section and global community. IEEE SB of Chengannur College of Engineering is composed of active student members and vibrant volunteers who are passionate to work for the SB. Different societies of the SB conduct weekly sessions for improving the technical as well as managerial skills of the members through activities such as Hour of Code. The participants are mentored by their skilled seniors. Developer Community (DevCom) and Robotics Community (RoboCom) are two technical communities that focus on providing constant enrichment in technical knowledge in its practical aspects to its members. With a peer-to-peer learning curve being the prospective factor, these sessions challenge its members by preparing them for a final project based on the acquired skills. Women in Engineering Affinity Group, (first in IEEE Region 10), celebrating its 15th year, also conducts regular sessions on different topics to indulge the girl students into technology. ISQIP-IEEE Student Quality Improvement Program has been held for the past 6 years at the SB to promote skill development and provide students with internships at leading startups in Kerala. Several students have used ISQIP as a platform to learn new skills and get mentorship from industrial experts. Since 2015, Robothon, a Robotic Hackathon has been organized with the theme “Robots for Humanity”.

When the state of Kerala was struck by a massive flood disaster in August 2018, the DevCom members of IEEE SB CEC rose to the occasion and contributed their might in developing keralarescue.in, which was the official government portal, co-founded by the then Chairman of the Student Branch. A critical flood situation of the same intensity and magnitude resurfaced in August 2019, and the volunteers of the SB took the initiative to create power banks from batteries, led by senior RoboCom members. Over a span of three days, the members assembled over 100 eco-friendly power banks, which were then sent to different districts of northern Kerala, where electricity was not available for the haunting time period. The experience and industrial exposure the members receive through the weekly sessions and events are noteworthy. As a result, several technical papers have been published by volunteers and members of the IEEE SB and they get several avenues to create their own projects. This healthy environment is made possible by the peer-to-peer learning eco-system of the SB where each member cooperates and educates each other. Thus, the combined and coordinated effort of the members keeps the SB triumphant and spurs it onwards to even greater feats.
R10
EXCOMM
ARTICLES
4. R10 EXCOMM ARTICLES

Newly-Formed R10 Affinity Groups

Prepared by: Emi Yano, R10 WIE Coordinator; Takuo Suzuki, R10 YP Coordinator; V Sankaran, R10 LMAG Coordinator

It is with great pleasure to announce the following affinity groups (1 WIE AG, 1 YP AG and 4 LMAG) in Region 10 newly formed in the year 2019.

Karachi Section WIE AG

Karachi Section WIE was established in March 2019 with Dr. Bushra Naeem elected as chair. The mission of the WIE is “to engage more women in WIE activities and enable them to network with other WIE affinity groups”. Towards this, Karachi Section WIE conducted an essay competition to encourage that women speak out on their issues at BUITEMS Quetta in June, 2019. Activities planned include member engagement activities of networking, WIE awareness drive and a STEM seminar in coming months.

Sendai Section YP AG

Sendai section YP AG was approved in June 2019 with Toya Kitagawa as chair. Efforts were underway from November 2018 for the launch of the AG with Toya Kitagawa participating in the Tokyo YP event. The AG aspires to organize events, workshops, discussions, etc. in Tohoku region and heighten activities for Young Professionals. Unlike Tokyo, activities in Tohoku are challenging because universities are located far away from each other. Nevertheless, young professionals in Tohoku as part of Sendai YP are advertising activities connected with academic conferences in the area. Plans for the future include a commemorative ceremony to celebrate the establishment of the YP and cross-disciplinary workshops.

Bangalore Section LMAG

Formed on 15 February, 2019, geocode LM00119 with Lawrence Jenkins as Chair.

Sendai Section LMAG

Formed on 20 March, 2019, geocode LM00979 with Koji Mizuno as Chair.

Hyderabad Section LMAG

Formed on 17 June, 2019, geocode LM00149 with Balasubramanian as Chair.

Thailand Section LMAG

Formed on 20 June, 2019, geocode LM00029 with Prasit Prapin as Chair.
R10 Educational Activities Committee (EAC) Updates

Prepared by: Lance Fung, Chair, R10 EAC

An IEEE EAC webinar titled, “Integrating Educational Activities in Student Branch, Section Events and Best practices” was held on 7th September 2019. The event received 95 registrations from Australia, Bangladesh, India, Indonesia, Japan, Malaysia, Pakistan and Sri Lanka. Registrants included Students, WIE, YP and Senior Members. The webinar covered topics such as organisation of IEEE, EAB, R10, EA resources and programs, in particular ILN and TryEngineering, R10 EA initiatives, SEOC Operation Manual, TISP week and sharing of best practices. Various queries were addressed during the webinar, which was organized by Purva Ekatpure and Aravindhan Anbazhagan. Some of these included:

1. **What are the opportunities for the Student Members to get involved in Educational Activities?**
2. **For arranging Educational Activities in SB, can we get support to invite distinguished lecturers to be the Chief Guest for the Event?**
3. **Could you throw some light on tryengineering.org and how it is helpful for pre-university students?**
4. **What are the funding opportunities available with IEEE EA?**
5. **What’s a better option: doing a one-day immersion activity with school students or continuous learning sessions?**
6. **Could you share some ideas how to kick start EA in our section?**

**TISP Week 2019 - [https://tispweek.ieee.org/](https://tispweek.ieee.org/)**

An exciting announcement for all IEEE members is that Region 8, Region 9 and Region 10 are joining forces to organize a significant educational event spread across 5 continents, i.e. Africa, Asia, Australia/Oceania, Europe and South America. The Teacher In-Service Program (TISP) enables IEEE volunteers to share their technical expertise and demonstrate the application of engineering concepts to support teaching and learning in science, mathematics, and technology disciplines. IEEE offers training workshops for its members on how to facilitate in-service programs for local teachers in order to help them with hands-on engineering lessons to their students. These lesson plans are aligned with education standards and they can easily be deployed in the classroom.

The TISP week is a program to facilitate the conduct of teacher training workshops in multiple Sections in the Region 8, Region 9 and Region 10 within the **last week of October 2019** (workshops may also be held outside the TISP week dates and still be considered as part of the TISP week program). Please refer to information on the TISP resources in the website: [http://tispweek.ieee.org](http://tispweek.ieee.org) and submit the application form at [https://forms.gle/jpYkRqMawu2hjHPY6](https://forms.gle/jpYkRqMawu2hjHPY6) by 30th of September, 2019.

For further details and queries, please contact Lanceccfung@ieee.org
R10 Professional Activities Committee (PAC) Inaugural Pilot Projects
Prepared by: Nirmal Nair, IEEE Region 10 PAC Chair

Through the March R10 Newsletter, we had shared the vision, objectives and project directions of R10 Professional Activities Committee (PAC). To reiterate they are: (1) Maintain and enhance members’ lifelong employability and career prospects, (2) Enhance the R10 PA process and leadership for professional activities, (3) Support R10 versions of SMARTech/HARDTECH & IEEE Future Directions workshops, and (4) Design events for members interested in reaching out for Government Activities & Technical Policy Activities.

The committee designed and initiated the inaugural R10 PAC Challenge proposals from Sections/Councils and affinity groups around new Professional Activities Committees of Engineers (PACE) initiatives/projects for funding. The invitations for these PACE initiatives were around three potential formats as described below:

- **R10 PA Challenge** – Proposals for initiatives targeted like lifelong learning (non-technical), communication/public speaking skills, developing consultant database etc. particularly for long-term members.
- **SMARTECH/HARDTECH** or IEEE Future Direction stand-alone workshops for enhancing R10 members’ career and lifelong learning needs.
- **PACE tracks or activities during R10 conferences** like TENCON, TENSYM and HTC.

We received 11 applications from seven R10 sections across the three categories i.e. R10 PA Challenge; SMARTECH/HARDTECH or IEEE Future Technology workshop, and; PACE track during R10 flagship conferences. The total asking amount requested to support these projects from R10 was US $15350. Our committee recommended five original innovative pilot proposals for R10 funding, approved by the R10 Director. The 2019 R10 PAC Selection Committee has made every attempt to address conflict of interests and ensure professional, ethical and fair conduct to the selection process. The unsuccessful applications not supported this year was primarily because of their better alignment with Educational Activities Committee (EAC) Challenge initiatives and not PAC.

**Highlights of the Funded 2019 R10 PAC Challenge Projects**

**2019 R10 PAC Challenge Winner USD $1000 (GOLD event):** A PACE event titled Professional Career Developments to be hosted alongside IEEE R10 Humanitarian Technology Conference (HTC) 2019 by IEEE Indonesia Section. This event is scheduled for 12 November and intended to be open to all IEEE members from Indonesia section and potentially non-members to deliver value and attract membership. In their application this event is described as a mini-conference that enables to learning about professional and career development from the IEEE/industrial experts and experienced scholars, catering to both local and international HTC 2019 attendees. The awarded fund amounts to about 36% of the total estimated budget for this event. Check out https://r10htc2019.org/ for details as they emerge. This initiative is being led by our IEEE Indonesia member, Ir. Chairul Hudaya. R10 PAC members will work closely with Chairul and his local team to form the program that aligns with the spirit and intention of our inaugural R10 PAC Challenge. For 2019, this event received the highest dollar amount and the PAC members have named this as the GOLD event. Best wishes to the organizing team.
2019 R10 PAC Challenge Winner USD $750: A PACE initiative titled “Workshop on IOT and Blockchain Technologies” was successful under the SOFTECH/HARDTECH or IEEE Future Direction workshop category which asked for about 75% of the program estimated budget funding through their application. This was to create the IEEE Queensland Blockchain & IoT Group (facebook fb.me/IEEEQLDBlockchainIoT). This PAC initiative is being led by Alexandra Posoldova as Chair and Matthew Hutchins as Vice-Chair. This newly formed PAC inspired group organised its inaugural event on topic How Emerging Technologies are Changing the World. The event was a 3 hour panel discussion with a short networking break. Invited panelists were pioneers and seasoned professionals among the top people in their respective industries and together they were aiming to separate the hype from tangible technologies of the future. The focus was on cutting-edge technologies and how they are affecting our everyday lives, economics and jobs now and in the future. The panel discussion was led by Matthew Hutchins. The event was co-organised with Engineers Australia who kindly provided their venue. Together 65 people attended the event out of which about half were IEEE members. Event link click here (embedded link). The next event in second half of October will be an interactive introduction to blockchain technology and its application as an immersive experience. The topic is “Certifying unique items on the Blockchain” and will demonstrate a real life use case that is exploring unique tokens with Augmented Reality.

2019 R10 PAC Challenge Winner USD $500: A PACE project titled “Refresh and Relaunch of New Zealand North Consultant Database” (embedded link) was successful under the PAC-challenge category to deliver value to special IEEE member groups like consultants and job-transition seekers. This New Zealand North section proposal states the project motivation as “Inclined in improvising the effective outreach of better career prospects and lifelong employability targets of PAC bringing benefits to wide range of IEEE members”. This upgrade is to be led by our 2013 R10 Outstanding Volunteer Awardee winner Peter Over, and planned to be undertaken between Oct 2019-Jan 2020 and the PAC award amounts to 25% of the total budgeted estimate to complete this project.

2019 R10 PAC Challenge Winner USD $500: A PACE project titled “IEEE Malaysia Open Day”” was successful for inaugural PACE event for Malaysia section. This event is scheduled for 12th October 2019, Saturday Time : 7:30am - 5pm; Venue: MaGIC, Cyberjaya; Admission : Free to All (embedded link) It is first time for PACE activities, and first time for and IEEE Open Day for Malaysia. The PAC award amounts to 19% of the estimated total budget. The intent is to continue this as an annual or bi-annual event if pilot is successful. For subsequent years the intent is for members to be more inclusive and attract non-IEEE for participation and sponsorship to conduct this event.

2019 R10 PAC Challenge Winner USD $450: A PACE project titled “Continuous Professional Development Seminar Series” was successful under the PAC-challenge category to initiate regular monthly event calendar for professional development for Queensland Section IEEE members. The proposal indicated that for inaugural 2019 year, there would be at least four seminars during July to November and the award amounts to 25% of the total budget. These seminars are to be held at different location to cater for the geographically spread members of Queensland section. Under this series, section plans to organized seminar that would enhance lifelong learning and employability of the members. Some example of the events are “Effective CV writing and interview tips”; “How to handle stress at work place”; “Career progression without compromising work-life balance”; “Effective public speaking”. An example of one such event advertised through vTOOLS available here (embedded link).
IEEE Region 10 Conference Leadership Program

A Region 10 Initiative

Written by Deepak Mathur, Director-Elect, IEEE Region 10

Conference quality and its management have always been the focus area of Region 10. To this end, IEEE Region 10 organized its first Conference Leadership Program (CLP) on 17th and 18th August 2019 in Goa, India. This program was attended by 42 delegates from different Sections of the Region 10 such as India, China, Bangladesh, Singapore, Indonesia, Japan, Malaysia and Australia. The program was aimed to train volunteers to effectively perform IEEE conference management.

An IEEE Conference is a knowledge-sharing, experience-sharing and networking event with high technical standards and huge expectations from participants. These technical conferences are organized to showcase research and innovations of experts for the benefit of the participants. Acceptance of technical research papers in IEEE Conferences and publication by IEEE commands a high respect in the engineering community, and IEEE Sections regularly receive many requests from the IEEE Organizational units and non-IEEE agencies for technical and financial sponsorship. Conference Leadership Program included expert talks from IEEE MCE and focused sessions with plenty of opportunities for participants to exchange ideas, success stories and challenges with other participating IEEE Volunteers and MCE experts. This program was designed to foster a sense of community and create a global support network. It also deliberated on dynamic issues associated with conference organizing such as current IEEE Conference Policies and themes selected to meet changing needs and advancements in technologies. This 2-day program discussed important issues and know-how related to organizing IEEE conferences in the changing scenario. Issues like ethical practices, Publications in IEEE Conferences and Journals, Bidding Society Conference were also discussed.

This program was designed to serve the needs of IEEE conference organizers. The course was tailor-made by MCE for Region 10 after having detailed discussion with Region 10 volunteers. A team of MCE led by Fred Schindler and assisted by Kevin Hanft, Jacqueline Sturdivant and Ray Borgone were the speakers in the CLP and they conducted very interactive sessions on variety of topics covering all aspects of Conferences. Anil Roy and Harish Mysore also discussed about the flagship conferences and role of IEEE offices respectively. The program was coordinated by Dr. Amit Kumar, Vice-Chair, IEEE Hyderabad Section.
IEEE WIE International Leadership Summit 2019, Bangalore

Prepared by: Dr. D. N. Sujatha, Chair, IEEE WiE ILS 19, Bengaluru

The IEEE Women in Engineering (WiE) International Leadership Summit – 2019, Bengaluru was organized by IEEE Women in Engineering Affinity Group of IEEE Bangalore Section at Hotel Sterling’s Mac, Bengaluru on 30th and 31st August 2019.

The inaugural function started with an Invocation by Snigdha from BMS College of Engineering followed by welcome address by Keshav Bapat, Chair, IEEE Bangalore Section and lighting the lamp by all the dignitaries. Puneet Mishra, Chair Elect, IEEE Bangalore Section provided a glimpse of the 43 year-old history of IEEE Bangalore Section, its activities and volunteering opportunities. Deepa Shenoy, Co-Chair, ILS19 highlighted the growth and activities of Women in Engineering Affinity group of IEEE Bangalore Section during its eleven years of existence.

Harish Mysore, Senior Director of IEEE, India operations gave a brief overview of WiE’s global initiatives. He expressed pride in the leadership that the subcontinent is taking in these activities. Divya M G, WiE Chair and the Program Chair, ILS2019 gave the key highlights of the summit.

The inaugural address was given by Nigar Shaji, Project Director, Aditya-L1 Mission of ISRO. Shaji recalled the vision of the founding Father of Indian Space Establishment, Dr. Vikram Sarabhai, to put India on the global space map and use space missions for social and national development. Today, India has demonstrated its technological capabilities and transformed the space program from what was once considered as a luxury to a necessity. Space research and science missions are the next frontier for human civilization and ISRO is engaged in several missions like Chandrayaan, Mars Orbiter Mission (MOM), Aditya L1, Xposat and many others to explore the universe.

D.N. Sujatha, Chair, ILS19 proposed the vote of thanks. The summit saw participation of 350 delegates and dignitaries from around the world including USA, Japan, Thailand and Sri Lanka. Of these, 250 participants were IEEE members and 125 non-members. The theme of the Summit was “Redefining the Defined”. It included 9 keynote addresses, 10 invited talks in tracks such as Entrepreneurship, Humanitarian, Innovation, Leadership and Women in Technology. A panel discussion on “Capability Vs Capability: Striking the Right Balance”, and a workshop on “Reskilling for Digital Economy” was a part of the summit. The evening of 30th August had an entertaining cultural night followed by dinner. In-order to keep the entire team fit, a practical session on basic yoga was arranged on 31st August 2019.
The valedictory function was held on 31st August 2019, The Chief Guest was Pamela Kumar, Director General, TSDSI and Guest of Honor was Kathy Susan Land, Program Manager, US Department of Defense. Keshav Bapat, Chair, IEEE Bangalore Section proposed the vote of thanks.

The summit sponsors included:

- **Gold Sponsors:** JP Morgan Chase, Google, Cisco, HPE
- **Silver Sponsors:** Reliance Jio
- **Bronze Sponsors:** Dayananda Sagar University, BMS College of Engineering and Boeing,
- **Professional Body Sponsors:** IEEE Bangalore Section, IEEE YP, Bangalore Section, IEEE Humanitarian Activities Committee, Antenna and Propagation Society and Microwave Theory and Techniques Society, IEEE India Council and IEEE Delhi Section,
- **Academic Sponsors:** Ramaih Institute of Technology, Reva University, RV College of Engineering
- **Outreach Partner:** AnitaB.org

The summit provided opportunities to foster diversity in the workplace, networking, mentorship, and collaboration. The uniqueness being that, they provide a platform for women to share success and learn from failures and challenges; celebrate entrepreneurship sprit and leadership of women in the fields of Science and Engineering.
IEEE WIE International Leadership Summit 2019, Beijing

“Tech for Good Needs More Women Engineers”

Prepared by: Lan Wang Jing Dong

IEEE WIE International Leadership Summit 2019 was successfully held at Zhongguancun Dongsheng International Science Park, Beijing on 6th and 7th September 2019. This is the first such international summit in China hosted by the Beijing Affinity Group of IEEE WIE. 200 professionals from technology companies, government, universities and scientific research institutions participated in this summit.

IEEE 2020 President-Elect, Toshio Fukuda and 40 distinguished speakers from industry and academia like IBM, Intel, China Mobile, Lenovo, Engie, E-visible, Tsinghua University, Peking University, Iwate Prefectural University and China Academy of Science gave enlightening and informative talks for the summit. Prof. Toshio Fukuda shared his personal experiences and encouraged people to actively participate in the global technology community of IEEE. Ms. Emi Yano, IEEE WIE R10 Chair, delivered a brilliant speech titled, ‘Change the World! - To Be a Change-Maker’. Other topics of presentation included women leadership, career development, Artificial Intelligence, tech for good and 5G.

Two panel discussions were organized which saw intense deliberations on topics such as sex discrimination in career promotion; advantages and disadvantages of male and female employees; business model innovation or technology innovation, and chase trends or keep in one field. Another summit highlight was five female speakers aged from 12 to 16 speaking about future leadership, which enthralled and captivated the audience.
Prof. Toshio Fukuda and Ms. Emi Yano awarded the Best Service Award to all members of the Organizing Committee of the summit. Dr. Yonghua Lin, IEEE WIE Beijing AG Chair gave the closing remarks. She shared a little story about her own growth, which demonstrated the important role of the right environment for career choice and life transition. She was confident that the WIE leadership summit for women engineers in coming years would continue to go from strength to strength and touch many lives.
Collaborating with Industry Event, IEEE Makes a Difference

Written by Ewell Tan, Project Manager, IEEE Asia-Pacific Limited

The third edition of INTERPOL World took place from 2nd to 4th July 2019 at Sands Expo & Convention Centre, Marina Bay Sands Singapore. IEEE is proud to partner this INTERPOL event with the theme, “Engaging Co-creation to Prepare for Future Security Threats” and supported by Singapore’s Ministry of Home Affairs.

Technology revolution has resulted in many advantages; however, it also creates disruption and explores vulnerabilities for criminal attacks. This event set the stage for stakeholders to co-create, exhibit capabilities, and share insights to shape the future security landscape. This event provided an excellent opportunity for IEEE to showcase and promote IEEE membership benefits, IEEE Xplore Digital Library, and uncover the cutting-edge products and services that IEEE can provide to the community.

In addition to this event, IEEE also collaborated with the RSA Conference 2019 Asia Pacific & Japan, which was held from 16th to 18th July 2019 in Singapore by organizing a series of IEEE Seminars for the conference. Prof. Andrew Woodward, Executive Dean of Science from Edith Cowan University conducted two workshops, namely “Aftermath Reporting – The What, Why, How, Who and When” and “Using Honeypots to Determine who is Targeting SCADA and Control Systems”. 199 participants attended these workshops. Another hot topic “Ethical Hacking” was presented by Prof. Paul Haskell-Dowland, Associate Dean for Computing and Security, School of Science from Edith Cowan University with 285 participants.

Participants attending “Ethical Hacking” workshop by Prof. Paul Haskell-Dowland, Associate Dean for Computing and Security, School of Science from Edith Cowan University
The presence of IEEE in these premier industry events was an excellent opportunity to create awareness among industry players, government agencies, private entities and organizations. IEEE offers ample opportunities to network and grow professionally through communities.
5. SECTION/SUBSECTION/COUNCIL ACTIVITIES

Bangalore Section
Rajashekhar S, Secretary for IEEE Bangalore Section

AI and Blockchain at Edge — IEEE Event at Bangalore, 10th May 2019
This event was organized by the IEEE Bangalore Section and IEEE Standards Association (IEEE SA) Blockchain Group together at Philips Innovation Center, Bangalore on 10th May 2019. More than 150 professionals participated in this one full-day event.

The keynote was delivered by Philips India CEO, Kalavathy GV, and she emphasized the medical industry’s need for AI which is making a revolution in this field. Some of the topics presented included; “Trusted AI models in Healthcare”, “Emerging Confluence of Blockchain and AI”, AI inference acceleration at the edge, IoT Use Cases, Data at Edge, case studies, etc. Panel discussion on “Challenges & Opportunities in AI, Blockchain & Edge”, discussed various blockchain and AI challenges in Indian context and discussed emerging trends, solutions, and use cases.

CONECCT 2019, 26th – 27th July 2019, IIIT, Bangalore
IEEE CONECCCT is the annual technical conference organized by the IEEE Bangalore Section. The theme of the conference encompasses Electronics, Communication, Signal Processing, and VLSI/Embedded Systems. The conference is inaugurated by IEEE President, Prof. Jose Moura. He gave the keynote presentation. Pre-conference tutorials had topics such as Block Chain, 5G Communication, and SoC Design for IoT.

YTEMS, 1st August 2019, NASSCOM Startup Warehouse, Bangalore
This event was organized for YP for efficient management and use of technologies for furthering their careers and entrepreneurship. Speakers include Abhishek Appaji, VC of YP, IEEE TEMS India; A Vijayarajan, founder and CTO of InnAccel; Dr Ashwni, YP Chair Elect, Bangalore Section; Aisha Nazia, VC, WIE in TEMS India; and Dr Prasant Mishra, TCS Research and Innovation team, who share their insights on entrepreneurial journey, innovation management etc.

IEEE SmartTech 2019, 2nd – 3rd August 2019, Bangalore
IEEE Bangalore Section organized the 6th edition of IEEE SmartTech, with theme on "The Future of ElectroMobility". Technology practitioners shared their understanding on technologies and challenges for sustainable city-scale mobility in general, and electromobility in specific. The winners of the 2019 IEEE Bangalore Industry Awards were felicitated at this workshop.
Hyderabad Section
Mousmi Ajay Chaurasia, Excomm Member for IEEE Hyderabad Section

2019 IEEE International Conference on Intelligent Systems and Green Tech (ICISGT-2019)

IEEE ICISGT was the flagship conference of IEEE Vizag Bay Sub-Section under IEEE Hyderabad Section held on 29th – 30th June 2019 at YVSM auditorium, Vizag. “This conference was one of its kind and is planned to be organized bi-annually in Vizag Bay Sub-Section area” said Dr. Abraham Varughese, General Chair, ICISGT. The objective was to present and discuss recent innovations and concerns in multi-disciplinary areas like Green Computing, Intelligent Systems and Controls. The conference received 111 paper submissions from nine different countries including India. Only 25 high quality research papers were accepted and presented in the conference.

Dr. O.R. Nandagopan, Outstanding Scientist and Director, NSTL (DRDO) was the chief guest for the inaugural session. During his address, he stressed the need of such conferences in Visakhapatnam as the city will be the hub for high-end technical products. The conference proceeding volume was released by the chief guest and Mousmi Ajay Chaurasia, representing IEEE Hyderabad section. There were six technical sessions, one panel discussion and a special session on “Conventional and Bio-inspired Techniques for Industrial Applications” organized at this conference. The valedictory function was chaired by Sri K.V. Sriram, Chair, IEEE Vizag Bay Sub-Section and participation certificates were awarded to all the participants.

Dr. S. Lakshminarayana, Organizing and Publication Chair proposed the vote of thanks.

Section Student Congress 2019 (SSC 2019)

A one-day Section Student Congress (SSC) – a flagship event of IEEE Hyderabad Section was held on 10th August 2019 in JN Auditorium, JNTUH, Hyderabad. There was record participation with over 1000 attendees including professors, branch counselors, chapter advisors and student members of various student branches of IEEE Hyderabad Section across the states of AP and Telangana. The theme of the congress was "Redefining Technology in the New Millennium". The event’s chief guest was Mr. Navin Mittal, IAS, Commissionerate of Collegiate & Technical Education, Government of Telangana.

This was followed by a keynote address by Dr. Manish Kothari, Vice president, Qualcomm. His address focused on various applications of 5G communications, IOT automation and AI in computing. Another four technical and professional development talks by Mr. Sandeep Arora of Verizon, Sri Charan Lakkaraju of StuMagz and Anil Rachamalla of End Now foundation were organised. The session closed with a panel discussion on “IEEE SB Operations”. At the same time, student from various student branches displayed projects in the exhibit hall and gave a brief description about the activities done by their Student Branches.
in Project Exhibits. In the valedictory ceremony, the following student branch awards were announced:

1. Vibrant student branch - GITAM University, Visakhapatnam and VNRVJET, Hyderabad
2. Emerging student branch - Vignan’s Foundations for Science & Technology, Guntur and JNTU Narasaraopet
3. Lead student branch - G. Pulla Reddy Engineering College, Kurnool

At the end, vote of thanks was proposed by Dr. Y. Vijayalatha, SAC of IEEE Hyderabad Section.

Islamabad Section

Islamabad Section AP03/MMT17/EMC27 Jt. Chapter Updates
Nosherwan Shoaib, Chair for IEEE Islamabad Section Jt. Chapter

The IEEE Islamabad Section MTTS/APS/EMCS joint chapter has organized an IEEE EMC/EMI workshop on 2nd – 3rd July 2019 at the Research Institute for Microwave and Millimeter-Wave Studies (RIMMS), National University of Sciences and Technology (NUST), H-12, Islamabad, Pakistan, exclusively focused on EMC/EMI issues. The workshop was attended by students, faculty members and industry representatives from all over Pakistan.

An IEEE RF Design Competition was held at NUST-RIMMS on 4th July 2019. The theme was “Design and develop an IC based RF receiver for wireless application”. The students have enthusiastically participated in the competition.

Dr. Nosherwan Shoaib, Chair of IEEE MTTS/APS/EMCS joint chapter and faculty member at NUST-RIMMS H-12 Campus, Islamabad, Pakistan, is awarded the 2019 IEEE Faculty Course Development Award from IEEE I&M Society during an award ceremony at 2019 International Instrumentation and Measurement Technology Conference in Auckland, New Zealand. The award contains an IEEE certificate and USD10,000 cash prize.
The WISHY Congress is the flagship event of IEEE Indonesia Section which is regularly organized every two years. WISHY stands for Women in Engineering (W), Industrial Relations (I), Students (S), Humanitarian Technology (H) and Young Professionals (Y) groups under IEEE Indonesia Section. The theme of 2019 edition of the congress was “Strengthening Engineering Competence by Enhancing Technology Literacy for Eastern Indonesia.” This event was organized in conjunction with COMNETSAT 2019 in Makasar on 1st August 2019. The event was very successful in expanding IEEE in Eastern Indonesia as well as providing a much-needed platform to foster science and engineering innovation.

A day before the WISHY Congress, the pre-WISHY congress with theme, “AI and Coding Education for Digital Generation; What, Why and How to Prepare” was organized by the Women in Engineering Affinity Group. The lead speaker, Dr. Noor Akhmad Setiawan spoke about AI and coding literacy, its urgency and preparations for the same. He also linked Industry 4.0 with the AI and coding competence as one of the major literacies to be mastered. During this workshop, participants were grouped into 4 groups and each group had to develop an innovative program for junior generation in terms of introducing or developing AI and coding literacy.

The WISHY Congress had 3 sessions namely Engineering for Humanitarian, Plenary and Young & Talented. The first session, managed by SIGHT for Telemedicine and Humanitarian in Rural Area Development, IEEE Indonesia Section, inspired participants to leverage engineering for societal and humanitarian benefit. The session was driven by Dr. Yoke, Dr. Lina and Dr. Allya. Participants were given orientation on developing humanitarian technology projects and applying for funding from IEEE SIGHT and IEEE HAC.

The theme of the Plenary session was “Inspiration for Self Transformation”. It commenced with a talk by Dr. Kurnianingsih who presented IEEE at glance. Then, Dr. Nur Afny C. Andryani representing WIE and Mrs. Agnes Irawanti, Co-founder of Multikom Global Mediatama representing Industrial Relations of IEEE Indonesia Section addressed the gathering on literacy and skill in Industry Revolution 4.0. Dr. Afny stressed that students need to build awareness and get ready to sharpen their knowledge, hard and soft skill to face the challenge in Industry 4.0. Mrs Agnes provided the industry perspective in her talk on “The importance of Engineering Competence in Industry 4.0”.

In the third session themed Young and Talented, Dr. Indrabayu, Mr. Muhammad Sabirin, and Mrs. Cleosa were the speakers. The talks focused on leveraging technology and creativity by young professionals to be successful and productive in the Industry 4.0 era. The WISHY Congress 2019, which emerged as an excellent event, was fully supported by IEEE Indonesia Section and HAC event grant.
Karachi Section

IEEE Karachi Section Student Activities
Saifullah Baloch, Student Representative for IEEE Karachi Section

The Student Activities Committee (SAC) of IEEE Karachi Section started their activities from their first and most demanded event which was the Chair Meetup. It was organized at Usman Institute of Technology, Karachi, Sindh, Pakistan on 5th July 2019. In this meetup, chairs from various student branches under IEEE Karachi Section were briefed by SAC Chair, Atif Fareed, Section Student Representative, Saifullah Baloch and other SAC team members, on the following topics:

1. Vtools Officers Reporting,
2. Vtools Events Reporting,
3. IEEE Volunteer Roster,
4. OU Analytics/SAMIEE,
5. Team management,
6. IEEE awareness sessions,
7. Student branch ExCom updating process,
8. Annual events plan,
9. VOLT&SPAA nominations.

The chairs were then asked to share their problems/queries regarding student branches’ governance. The meeting ended with refreshments and group photos.

The SAC organized their second event, IEEE VOLT & SPAA, at UBIT, University of Karachi on 27th July 2019. In this event, a workshop was conducted by Prakash Lohana on the topic of IEEE Humanitarian Technology. Apart from this, the current SSR, Saifullah Baloch, explained VOLT & SPAA to the audience. This was followed by a number of guest speaker sessions on various topics including the essential requirement of fresh engineers in the industrial sector by Engr. Tahir Saleem, and trends in research and technology by Ms. Shaista Rais. Prof. Dr. Muhammad Shahab Siddiqui also addressed everyone about the past, present, and future of IEEE Karachi Section. Qazi Muhammad Suleman talked about professional ethics.

V-tools training was also provided by Mairaj-ul-Haque to the chairs of the different IEEE student branches in attendance. Finally, a panel discussion was carried out to address matters related to effective student branch governance. This discussion was headed by the current SSR, Saifullah Baloch, former SSR, Hareem Saleem, and members of the SAC Team, including Nimra Janjua, Haris bin Ashraf and Muhammad Rafay Shaikh. The event wrapped up with the distribution of certificates to the participants in attendance, a memento as a small token of our appreciation to our esteemed guests and speakers, as well as a gesture of appreciation to the student volunteers and organizers. Sixty participants from thirteen student branches participated in this event.
The first edition of the IEEE Bombay Section Signature Conference (IBSSC) 2019, a spin-off of the successful 3-edition Signature Symposium series (IBSS), was successfully organized during 26th – 28th July 2019 at the VMCC, IIT Bombay. While the theme of this Conference is “Frontiers of Technologies: Fuelling Prosperity of the Planet and People”, the tracks chosen for this edition were: Internet of Things, Data Science and Analytics, Robotics Process Automation and Artificial Intelligence and Machine Learning.

Day-long pre-conference tutorials were organised on 26th July 2019 by two academia experts, with the first session by Dr. Sanjay S. Shitole (UMIT, Mumbai) on “Machine Learning based predictive analytics”, followed by Prof. Santosh Chapaner (SFIT, Mumbai) on “Advances in Deep Learning”. The conference was inaugurated by Mr. Raghuram Velega, VP – Head of Analytics (Bigdata and ML), Jio Infocomm Ltd., Mumbai, who also delivered the keynote address on “Building a successful data driven organization (Jio)”. The plenary talks were delivered by the experts from industry, academic and research fields. Following is the list of plenary talks:

- Ms. Shreya Shah (Intellica.AI, Ahmedabad) and Ms. Kajal Kodrani (Azilen Technologies, Mumbai) on “Text Similarity using NLP Techniques”;
- Prof. Vivek Borkar (IIT Bombay) on “Crawling towards ephemera”;
- Mr. Manuyash Chaudhary (Accubits Technologies, Thiruvananthapuram) on “The Future of AI”;
- Mr. Bhanwar Bishnoi (L&T, Mumbai) on “IoT in Smart Grid and Smart Agriculture System”;
- Ms. Reema Shah (La Esfera Multiservices Llp, Mumbai) on “Robotics Process Automation: A way forward”;
- Dr. Sasikumar M (CDAC, Mumbai) on “Robotics: Where we are and challenges” and
- Dr. Shravan M Hanasoge (TIFR, Mumbai) on “The exciting applications of Machine learning in Science”

Mathworks has not only supported the Conference, but also conducted an industry session on “Digital Transformation: Preparing the Engineer of Tomorrow” by its Education Technical Evangelist, Mr. Pawankumar Fakatkar, as well as organised a broadcast session on “Addressing challenges in Deep Learning workflows using MATLAB”.

In response to Call for Papers in the above-mentioned tracks, 329 papers were received. After a strict multi-level review process, only 83 best quality papers were selected for oral presentation, out of which 51 papers were presented in eight parallel sessions at the conference. Two of the best presentations were awarded. The papers presented at the conference will be submitted to IEEE Xplore for publication. In all, about 120 delegates attended the conference. Based on the informal feedback received at the Conference, the conference format, the tracks, the tutorials as well as the plenary sessions were found to be highly informative and inspirational by the participants. The young delegates were able to beneficially network and interact with the invited experts from all walks of the technical professions and carried home an enriching experience with them.
National STEM Colloquium 2019

Pahang. During this STEM national colloquium which was officiated by Dr Maszlee bin Malik, Minister of Education Malaysia, IEEE members conducted a workshop on Electronic Design for teachers and showcased STEM initiatives and resources by IEEE to more than 1000 education officers, teachers, parents and students from the state of Pahang and all over Malaysia. Led by Mohd Hafiz Ismail, the Section Education Activities Chair, 7 IEEE volunteers involved as facilitator and exhibitor were Prof Lee Yoot Khuan (UiTM Shah Alam), Zarina Tukiran (UTHM), Fakhriah Razali (UTHM), Hazwan Haikal Abdul Hamid (UniMAP), Mohd Ridzwan Syah Sani (UPSI), Mohamad Fadzni Aidil Mohd Rusydi (UPSI) and Rabiatul Adawiyah Imam Kaedi (SMI Hira’).

National Level STEM Exploration Day: Driving Sustainable Communities

The Educational Activities Committee of IEEE Malaysia Section has been appointed as the program advisor and exhibition coordinator for Eksplorasi STEM Peringkat Kebangsaan: Memacu Komuniti Lestari which was held on 28th April 2019 at Sekolah Kebangsaan Hutan Kampong Kedah. This event, which was jointly organized by SK Hutan Kampong, Kedah State Education Department, Ministry of Education Malaysia, IEEE Malaysia Section and Universiti Malaysia Perlis, was officiated by Dr Haji Ahmad Rafee bin Che Kassim, Director, Educational Planning and Research Division, Ministry of Education, and has attracted more than 1000 students from more than 30 schools from the northern states of Kedah, Perlis, Perak and Pulau Pinang. The Educational Activities Committee has also conducted other STEM-related activities such as the Sumo Robot Challenge, Line Follower Demonstration, Powerball Challenge and Electronic Design Workshop. IEEE volunteers for these events were from the School of Microelectronic Engineering, Universiti Malaysia Perlis.

Malaysia Section OES Chapter Visit to Northwestern Polytechnical University, China
Khalid Isa, Chair for IEEE Malaysia Section OES Chapter

On 14th - 17th August 2019, the IEEE Ocean Engineering Society (OES) Malaysia Chapter organized a visit to Northwestern Polytechnical University, China. The activities include a session meeting for research collaboration, Unmanned Underwater Vehicle lab visit and invited talk from Prof. Ir. Mohd Rizal Arshad and Dr. Khalid Isa. There are many collaboration opportunities given by Northwestern Polytechnical University to OES Malaysia Chapter. The visit connects the expertise of professionals in a friendly discussion and the potential for collaboration between the universities and IEEE OES. It is a great platform for delegates to discuss and share their insights on the trends, issues, and possible solutions to prevailing concerns in the field of Ocean Engineering. The talk attracted more than 30 students and staff.

Sri Lanka Section

IEEE Sri Lanka Section Electronic Design Competition 2019
Rashmi Ranasinghage, SAC Content Editor for IEEE Sri Lanka Section

The IEEE Sri Lanka Section Electronic Design Competition (EDC) is aimed at popularizing IEEE among the student community and also to boost the electronic design interest and capabilities of Sri Lankan university students. It was a good opportunity to encourage young engineers to develop an interest and skill in electronic design. The IEEE EDC was successfully held on the 28th July 2019 from 8:30am to 4:30pm. It was concurrently held in 5 centers in 5 different universities including the University of Peradeniya, University of Moratuwa, University of Ruhuna, SLIIT, and Wayamba University of Sri Lanka. EDC was a group-based competition and there were 3 undergraduate students per team with at least one IEEE Student Member in the team. They had to complete the design task within 8 hours. The competitors were invigilated by university lecturers and industry professionals from around the island. For the competitors, necessary electronic components, circuit boards, stationery, equipment (oscilloscope, function generator, soldering iron, etc.), and access to the Internet were provided.
There were more than 115 teams participating for EDC this year. All other centers had their respective experienced coordinators who handled the event professionally. A highlight of the event was that there were more than 50 teams participating solely from IEEE University of Ruhuna Student Branch. The competition brought together many skillful students who completed the given design task successfully at all centers. Final evaluations to determine the country winner is currently underway. They will be recognized in the IEEE Sri Lanka Section Annual General Meeting in January 2020.

**Insights of Renewable Energy challenges with IEEE PES Sri Lanka Chapter**

Akila Wijethunge, Secretary for IEEE Sri Lanka PES Chapter

IEEE Sri Lanka PES Chapter organized a series of seminars on "Renewable Energy: Opportunities, Key Challenges and Potential Solutions 2019" on 19th March 2019 at the Ceylon Electricity Board Auditorium, Kandy and on 21st March 2019 at the University of Moratuwa. Invited speakers from Indian Institute for Technology, Gandhinagar, India, Prof. Naran Pindoriya, Dr Shivashankar Sukumar and Mr Rishabh Abhinav delivered talks on insights of renewable energy grid integration and management using battery energy storage system. Around 80 participants from industry and academia were present at each seminar. Another guest lecture on “Wind and solar power development: Where is Europe heading?” was organized on 30th April 2019, at the Department of Electrical and Electronic Engineering, University of Peradeniya. Guest speaker Mr. Erik Lysen, Director of the LYSEN Consulting Engineer, Netherland presented on development of wind and solar power globally and their anticipated innovations for 100 undergraduates and academia participants.

**Bahawalpur Sub-Section**

IEEE Bahawalpur Sub-Section Young Professionals & Women in Engineering Congress 2019

Muhammad Ali Qureshi, Chair for Bahawalpur Sub-Section

The 3rd Episode of IEEE Bahawalpur Subsection Student/Young Professionals/Women in Engineering Congress 2019 (BSSYWC’19) was held from 29th - 30th March 2019 at The Islamia University Bahawalpur, Pakistan in collaboration with IEEE-HAC, IEEE-YP, and IEEE-SPS. The BSSYWC’19 proved to be one of the biggest technology events of South Punjab, and IEEE Pakistan. The two days congress was attended by students and faculty delegations from more than ten engineering & computer science institutes of Southern Punjab including Bahuddin Zikaraya University Multan, NFC-IET Multan, Air...
University Multan, MNS UET Multan, KFUEIT Rahim Yar Khan, PIET Multan, ISP Multan, and MNS Agriculture University Multan.

The top researchers, scientists, distinguished speakers, experts from industries, faculty members from different universities, and IEEE senior volunteers came from all across Pakistan to attend the event. The major agenda of the event was to provide a platform to students to meet researchers, industrial experts, entrepreneurs, young professionals, women engineers, and fellow students to discuss the advancements in their respective fields. In line with its predecessor event, the event was widely endorsed and appreciated by senior officials of IEEE Region10 & IEEE Global.

The event started on Friday 29th March 2019 with the opening keynote from Prof. Dr. Muhammad Amjad, Dean of Faculty of Engineering. It was then followed by a keynote on IEEE delivered by Usman Munawar, General Secretary of IEEE Lahore Section. A workshop on Entrepreneurship was then delivered by famous speaker Waqar Tayyub. Dr. Khan Bahaddar delivered a workshop on Biomedical Image Processing. The session was co-sponsored by IEEE Signal Processing Society. An important session on women empowerment titled “Together We Can” delivered by Ujyara Saleem was also held. Dr. Muhammad Ali Qureshi, IEEE Senior Member, and Chair of Bahawalpur Sub-section delivered the seminar on “The Do’s and Don’ts in Scientific Writing”.

The 2nd day of BSSYWC’19 started with a panel discussion on IEEE & its benefits followed by technical and non-technical sessions. Dr. Wajahat M Qazi gave a detailed talk on Artificial Intelligence and Cognitive Robotics. Syed Najeeb-ul-Hasan, certified CISCO trainer gave a workshop on Network Security. Dr. Farhana Umer gave a workshop on renewable energies co-sponsored by IEEE Humanitarian Activities Committee. A comprehensive panel discussion was held in which senior officials from ten different industries including FFC, PTCL, WAPDA, and SNGPL, etc. participated. The track was co-sponsored by IEEE Young Professionals.

Other activities such as treasure hunt, photography competition, concert, and dinner were also part of the event. The delegations and guests were taken to a city tour to Noor Mahal to show them the rich cultural heritage of Bahawalpur. The delegation enjoyed the light and sound show at Noor Mahal. An award night followed by dinner was also hosted for the guests and participants. The event was closed with closing remarks from Dr. Muhammad Ali Qureshi, Chair of IEEE Bahawalpur Subsection. The appreciationshields were given to speakers, session chairs, advisors student chapters, and organizers.
AFFINITY GROUP ACTIVITIES
6. AFFINITY GROUPS (WIE/YP/LMAG/CNAG) ACTIVITIES

Sendai Section WIE AG

Report of Sendai WIE Organized Session “Research Attraction as Narrated by Women”
Qiaowei Yuan, Chair for IEEE Islamabad Section WIE AG

The special session "Research attraction as narrated by women" was successfully organized by Sendai Section WIE AG, in joint convention with the Institutes of Electrical and Information Engineers. The event was held at Akita University on 22nd August with 28 attendees. The objective was to attract more female students, researchers and practitioners to enjoy research and engineering. It was held for the second time from its first inception in 2018, with six oral presentations covering computer applications, sensors, health-related issues and so on. At the end of the session, an interesting special talk entitled “Carrier development as a “KUROMONO” or carbon material scientist” was presented by Dr. Noriko YOSHIZAWA (AIST, Japan). Dr. YOSHIZAWA not only shared her precious research process and results with the audiences, but also gave the important hint on how to develop the career as an engineer or a researcher, stimulating lots of young students to spend more time on their research.

Malaysia Section WIE AG

Arduino Programming for High School Instructors
Azrina Abd Aziz, Committee Member for IEEE Malaysia Section WIE AG

IEEE Malaysia Section Women in Engineering (WIE) and the Electrical and Electronic Engineering Department of Universiti Teknologi PETRONAS organized a half-day program called the “Workshop on Arduino for High School Instructor” on 24th April 2019. The objective of the program was to introduce high school teachers to the construction of simple electronic circuits and basic coding of Arduino. This is to provide technical knowledge to school teachers who are teaching “Reka Bentuk Teknologi” subject. Around 12 teachers from SMK Seri Iskandar, Perak had participated in this workshop. At the beginning of the lesson, the teachers were first exposed to free browser-based program called Tinkercad which allows them to design the circuits, write codes for the Arduino and perform
simulation. The participants were then given a challenge to construct real circuits based on the prior design, upload the Arduino codes into the Arduino microcontroller board and finally test the circuits for better understanding.

**Karachi Section YP AG**

Muhammad Hanan, Chair for IEEE Karachi Section YP AG

**Seminar on "Renewable Energy Development & Prospects of Employment in Power Sector of Pakistan"**

IEEE Karachi Section YP organized an awareness seminar to enlighten the attendees about the opportunities in renewable energy sector of Pakistan. The seminar was delivered by Engr. Jawad Khan Unar. Since attendees were students, graduates and professionals, the speaker started his talk by emphasizing on the need of energy security for any country and taking this further to the current energy dynamics of Pakistan. The speakers then elaborated why it is essential to have diversification in energy generation resources and what steps have been taken in Pakistan to ensure a good energy mix in comparison to global trends. Further expanding each sector such as solar, wind, energy storage and transmission etc. and their current share in Pakistani energy mix. Attendees were informed about ongoing projects, future plans, policy making processes, major stockholders and key players in renewable energy sector of Pakistan.

**1st IEEE YP KHI MEET-UP**

IEEE Karachi Section YP organized a round table meet-up for young engineers and invited industry and government decision-makers to brainstorm on these issues and come up with a plan to address them. Engr. Ms. Aisha, an active volunteer of IEEE YP, advised the YP on employment opportunities in research-focused firm. She gave directions for soon-to-be graduates to develop an industry-relevant skill which can help them land a job after graduation. Mr. Farooq Sattar, a very prominent politician who never misses any chance to take stand for youth in Pakistan also make his presence at the meet up. Participants discussed their issues with him and he assured that these problems will surely be addressed at right platforms. Engr. M Hanan Daudpota, Chair of IEEE Young Professionals Karachi gives a note of thanks to guests.
With the intention of preparing the youth for industry, IEEE Young Professionals Sri Lanka successfully concluded several events recently. Among those was LETs Talk event on 25\textsuperscript{th} July at SLIIT, Colombo. Themed “Quality Coder”, the event mainly focused on uplifting young generation’s competency of quality coding. The keynote speaker was Mr. Chamil Jeewantha, a software architect and a co-author of ICTA Quality Corder Manual. On 27\textsuperscript{th} June 2019 a workshop on 'Interview Facing and Personal Grooming' of IEEE StudPro 3.0, was held at the University of Moratuwa. Mr. Sadun Fernando as the keynote speaker, as well as Mr. Chamara Prasanga, Senior Manager, and Mr. Amila Weerarathne, Senior Engineer at Mobitel (Pvt) Ltd as guest speakers shared valuable thoughts on the topic.
STUDENT BRANCH ACTIVITIES
7. STUDENT BRANCH ACTIVITIES

Pakistan Institute of Engineering and Applied Sciences (PIEAS) Student Branch [Islamabad Section]

Seminar on "The World Ahead of Graduates"
Muhammad Tahir Khan, Chairperson for IEEE PIEAS Student Branch

IEEE PIEAS Student Branch along with UNICORN VENTURES conducted a seminar on “The World Ahead of Graduates” for the guidance and counselling of students to help them in the job market after graduation, on 25th May 2019 in Pakistan Institute of Engineering and Applied Sciences. Mr. Mobeen Ayub, CEO UNICORN VENTURES, spoke in this session to an audience of around 47 people. This seminar was aimed to help students, especially from the graduating batch, to prepare themselves for the market venture by answering to some of the most important questions they have in their minds such as the challenges graduates will face in real life, career paths they can take and how can they start their own business with minimal money. Participants benefited from this session as it helps them with free courses for the interview, CV development, LinkedIn profile development and entrepreneurship.

Pakistan Institute of Engineering & Applied Sciences (PIEAS) WIE AG [Islamabad Section]

Meet the Seniors
Rabiyya Mir, Vice Chairperson for IEEE PIEAS WIE AG

A bright future needs a clear road map and to create such concrete maps with clarity we need experiences as well as expert opinions, tips and tricks. IEEE WIE PIEAS AG invited Ms. Zukhruf Amjad, former Chairperson of IEEE PIEAS WIE AG, to share her experiences and guide us about different opportunities related to scholarships and studying abroad. A Fulbright scholar, a Global UGRAD program winner and an engineer with an appreciable industry experience and great exposure to international forums, Ms. Zukhruf is a motivational speaker and enthusiastic worker. She has worked at P&G (Proctor & Gamble) Pakistan, one of the most prestigious multinational organizations. It was a great talk and helped a lot of students especially those looking for guidance about higher studies. Students enjoyed listening to her and she helped them in lining out tips and tricks for themselves.
Capital University of Science & Technology (CUST) Student Branch [Islamabad Section]

IEEE CUST Social and Educational Carnival 2019
Nayab Ali, General Secretary for IEEE CUST Student Branch

A substantial event, the IEEE CUST Social and Educational Carnival 2019 (ICSEC’19) had been organized under the umbrella of IEEE CUST Student Branch on 29th - 30th March 2019 at the Capital University of Science & Technology. The carnival provided an appropriate platform for young minds to endeavor in a variety of technical and non-technical fields. Moreover, this mega event had enabled countrywide talent to be showcased including students from Multan, Karachi, Faisalabad and the far flung regions of the country like Baluchistan. 1400 participants made this event delightful. The highlight of the event was the marketing carnival and Sufi night which bagged the appreciation for all the participants and the organizers. The event comprised of 25 sub-modules and was sponsored by 9 different companies and organizations including Duniya News and IEEE Young Professionals.

COMSATS University Islamabad (CUI) RAS Student Chapter [Islamabad Section]

Workshop on Raspberry Pi
Izma Naveed, Chairperson for IEEE CUI RAS Student Chapter

Raspberry Pi is a small, low-cost device that allows people of all ages to explore the world of coding and computing. It is capable of performing all kinds of tasks, from browsing the internet to playing games. IEEE CUI RAS Student Chapter arranged a workshop on Raspberry Pi so our aspiring engineers can familiarize themselves with this amazing piece of technology. The workshop was held on 8th March 2019, from 3pm-5pm, under the supervision of Mr. Shoaib Ahmad, with around 50 participants. The main topics covered in the two-hour workshop were: Motivation on learning, introduction to Raspberry pie, installation of Noobs/Resbian, first Python program, camera interface, open CV installation guide, face recognition with Open CV, and applications of RPI. The workshop was an interactive session for the students and perfect for someone at a beginner level as well as for those who were pursuing projects or future careers in this field.
COMSATS University Islamabad (CUI) Wah Campus CS Student Chapter [Islamabad Section]

Orientation Session Fall - 2019
Ehsan Ellahi, General Secretary for IEEE CUI Wah Campus CS Student Chapter

With team members of 26 persons, the COMSATS University Islamabad (CUI) Wah Campus CS Student Chapter organized the Orientation Session for Comsats University, Wah Campus - Fall 2019. The session started at 9:00am, inaugurated by Dr. Wasif Nisar, Head of Department of Computer Sciences in Comsats University, Wah Campus. He gave a detailed introduction of Comsats University and the role of IEEE Computer Society in our campus. Dr. Mudassir Raza, a senior member of IEEE and current advisor of IEEE CS Chapter, explained the organization and hierarchy of IEEE. The orientation went very well with the participation of more than 100 students and faculty members. After the introductory session, all newcomers visited the campus site along with the organizers and head of department. In the end all attendees were served with cultural lunch in the campus, as the students were warmly welcomed to the campus.

Bahria University Karachi Student Branch [Karachi Section]

Headshot’19
Bushra Arif, General Secretary for IEEE Bahria University Karachi Student Branch

IEEE Bahria University Karachi Student Branch organized a gaming event HEADSHOT’19 on 28th July 2019 for the students of the university, in which two games were collocated - PUBG and Counter-Strike 1.6.

The event turned out to be a worthy effort for the Student Branch, as a total of 50 gamers (8 teams of 4 members for each game) took part in this event. Hard work and preparation go a long way and are necessary to organize a successful event, and that is what made HEADSHOT’19 a successful gaming event.

13 members of the student branch put their striking efforts in managing this event. The feedback from the participants was really appreciative and we are looking forward to seeing what comes in the future and hope to lead another amazing event.
Cummins College of Engineering for Women Student Branch [Nagpur Subsection]

IGNITE-4 (Entrepreneurship Promotion Event)
Jaya Gadge, Counselor for IEEE Cummins College of Engineering for Women Student Branch

Maharsi Karve Stree Shikshan Samstha’s (MKSSS) Cummins College of Engineering for Women, Nagpur in association with IEEE Nagpur Subsection had organized an event called "Ignite 4" Entrepreneurship Summit on 28th – 29th August 2019. VIA, VDIH, Lemon School of Entrepreneurship, Venture Catalyst, and Navbharat were the other partners of the event. The two-day event comprised of various activities such as start-up talks, start-up stories by promising entrepreneurs, competition and training on business plan making, idea generation, brainstorming and one-dollar venture competition, where Angel investors evaluated start-up proposals of students. The event had two tracks; Track 1 was for freshers to learn about the basics of entrepreneurship and also to take part in one-dollar venture competition. Track 2 was for startup entrepreneurs who wanted to pitch their ideas and seek investment from Angel investors. The total number of participant was 238 (90 IEEE members and 148 non-members). The event was jointly coordinated by Prof. Jaya Gadge, IEEE branch counselor, and Ms. Gunjan Chauhan, student chair, along with IEEE student members under the Guidance of Principal Dr. B.P. Joshi.

General Sir John Kotelawala Defence University (KDU) Student Branch [Sri Lanka Section]

Start-up Boot-camp – KDU SB
Devmin Abeyasena, Secretary for IEEE General Sir John Kotelawala Defence University Student Branch

The Student Branch of KDU organized a boot-camp, open for all the undergraduates of KDU on the 5th February 2019. This boot-camp was specially organized with the Start-up Weekend Women’s Edition in mind so that those planning to participate in the event would have a clear idea as what to do and be informed of how to successfully complete a start-up weekend. Anagi Perera, a well-known start-up entrepreneur, was invited as the guest speaker and she was able to educate the audiences on all the different aspects of a start-up weekend as well as how to handle the challenges faced during such an event. She was able to inspire the audiences through her success story as well.
A successful promotional week was held from 21st to 24th May 2019, recruiting over 180 new members to the IEEE SLIIT Student Branch. Induction '19, held on 21st July, was able to break the ice among the members. The event was graced by Mr. Pasan Pethiyagoda, the Former Asia Pacific Regional Student Representative and Ms. Tharushi Natasha, the Sri Lanka Section Student Representative.

Earlier, WIE AG held their first event Pit Stop 1.0 on 16th July, which provided an opportunity for students to actively engage by changing tyres, checking engine oil etc. with IMechE Student Chapter, under the guidance of Dr Malika Perera, a Senior Lecturer at SLIIT, Mr. Yukthika Abeysinghe, Research Associate of Bentley CAE Research Unit and Mr. Sean Lebroy, an instructor at SLIIT. Finally, PES Chapter organized Genesis 1.0, on 3rd August, having the co-founders of Surf Edge, Mr Chamath Palihawadana and Mr Janith Gamage as the guest speakers.

University of Peradeniya Student Branch [Sri Lanka Section]
DEEP SPEED’19 –Robotics Competition
Madushan Wickramasinghe, Chairperson for IEEE University of Peradeniya Student Branch

DEEP SPEED – Robotics Competition 2019, in parallel with the IEEE orientation for the first year batch, was successfully held on 20th January 2019 with the participation of 70 teams (average of 5 members per team) at EOE Pereira Theater in University of Peradeniya. The competition was organized by IEEE University of Peradeniya Student Branch, in collaboration with the Electrical and Electronic Engineering Society, Inventors Club and the Robotics Society.
The program was organized in order to give exposure to the basic engineering aspects and to gain experience on how engineering disciplines are applied in practical situations. This would be the initial step for the first year undergraduates to get a first-hand experience on contemporary robotics field. Competitors were guided and assisted throughout the given period by Dr. Janaka Wijayakulasooriya. Prof. J.B. Ekanayake and Dr. Ruwan Ranaweera also shared some experiences with the audiences at the event.

**National School of Business Management (NSBM) Student Branch [Sri Lanka Section]**

**Angular Zero to Hero**

**Gangadara Athukorala, Member for IEEE National School of Business Management Student Branch**

The IEEE Student Branch of NSBM Green University Town recently hosted a session named "Learn Angular Zero to Hero" on 26th June 2019 at the university premises. The event was conducted by Mr. Azkar Maulana who is currently a working trainee at 99x Technology and a proud undergraduate of NSBM as well as a former treasurer of the IEEE NSBM Student Branch. The session was about the development of platforms for building mobile and desktop web applications using Typescript, Javascript and other languages. The event was conducted successfully with the participation from both IEEE members and non-members of NSBM, as well as guest members of other IEEE student branches. After a 4-hour workshop, the participants were endorsed that they have learned Angular Zero to Hero.
The IEEE Student branch of Sri Lanka Technological Campus (SLTC) organized one of the biggest technical intra-campus competition for 2019, named “TECHNO BOTS” on 6th of July 2019, from 5:30pm – 12am. This is a competition in which the players build their own robots and battle it out in the arena, till the last one stands as the ultimate winner. The event was held successfully with sixteen teams, battling each other out. The event was led by Harsha Weerasinghe, the Webmaster of the current executive committee. Mr. Ranjith Rubasinghe, the CEO of Sri Lanka Technological Campus was invited as the chief guest and the winners were awarded with cash prizes of 20,000Rs for champions and 15,000Rs for the runners up respectively. The objective of this competition is to encourage students to create and customize their own RC robots under specific criteria and to test their applications in the battle arena.

MERCon 2019 is the international conference organized by the Engineering Research Unit (ERU) of the University of Moratuwa in collaboration with University of Moratuwa and IEEE Student Branch University of Moratuwa which was held for the fifth consecutive time on July 3-5, 2019 at Civil Engineering Complex at the University of Moratuwa. There were 200 paper submissions which had to undergo the peer review process. 140 submissions were accepted and in the near future, we anticipate some of the best reviewed ones to be published in IEEEXplore. The keynotes of the event were delivered by Prof. Weerathunga Malalasekara from Loughborough University, United Kingdom, Prof. J. Katupitiya, University of New South Wales, Australia and Prof. Nandana Rajathewa, University of Oulu, Finland.
A Distinguished Lecture on Deep Learning was organized by IEEE Sri Lanka Section and IEEE Student Branch of University of Kelaniya on 9th May 2019 at the Faculty of Computing and Technology, University of Kelaniya located in Peliyagoda, Sri Lanka. The speaker for the day was Prof. Saman Halgamuge, FIEEE and Professor in the Department of Mechanical and Infrastructure Engineering at the University of Melbourne. The event was attended by around 100 undergraduates, technology enthusiasts and lecturers from around the country. Deep learning is a part of machine learning and is one of the trending topics at the present. Areas such as supervised learning, unsupervised learning and neural learning were discussed by the speaker and received positive feedback from the audiences. A token of appreciation was presented to Prof. Halgamuge by Mr. Shamitha Chandrasena, the Student Branch Chair at the end of the session.

The Open University of Sri Lanka (OUSL) Student Branch [Sri Lanka Section]

IEEE Awaraness Programme

Iroshan Rathnayake, Chairperson for IEEE Open University of Sri Lanka Student Branch

The IEEE Awareness Program for the year 2019 was organized by IEEE Student Branch of Open University of Sri Lanka on 5th July 2019 at OUSL, with the participation of more than 60 non-IEEE members. Mr. Chanaka Hettige, Student Activities Committee (SAC) Chair of IEEE Sri Lanka Section and Ms. Tharushi Perera, Section Student Representative (SSR) were the chief guests of this event.
The awareness program consisted of an overview of IEEE which was delivered by the guest speakers. Through this event, undergraduates were given a good platform to interact with IEEE Student Branch of OUSL and their knowledge about the IEEE and its plethora of benefits to the student community. Since most of the target audience were particularly new to IEEE, it is hoped that the session was able to instill passion and guide the audiences towards taking little steps with IEEE.

Rajarata University of Sri Lanka Student Branch [Sri Lanka Section]

Rajarata Techtalk Series
Gobiga Rajalingam, Ass. Secretary for IEEE Rajarata University of Sri Lanka Student Branch

The Rajarata Techtalk Series stands prominent among the events organized by IEEE Student Branch of Rajarata University of Sri Lanka as it reaches to the student community in a limited time. With Rajarata Techtalk, a monthly technical event conducted by the students for the students on requested topics, the student branch has been reaching new heights while benefiting the audiences. Held every second week of each month from 4pm onwards, this has been a significant platform for student speakers to develop their communication skills and to disseminate their knowledge on the topic among the participants. Thus far, the student branch has conducted three monthly editions of Techtalk sessions focusing on micro:bit, UI/UX and technical writing, each generally consisting of around 50 participants. Every Techtalk is designed using the feedback received from the audience after every session. Besides empowering the student members of the branch, this has also presented the branch with an opportunity to join hands with the non-IEEE members, to secure the future of the student community in general.

University of Ruhuna Student Branch [Sri Lanka Section]

SHIELD OF CODE V1.0
Lochana Marasinghe, Secretary for IEEE University of Ruhuna Student Branch

SHIELD OF CODE V1.0 Idea Pitching Inter-Faculty Hackathon was organized by IEEE University of Ruhuna Student Branch on 17th August 2019. The event was held at the Auditorium, Faculty of Engineering, University of Ruhuna, in collaboration with Creative Software. The contest provided an excellent pitching platform for the undergraduates who are constantly filled with new ideas. Sixteen teams have been selected based on their initial proposal. The finalists were then engaged in a 6-hour development venture and got the opportunity to pitch their ideas to an expert panel of judges.
The winner, as well as the 1st and 2nd runners-up of the contest were all awarded with prize money. Dr. Rajitha Udawalpolo (Head of the EIE Department at Faculty of Engineering, UoR), Dr. Tharaka Ilayperuma (Senior Lecturer, CS Department at Faculty of Science, UoR) and Ms. Dinuka Tharanji (Project Manager at Creative Software) were present as the guests for the event.

University of Colombo School of Computing (UCSC) CS Student Chapter [Sri Lanka Section]

Game Rush Initial Workshop

Ishara Pasini, Student Member for IEEE UCSC CS Student Chapter

The initial workshop of the 4-part workshop series of Game Rush, a game development hackathon, was conducted by the IEEE Student Branch of UCSC. It was held on the 6th July 2019 at Microsoft Sri Lanka. Two speakers coordinated the event while more than 50 participants attended it. The first speaker was Chanux who is Sri Lanka’s top technology reviewer, and a software engineer and social media consultant by profession at Sinlix. Chanux started the workshop by giving a remarkable opening with an interactive session on introduction to game development. He further explained on the history and latest trends in game development. Then Mr. Uditha Sampath Bandara, who is the CEO & founder of Blue chip training and consulting, started his session by explaining game development techniques. He illustrated the use of game development and presented effective ways of developing games using Unity game engine.
Google I/O 2019 Uva Wellassa Rewind Session was successfully held on 13th July 2019 from 9.00a.m. to 4.30p.m. at the Uva Wellassa University premises with the participation of 167 university undergraduates. The event was conducted by Google Developer Group (GDG) in collaboration with the IEEE Uva Wellassa University Student Branch. By organizing this event, technology enthusiastic undergraduates were given good platform to expand their knowledge about trending technologies and new innovations.

The session mainly focused on highlights of Google I/O 2019, machine learning, GCP and PWA. The undergraduates were given an opportunity to engage in a code lab session and a WTM session. Michela Thalagala, Keshan Sodimanna, Tharaka Devinda, Anusha Gamlath and few more have participated in the event as resource speakers representing GDG Sri Lanka. As an IEEE Sri Lanka Section student branch, it was a great privilege to organize and host this event.
AWARDS AND FUNDING
8. AWARDS AND FUNDING

2019 MGA Outstanding Section Award Recipients

On 22 June 2019, the IEEE Member and Geographic Activities Board selected the following recipients of the 2019 MGA Outstanding Large, Medium and Small Section Awards, based on 2018 activities:

- **2019 MGA Outstanding Large Section Award: IEEE Bangalore Section (Region 10)**
  The IEEE Bangalore Section (R10) has organized many workshops, conferences and seminars, technology awards, standards activities, and innovation related workshops. The Section received a medal for first position in student members promoted to Young Professionals, and a “SILVER MEDAL” of recognition for meeting its recruitment goal for the 2018 membership year in August 2018.

- **2019 MGA Outstanding Medium Section Award: IEEE South Africa Section (Region 8)**
  The IEEE South Africa Section (R8) section is a member of the South African National Science and Technology Forum (NSTF), which secured four successful NSTF financial awards for IEEE member-driven community initiatives in 2017 and 2018. The Section executed a number of technical programs and increased the number of IEEE sponsored conferences and events in 2018.

- **2019 MGA Outstanding Small Section Award: IEEE Kenya Section from Region 8**
  The IEEE Kenya Section (R8) provided Technical Sponsorship to the 2018 IEEE International Conference on Soft Computing & Machine Intelligence (ISCMI 2018) at the University of Nairobi in November 2018. The section held a Symposium in August 2018, to drive innovation and entrepreneurship and to engage the government and private stakeholders in educating the public about the significant contributions of engineering to society.

Congratulations to the Bangalore, South Africa and Kenya Sections for being selected for these awards “For successful efforts in fulfilling the educational and scientific goals of IEEE for the benefit of the public by maintaining, enhancing, and supporting the Student Branches, Technical Chapters, and Affinity Groups within their geographic boundaries.”

The MGA Awards and Recognition Committee and the MGA Board were impressed by the quality of the nominations submitted and congratulate all Sections who submitted nominations for these awards.

Thank you to the nominators, Section Chairs, Region Awards Chairs, MGA Awards and Recognition Committee, and everyone who participated in the 2019 Outstanding Section Awards process.
Congratulations to all the winners of IEEE Regional Exemplary Student Branch Award (2019) from Region 10!

- Natl Institute of Technology Karnataka, Bangalore Section
- B.M. Sreenivasalah College of Engineering, Bangalore Section
- Visvesvaraya Univ College of Engrg, Bangalore Section
- Central University of Karnataka, Bangalore Section
- American International Univ-Bangladesh, Bangladesh Section
- Bangladesh Univ of Engineering and Tech, Bangladesh Section
- North South University, Bangladesh Section
- G H Raisoni College of Engineering Nagpur, Bombay Section
- Universal College Of Engineering, Bombay Section
- China Univ Of Electronic Science & Tech-UESTC, Chengdu Section
- A.D.Patel Institute of Technology, Gujarat Section
- COMSATS University Islamabad, Islamabad Section
- Chengannur College of Engineering, Kerala Section
- College of Engineering-Karunagappally, Kerala Section
- Sri Sivasubramaniya Nadar College of Engineering, Madras Section
IEEE Region 10 Student Activities Committee recognizes the importance of research and dissemination of the findings for the advancement of science and technology. Researching, writing, and presenting a paper provides a student with invaluable early experience in communicating ideas related to their professional field. The R10 Postgraduate Research Paper contest offers IEEE Student members an opportunity to exercise and improve both written and verbal communication skills.

The R10 Postgraduate Research Paper contest conducted annually which aims to improve the engineering students’ written communication skills and reporting research results to science & technology community. The contest facilitates the recognition of these skills and encourage other student members to develop technical, written and verbal communication skills.

The winners of the 2019 IEEE R10 Postgraduate Research Paper Contest:

**First prize: 300 USD**
Uzma Amin, Macquarie University, Australia
Title: *Energy Trading in Local Electricity Market with Renewables-A Contract Theoretic Approach*
New South Wales Section

**Second prize: 200 USD**
Ali Lalbakhsh, Macquarie University, Australia
Title: *Fully Metallic Wideband Meta-Surface for Near-field Enhancement in High Power Microwave Applications*
New South Wales Section

**Third prize: 100 USD**
Yang Yang Lee, Universiti Sains Malaysia, Malaysia
Title: *Generalizing Image Splicing Detection With Constrained Convolutional Neural Network*
Malaysia Section

**Special prize for WIE: 200 USD**
Ng Pai Chet, Hong Kong University of Science and Technology
Title 1: *Wearable-free Proximity Sensing and Alert System with BLE Beacon*
Title 2: *Interactive Dance with Visual Background Recomposition using BLE Beacons*
Hong Kong Section
Call for Nominations: IEEE MGA Awards

Recognizing Outstanding IEEE Volunteers

You can help recognize the efforts of outstanding volunteers by nominating individuals for one of the prestigious IEEE Member and Geographic Activities (MGA) Awards.

Each award has a unique mission and criteria and offers the opportunity to honor distinguished colleagues, inspiring teachers, and corporate leaders.

If you know someone who has made substantial regional IEEE volunteer contributions through innovative projects, exemplary leadership, service, or by fulfilling the goals as related to transnational activities, consider nominating them for one of the following awards:

- MGA Larry K. Wilson Transnational Award
- MGA Innovation Award
- MGA Leadership Award
- MGA Achievement Award
- MGA Young Professionals Achievement Award

Please visit the MGA Award nomination web page to review the nominator guidelines and eligibility requirements and link to the portal for nominations.

The deadline for nominations is 15 October 2019 (for completed nomination form and two letters of endorsement).

Nominate a colleague now

Please note: MGA awards are peer-recognized awards; therefore, self-nomination is not permitted.

Please e-mail MGA Awards with any questions about the MGA Awards and Recognition Program.
IEEE HAC Conference Participation Program

2019 Call for Applicants

IEEE Humanitarian Activities Committee (HAC) supports strengthening the capacity and impact of IEEE volunteers, staff and OUs involved in sustainable development and humanitarian technology-related activities around the world. IEEE HAC facilitates necessary education and training, builds strategic partnerships, provides funding for projects and events and supports IEEE SIGHT activities.

The IEEE HAC Conference Participation Program will provide a limited number of partial scholarships to support participation at 2019 conferences with a sustainable development and humanitarian technology focus or component. The objective is to facilitate more extensive networking, sharing of experiences and partnership building, and reduce potential economic barriers to participation by IEEE volunteers active in the sustainable development space.

2019 Submission Deadlines:
- 31 January
- 27 February
- 27 March
- 24 April
- 29 May
- 26 June
- 31 July
- 28 August
- 25 September
- 30 October

Please submit via IEEE HAC NEW funding opportunities portal (LINK)

If you have questions or would like to clarify any issues before submitting your application, please contact hac-cpp@ieee.org for more information.

For more information, visit https://www.ieee.org/about/corporate/humanitarian-activities-committee.html
CONFERENCE CALL FOR PAPERS
CONFERENCE CALL FOR PAPERS

IEEE R10 HTC 2019, which is organized and hosted by IEEE Indonesia Section, will be held in Depok at November 12-14, 2019. The theme of the conference, “Advancing Sustainable Green Technologies for Humanities,” is to draw special attention to the societal expectation on humanitarian technologies’ ability to provide practical and lasting solutions.

Topics of interest include, but not limited to:
- Robotics, control systems and automation
- Cloud computing, big data, architecture, mobile and wireless communications
- Optical and photonic communications, optical networks
- Biomedical engineering
- Circuits, systems and signal processing
- Power electronics, machines and drives, high voltage
- Telecommunication technologies
- Semiconductor, photonics and nanotechnology
- Energy and environment
- IoT and enabling technologies
- Information and communication technologies

with the focus on:
- Health care
- Social welfare
- Poverty alleviation
- Education
- Disaster management
- Food and agriculture
- Women empowerment
- Sustainability and environment
- Other humanitarian aspects

Acceptance and presented papers will be submitted to IEEE Xplore.

Important Dates:
- 14 Mar : Tutorial/special session proposal deadline
- 31 Mar : Notification for tutorial/special session
- 2 Apr - 5 Jul : Paper submission
- 15 Mar - 15 Jun : HT Project competition submission
- 1 Aug : HT Project final notification
- 30 Aug : Paper acceptance notification
- 30 Aug - 1 Oct : Registration
- 1 Jul - 1 Oct : Workshop registration
- 1 Oct : Deadline for camera ready paper

Registration Fee:

<table>
<thead>
<tr>
<th>Registration type</th>
<th>International (USD)</th>
<th>Local (IDR)</th>
</tr>
</thead>
<tbody>
<tr>
<td>REGULAR MEMBER</td>
<td>300</td>
<td>3,000,000</td>
</tr>
<tr>
<td>REGULAR NON-MEMBER</td>
<td>350</td>
<td>4,000,000</td>
</tr>
<tr>
<td>STUDENT MEMBER</td>
<td>200</td>
<td>2,000,000</td>
</tr>
<tr>
<td>STUDENT NON-MEMBER</td>
<td>250</td>
<td>2,500,000</td>
</tr>
<tr>
<td>AUDIENCE</td>
<td>150</td>
<td>1,500,000</td>
</tr>
</tbody>
</table>

Additional

<table>
<thead>
<tr>
<th>Additional</th>
<th>International (USD)</th>
<th>Local (IDR)</th>
</tr>
</thead>
<tbody>
<tr>
<td>ADDITIONAL PAPER</td>
<td>150</td>
<td>1,950,000</td>
</tr>
</tbody>
</table>
IEEE Region 10 Symposium (TENSYMP) 2020 will be held on
Hotel Pan Pacific Sonargaon Dhaka, Dhaka, Bangladesh from
05 June to 07 June 2020. This is a prestigious flagship
technical conference of IEEE Region 10.
The theme of TENSYMP 2020 is “Technology for Impactful
Sustainable Development” and its aim is to bring together
individuals conducting project and research to achieve the
United Nation’s 17 global Sustainable Development Goals
(SDGs) to end poverty, protect the planet and ensure that all
people enjoy peace and prosperity.
Prospective authors are invited to submit full paper using
online paper submission system. There will be best paper
awards and a large number of travel grants. All accepted and
presented papers will be submitted to IEEE Xplore®
digital library.
The scope of the conference includes but not limited to the
following areas:
• Antenna, Microwave & RF Engineering
• AI, Computer Networks, Security & ICT
• Biomedical Eng. & Bioinformatics
• Cloud, Big Data & IOT
• Computer Architecture & Systems
• Computer Vision, Graphics & HCI
• Clean Water and Sanitation
• Climate Change and Environment
• Devices, Materials & Processing
• Electrical Machines & Drives
• Ethics and Societal Impacts of Technology
• Emerging Technologies
• Humanitarian Technology
• Nano & Semiconductor Technology
• Photonics Technologies & Applications
• Power Electronics
• Power System & Renewable Energy
• Robotics, Control & Automation
• Software & Database Systems
• Signal, Image & Video Processing
• Sustainable Consumption and Production
• Technology for Quality Education
• VLSI, Circuits & Systems
• Wireless & Optical Communication
• Sensor Technologies and Applications
• Information Technologies
• Communications and Networks
• Computational Intelligence
• Industrial Applications
• Women Empowerment

Partial Travel Grants
A large number of travel grants (50 to 300 USD) are available. Apply during
paper submission and get the result during notification of acceptance.
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.