

IEEE R10 TODAY

MARCH/APRIL ISSUE 2019



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WELCOMING MESSAGES



1. WELCOMING MESSAGES

Message from IEEE Region 10 Director



Dear Region 10 Members,

Unbelievably, almost three months have passed since the beginning of 2019. In these first three months we've held a Region 10 Executive Committee Meeting in January (Singapore) and a Region 10 Annual General Meeting in March (Melbourne).

As you may already have seen on the Region 10 website, I've appointed 28 well-qualified members as constituting the 2019 R10 Executive Committee. At our Executive Committee Meeting in Singapore we agreed both to pursue last year's activities and to plan additional ones for the current year.

These proposed activities were reported and discussed among Section and Council Chairs at the Region 10 Annual General Meeting this month in Melbourne. So, we are now looking forward to a range of stimulating IEEE events over the course of 2019.

This year we'll be holding several major flagship conferences:

- TENSYP in Kolkata in June,
- TENCON in Kochi (Kerala state, India) in October,
- HTC in Jakarta in November.

Industry Forums will be attached to these conferences as well as to other international gatherings slated elsewhere for our Region 10. Choose one or more of the conferences now, verify the deadline, and submit your paper(s).

Whilst international events are useful for expanding our horizons, another good place to initiate IEEE activities is at the local level, whether Section, Chapter, (LM, WIE, and YP) Affinity Groups, or Student Branches, and so forth.

So, do watch for locally supported events and participate fully. I am convinced you'll come away with a positive experience, and you will likely encounter an attractive range of leadership opportunities as well.

Let's participate and enjoy our IEEE lives to the full!

With every good wish,

Akinori Nishihara
IEEE Region 10 Director

Message From IEEE R10 Newsletter Coordinator



Dear Region 10 Members,

It is my pleasure to welcome you to this very first edition of IEEE Region 10 Newsletter for 2019. I would like to take this opportunity to thank Region 10 Director, Akinori Nishihara for trusting me to chair the newsletter committee this year. I would also like to thank the previous newsletter chair, Ravikiran Annaswamy for leaving a very good team and platform for me to continue the editorial work.

For this issue, we received close to 100 activity submissions to choose from. Due to the large number of submissions, regrettably we cannot accept all the articles. For the declined articles, we sincerely apologize to the contributors who had made great efforts to prepare their articles.

IEEE Region 10 is a large unit; it consists of 58 sections, 33 subsections, 6 councils, and more than 2000 chapters, affinity groups, student branches and student branch chapters. It is my mission this year to give as much visibility as possible to all sections and subsections. For the upcoming issues, for transparency, the committee will come up with a clear submission and selection guideline.

Other plans for the newsletter this year include featuring R10 personality and organizational unit of the month, as well as comprehensive coverage of flagship R10 events such as the TENCON, TENSYP and R10-HTC conferences, as well as the SYWL congress.

In this first issue the newsletter also covers the recently concluded IEEE Region 10 Annual General Meeting in Melbourne, Australia, as well as the IEEE Region 10 Excomm Meeting in Singapore. Important highlights from the meeting, including a special article from the R10 Director himself, are presented.

Thanks again for all your support and cooperation and looking forward to another interesting year for the newsletter. I wish to place a special thanks to the R10 newsletter team for their incredible efforts in preparing this first edition. The next page will briefly introduce our team. We are expanding our team, if you wish to become a part of the team do let me know. Finally, your feedback is of great help to us, do send us your comments to r10-ecm@ieee.org.

Mohammad Faizal Ahmad Fauzi
Chair, IEEE R10 Newsletter Committee

2019 Newsletter Committee

Dr. Mohammad Faizal Ahmad Fauzi



Mohammad Faizal received his bachelor degree from Imperial College London in 1999 and doctoral degree from the University of Southampton in 2004. He is currently an Associate Professor at the Faculty of Engineering, while also serving as the Deputy Director for the Collaboration and Innovation Center at Multimedia University, Malaysia. A very active IEEE volunteer since 2007, he served as the Chair for the IEEE Signal Processing Society Malaysia Chapter from 2008 to 2013, and the Chair for the IEEE Malaysia Section from 2017 to 2018. Under his stewardship, the chapter won the inaugural IEEE SPS Chapter of the Year Award in 2011. A member of the 2019 IEEE Region 10 Executive Committee, he currently serves as the chair for the newsletter committee.

Dr. Shaikh Fattah



Shaikh Fattah received his Ph.D. from Concordia University, Canada and was a Postdoc. at Princeton University, USA. He is now Professor, Dept. of EEE and Director, INPE, BUET, Bangladesh. He was the Chair of IEEE Bangladesh Section (2015-16) and General Chair of IEEE R10-HTC 2017. He is the Editorial Board Member of IEEE Access, Editor of IEEE PES Enews and Associate Editor of CSSP Springer. He has published 180+ international journal/conf. papers. He is the recipient of 2016 IEEE MGA Achievement Award, 2018 R10 Outstanding Volunteer Award, and 2017 IEEE R10 HTA Outstanding Volunteer Award. He served various committees of IEEE PES, EAB, SSIT, SIGHT and R10. He is the Education Chair of IEEE Humanitarian Activity Committee (HAC). He is a Senior Member of IEEE and a Fellow of IEB.

Redwan Ferdous



Also known as Farhan. Working as Lead Engineer of Aamra Group, a prominent cellphone manufacturing factory of Bangladesh. Graduated as an Electrical Engineer and has masters in IT and MBA in Finance discipline. Redwan has been actively volunteering at IEEE since 2012 and since then has been actively volunteered in different national & international position. Currently he is Secretary of IEEE PES Bangladesh Chapter. He is also the coordinator of "Bangladesh Robot Olympiad" in his country. In his personal life, he is father of 2 beautiful daughters and loves to work with new technology, IoT, Automation, Robotics, Programming on Embedded Systems. He also writes article in different platform regularly.

Ting Feng



Working as a Product Engineer at Micron Singapore, a company specialized in memory and storage solutions. Graduated with Bachelor of Engineering (Honours) (Electrical Engineering) in University Sains Malaysia in 2016. Currently he is the Lead of Email & Social Media Team in IEEE Region 10 Newsletter. He is also one of the executive committees in IEEE Malaysia Section Young Professionals. He is the champion in 2016 IEEE Region 10 Undergraduate Student Paper Competition and recipient of Best Paper Award at 2016 IEEE Conference on System, Process & Control (ICSPC). His paper "Embedded human detection system based on thermal and infrared sensor for anti-poaching application" was published in IEEE Xplore in 2016.

Sachini Piyoni Ekanayake



Graduated with BSc. (Honours) Eng. degree specialized in Electrical & Electronic Engineering in 2017 from University of Peradeniya, Sri Lanka. After a year of working in the industry as a telecommunication planning engineer at Dialog Axiata, she has recently started her work as a Research Engineer at the same department she graduated. She represented Sri Lanka in a science & technology experience program at Gunma University, Japan in October 2017. Involved in IEEE for 4+ years, she has extended her volunteering career started from student branch level up to international. She was selected as an onsite volunteer with a travel grant for IEEE WIE ILC 2018. Currently, she is contributing mainly to the regular release of the IEEE Region 10 Newsletter. She is also a member of the executive committee, IEEE WIE Sri Lanka.

Special Report on **IEEE R10 MEETING**



2. SPECIAL REPORT ON IEEE R10 MEETING

2019 IEEE Region 10 Executive Committee Meeting



IEEE Region 10 Executive Committee held their 2019 meeting on 12th January 2019 at Hilton Hotel, Singapore. The meeting was attended by all the newly appointed executive committee members of IEEE Region 10 for the year 2019 (refer Table 1) as well as the past executive committee members. The one-day meeting started with pre-meeting during breakfast led by the three vice chairs (VC Professional Activities – Takao Onoye; VC Technical Activities – Sri Niwas Singh, VC Membership Activities – Zia Ahmed), before the proper meeting started at 8am and concluded at 5pm. Singapore Section Chair, Michael Ling Chuen Ong, gave his welcoming remarks, before Past Director, Kukjin Chun summarized the activities and achievements by the Region in 2018. Director Akinori Nishihara then presented his plan for the region for 2019 and 2020.

During the meeting, the activities and plans were presented and were due for review and approval before the R10 AGM on 2nd and 3rd March 2019 at Melbourne, Australia. One of the new initiatives for the year was presented by the R10 Director-Elect Deepak Mathur; to organize a workshop to train prospective conference organizers in Region 10 to ensure and emphasize conference quality. The day concluded with a networking dinner at the Villa @ Botanic Garden.



Table 1: IEEE Region 10 Executive Committee 2019

Region 10 Operations Committee		
1	R10 Director	Akinori Nishihara
2	R10 Past Director	Kukjin Chun
3	R10 Director Elect	Deepak Mathur
4	R10 Secretary	Takako Hashimoto
5	R10 Treasurer	Seishi Takamura
6	R10 Vice-Chair of Membership Activities	Zia Ahmed
7	R10 Vice-Chair of Technical Activities	Sri Niwas Singh
8	R10 Vice-Chair of Professional Activities	Takao Onoye
Region 10 Larger EXCOM		
9	R10 Awards & Recognition Committee Chair	Elmer Dadios
10	R10 Conference & Technical Seminar Committee Chair	Michael, Ling Chuen Ong
11	R10 Educational Activities Committee Chair	Chun Che (Lance) Fung
12	R10 Information Management Committee Chair	Kurnianingsih
13	R10 History Committee Chair	SoYoung Kim
14	R10 Humanitarian Technology Activities Committee Chair	Jing Dong
15	R10 Industry Relations Committee Chair	Gwo Giun (Chris) Lee
16	R10 Life Members Committee Chair	S V Sankaran
17	R10 Membership Development Committee Chair	Parkash Lohana
18	R10 Newsletter Committee Chair	Mohammad Faizal Ahmad Fauzi
19	R10 Professional Activities Committee Chair	Nirmal Nair
20	R10 Section & Chapter Committee Chair	Supavadee Aramvith
21	R10 Strategic Planning Committee Chair	Byung-Gook Park
22	R10 Student Activities Committee Chair	Huynh Thi Thanh Binh
23	R10 Student Representative	Saaveethya Sivakumar
24	R10 Women In Engineering Committee Chair	Emi Yano
25	R10 Young Professionals Committee Chair	Takuo Suzuki
26	R10 Advisory Committee	Lawrence, Wai Choong Wong
27	R10 Advisory Committee	Toshio Fukuda
28	R10 Advisory Committee	Ramakrishna Kappagantu



IEEE region 10 2019 IEEE Region 10 Executive Committee Meeting Membership Activities - 12 January 2019, Singapore IEEE



IEEE region 10 2019 IEEE Region 10 Executive Committee Meeting Technical Activities - 12 January 2019, Singapore IEEE



IEEE region 10 2019 IEEE Region 10 Executive Committee Meeting Professional Activities - 12 January 2019, Singapore IEEE

In conjunction with the meeting, an R10 Technical Seminar was also held on the afternoon of Friday 11th January at the National University of Singapore. The objective of this seminar is to promote IEEE memberships by introducing IEEE activities and giving technical lectures that are relevant to the local economic activities and beneficial to the professional development of the members. Students were encouraged to attend the seminar to grow IEEE memberships in Singapore. R10 Director, Akinori Nishihara chaired this seminar on



Smart Cities. The two R10 EXCOM speakers were Takako Hashimoto (Chiba University of Commerce) and Huynh Thi Thanh Binh (Hanoi University of Science and Technology), along with two local speakers, Stefan Winkler (National University of Singapore) and Justin Dauwels (Nanyang Technological University). There were more than 30 attendees from the local industry and academia.



R10 Technical Seminar at National University of Singapore

2019 IEEE Region 10 Annual General Meeting



IEEE Region 10 Annual General Meeting 2019 was held on 2nd to 3rd March 2019 at Pullman Melbourne Albert Park Hotel, Melbourne. The meeting was attended by 2019 Region 10 Section Chairs and Executive Committee members. IEEE President Jose M F Moura, was also present, along with IEEE Vice President MGA - Francis Grosz, IEEE Executive Director - Stephen Welby, and 2020 President-Elect candidates – Dejan Milojicic and Susan K Land. The first day of the meeting began with addresses by Region 10 Director Akinori Nishihara and IEEE President Jose Moura. R10 Director-Elect Deepak Mathur provided further information on the Conference Leadership Program proposed in the previous R10 Excomm meeting. Four training workshops on student branch empowerment, conference quality, humanitarian projects, and new initiative on special industry track were conducted in the afternoon.

The first day concluded with a poster session where all the R10 Executive Committee members presented their plans for the year. Banquet dinner was held in the evening for networking among meeting delegates, and several awards were officially presented to



2018 R10 awards winners. On the second day, the meeting focused on the report from the region's three flagship conferences (TENCON, TENSYP, HTC) and SYWL Congress held in 2018, as well as the preparation update for the conferences' 2019 and 2020 editions. During the meeting, there was also a motion brought up by the Victorian Section Chair, Alan L Harvey to invite two students from the local host to attend the annual R10 meeting as observer, which was discussed and subsequently approved. A networking tour to the Ballarat Sovereign Hill, a former gold mining village, was arranged in the afternoon. We highlight here some of the important messages from the meeting.



Group photos during the networking tour to Sovereign Hill (left) and Federation Square (right)

Conferences and Technical Seminars

Michael Ong, IEEE Region 10 Conferences and Technical Seminar Chair

This year Region 10 flagship conferences will be held in the following cities:

- ❖ TENSYP 2019 - Kolkata, India, 7-9 June 2019
- ❖ TENCON 2019 - Kochi, India, 17-20 October 2019
- ❖ R10 HTC 2019 - Jakarta, Indonesia, 12-14 November 2019

We are also pleased to announce the following organizational units have been awarded the 2020 R10 flagship conferences:

- ❖ TENSYP 2020 – Bangladesh Section
- ❖ TENCON 2020 – Japan Council
- ❖ R10 HTC 2020 – Sarawak Sub-section

We will work closely with the Membership Development, Student, Young Professionals, Women in Engineering, Professional Activities and Industry Relations coordinators at these conferences to attract new members. We look forward to your support and participation. We would also like to request proposals from Sections to organize R10 POCO this year. Watch out for the call for proposals soon.

Professional Activities

Nirmal Nair (ncnair@ieee.org), IEEE Region 10 Professional Activities Chair

Web: <http://pa.ieeer10.org> email: ieeer10pac@ieee.org

We would like to share with members the overall objectives and 2019 project directions of R10 Professional Activities Committee (PAC). Our objectives 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, (4) Design events for members interested in reaching out for Government Activities & Technical Policy Activities.

Our planned projects/tasks for 2019 are:

- R10 PA Challenge – Invite proposals for initiatives targeted like lifelong learning (non-technical), communication/public speaking skills, developing consultant database etc. particularly for long-term members. (**Watch out for the Call for Proposals by the end of March 2019**)
- Encouraging R10 sections for having a PACE coordinator and develop annual activity calendar.
- SMARTECH/HARDTECH or IEEE Future Direction stand-alone workshops for enhancing R10 members' career and life-long learning needs.
- To have PA tracks or activities during R10 conferences like TENCON, TENSYP and HTC.



Educational Activities

Lance Fung (L.Fung@murdoch.edu.au), IEEE Region 10 Educational Activities Chair

Do you have any Ideas, Plans and Proposals for Education Activities in IEEE Region 10? If yes, you may win up to USD500 plus possibly USD200 to support your project!

Submission Deadline: **April 15, 2019** and Notification of Decision: **May 15, 2019**

IEEE R10 Educational Activities Website: <http://ea.ieeer10.org/>

IEEE R10 EA Challenge Website: <http://ea.ieeer10.org/r10-ea-challenge-2019/>

The IEEE R10 Education Activities Committee announced the 2019 EA Challenge in the recent IEEE R10 Meeting on 2nd March, 2019 at Melbourne, Victoria, Australia. The objectives of the Challenge are to encourage innovative and creative programs which provide values to IEEE members and the exploration/utilisation of IEEE educational resources. It is also expected that the proposals will align with the IEEE's mission and vision, and to encourage collaboration between IEEE units.

There are two categories of entries: Pre-University Education, and, University Education. Winner in each category will receive USD500 or USD300 for runner-up. Evaluation criteria are based on educational outcomes of the proposed program; alignment with IEEE goals; scalability and sustainability of the proposal; metrics or measurement of success and impact of the proposed program; utilisation of IEEE resources, and, support and collaboration with IEEE Organisation Units (OU).

Enquires on details of Challenge, Terms and conditions, and Submissions are to be sent to Lance Fung L.Fung@murdoch.edu.au.

Humanitarian Activities

Jing Dong, IEEE Region 10 Humanitarian Technology Activities Chair

The IEEE R10 Humanitarian Activities Committee (HAC) provides multiple opportunities for IEEE individuals and organizational units (OUs) to apply for and receive funding for projects, events, and conference participation support and awards. We would like to share our overall project directions in 2019 with all members and encourage submissions on time.

Among our projects for 2019 are:

- R10 HAC Proposal Competition (TENHUMCH 2019): Inviting proposals supporting impactful humanitarian activities at the local level, the proposals must demonstrate consultation with and a clear understanding of the needs of target communities, and demonstrate a needs-driven approach to strengthening local capacity through technology deployment. The R10 HAC committee will review all submissions and support the best proposal up to USD5000. The representative of the best project may be invited to R10 HTC for their presentation.
- To assist the R10 HTC & HT track in R10 Flagship Event (such as HTC, TENCON, TENSYP): Proposals are encouraged to be submitted across sections. USD400 will be funded for each activity.
- Engage SIGHT: The objective of this project is to mentor new SIGHT formation and conduct discussion/training on SIGHT volunteers, especially in collaboration with IEEE local OUs. Training/discussion will be made online.
- 2019 HAC Awards and Recognition: Implement and administer 2 categories of awards: 1) R10 Outstanding HAC Section Award and 2) R10 Outstanding HAC Individual Award to recognize significant work and projects done by IEEE R10 Sections and individual members.

Thank you for supporting R10 HAC!!!

Women in Engineering (WIE)

Emi Yano, IEEE Region 10 WIE Chair

IEEE WIE is one of the world's leaders in changing the face of engineering. Currently 12,000 WIE members are active and distributed among 410 Affinity Groups (42 Sections/Council and 368 Student Branches) in Region 10. I am delighted to work with you all, 8 committee members & supporting volunteer members, affinity group chairs and active WIE members in R10. Region 10 WIE Committee promote activities relevant to female professionals/students such as leadership skills, personal development and knowledge sharing for professional development. Our objectives are: (1) Promote women involvement in science and engineering in R10, (2) Facilitate the development of supporting program and activities of WIE in R10, (3) Enhance networking and knowledge sharing of WIE, (4) Recognize WIE's outstanding achievement in R10 and promote nominations for MGA awards from R10.

Among our projects for 2019 are:

1. **WIE Engagement Project:** We have 17 sections without WIE Affinity Group in R10. WIE Engagement Program is aiming to promote R10 Section WIE Affinity Groups initiatives as well as WIE membership development and retention. We will support the establishment of new WIE Affinity Groups, and motivate and guide less active or inactive groups in performing activities. We will also encourage and guide inactive WIE affinity groups and engage them in activities via networking and connecting with each other through website and social media.
2. **WIE Change Makers - Opportunities to attend WIE ILS (partial travel funding):** We will offer partial travel funding to WIE volunteer members for attending IEEE WIE International Leadership Summit 2019 in Bangalore/Beijing/Islamabad. This will provide opportunities for active volunteers to meet & learn from successful people, especially from women who have successfully built their careers. It is also hoped that attendees will take back the knowledge gained at the summits to implement best practices in their Sections, Student Branches, and Affinity Groups.
3. **WIE Visibility Enhancement through R10 Events:** We will promote networking, sharing of knowledge and launch new initiatives to support R10 WIE objectives through R10 flagship conferences. We will support WIE track at TENCON/TENSYMP/HTC and WIE track across sections.
** Based on R10 Strategy in 2019, R10 WIE Committee will NOT provide WIE Support Fund for single section events/projects.
4. **2019 IEEE R10 WIE Awards:** IEEE R10 WIE will identify outstanding WIE Affinity Groups, Student Branch WIE Affinity Groups and outstanding WIE volunteers (student/professional) for IEEE R10 WIE awards. 2019 R10 WIE awards are for activity/contributions during 2018.

Let us all work together to change the world!

Young Professionals

Takuo Suzuki, IEEE Region 10 YP Chair

R10 Young Professionals Committee set the following three objectives for 2019:

1. Align YP activities with R10 and MGA goals
2. Encourage the establishment of a YP affinity group in Sections which do not have one
3. Nurture future YP leaders for the sustainable development of YP affinity groups

The first objective is to collaborate with other R10 committees such as the Student Activities Committee and the Industry Relations Committee for the future of IEEE. The second objective is to extend the YP's network in R10 and the third objective is to strengthen the network of active and incoming YP volunteers. To achieve the above objectives, we are implementing three projects below.

A) Positive utilization of online communication platform to strengthen YPs' network

We will make an official group of YP chairs in R10 on Collabratec to directly communicate and collaborate with each other. And we will recommend reporting YP activities to Collabratec in addition to YPs' favorite SNSs to share examples of best practice and tips on how to host activities.

B) On-line and on-site training programs for active and incoming YP volunteers

We will organize on-line training programs about IEEE tools such as Collabratec, vTools, and WebEx. Besides, we will encourage on-site membership development events with the help of Senior and Life members, especially in Sections which do not have a YP AG for its establishment.

C) Enhancement of YP-Industry Interaction

We will invite technical experts from across R10 to give webinars on topics of interest to YPs in order to enhance member value. Additionally, we will encourage YP AGs to conduct local technical seminars for professional development, leadership skills improvement, etc. with industries.

We are working out the details of financial support for on-site membership development events and local technical seminars with industries, so please wait for further information. Thank you!

Student Activities

Huynh Thi Thanh Binh, IEEE Region 10 Student Activities Chair

The Region 10 Student Activities Committee takes care of the needs of 45,000+ student members spread over 1250+ student branches in the Asia-Pacific region (R10) of the IEEE. The committee conducts regular and special activities for students to improve technical knowledge and management skills and to enhance networking among members and student branches.

Our objectives are: (1) Improve student engagement in IEEE R10 SAC activities, (2) Improve student member retention rate in R10, (3) Progress students to Young Professionals transitions.

We proposed some projects below:

1. Contests:
 - Postgraduate Paper Contest: Aims to improve the engineering students' written communication skills and reporting research results to science & technology community. The contest will facilitate the recognition of these skills and encourage other student members to develop technical, written and verbal communication skills.
 - Student Website Contest: Aims to motivate student volunteers to use electronic media
 - Undergraduate Project Video Contest: Aims to improve the engineering students' communication and presentation skills to a wider online viewing community
2. Awards: Three awards will be considered, IEEE Region 10 SAC Student Branch Award, IEEE Region 10 SAC Volunteer Award, IEEE Region 10 SAC Student Volunteer Award. The purpose of these awards is to recognize the work done by individual IEEE members in (a) their service to members and (b) increasing student membership by conducting activities beneficial to student members.
3. SAC Student Ambassador Program: To reach out to inactive sections/student branches locally via appointment of student ambassadors.
4. Joint SB Initiative: The initiative is targeted so that the newly revived student branches (SBs) will have guidance after revamping the committee in order to make it active.
5. Webinar Series

Celebration of International Women's Day 2019

Fatemeh Jalali (Chair, IEEE Victorian Section WIE / Member, IEEE R10 WIE Committee)

In conjunction with the AGM, the IEEE WIE Victorian Section (Australia) committee members met with the female committee members of IEEE Region 10 in Melbourne for an early celebration of International Women's Day on Friday 1st March.

It was a great opportunity for both the IEEE WIE Victorian Section and the IEEE R10 committee to meet in person and know more about potential activities, events and grants, as well as other opportunities. The diverse backgrounds of the attendees, in terms of age, country, technical background etc. made this event a fantastic networking event for the attendees to learn from each other and share their experiences, stories and tips on how to be successful in engineering and ICT.

The event received positive feedback from both experienced IEEE members (with more than 20 years of IEEE involvement) and new IEEE members (with only a few months of IEEE involvements).



International Women's Day Celebration by WIE

IEEE Region 10 Student Meetup in Melbourne Australia

Saaveethya Sivakumar (Region 10 Student Representative)

One of the main goals of IEEE R10 Student Activities Committee (SAC) is to understand the needs of our student member community and to cater them to our best potential. Aligning to our goal, on 4th March 2019 (the day after the AGM), the R10 SAC in collaboration with the Victorian Section organized a student meetup at RMIT Melbourne University.

It was a successful sharing session between Victorian Section student branch leaders and R10 Student Activities Committee. R10 SAC Chair, Huynh Thanh Binh and R10 Regional Student Representative, Saaveethya Sivakumar represented R10 SAC whereas Victorian Section Chair, Alan Harvey and Victorian Section Student Representative, Honey Shirley Sabu were present on behalf of the Section SAC. Furthermore, student leaders from RMIT University, La Trobe University and Melbourne University were among the attendees.

Issues faced by student branches such as recruitment of new student members, membership retention, upcoming activities, competitions and awards were among the prominent topics discussed. The students were informed on the resources to seek latest information such as IEEE and Region 10 websites and social media. The participants were also introduced to Student Branch Chapters, Affinity Groups and the importance of student to young professional transitions. A special sharing session on IEEE MGA Student Awards and IEEE IAS CMD Humanitarian Program Project Contest were also conducted.



IEEE Region 10 Student Meetup



SECTION SUBSECTIONS COUNCIL ACTIVITIES

3. SECTION / SUBSECTIONS / COUNCIL ACTIVITIES

Bombay Section:

Engineer's Day Celebration

Satyanarayana Bheesette, Secretary, Bombay Section

On the Engineer's Day 2018, three engineers from Team Indus shared their exciting experiences of building a moonshot (the micro-class exploration rover tailored to explore the lunar surface) – from the science and engineering behind the mission to the challenges of building a spacecraft and a space-grade rover. They demonstrated a working rover and instruments that they designed as part of the project. Three back-to-back events were organized on three consecutive days for three different types of audience - (a). At Tata Institute of Fundamental Research, Colaba on Sep 14th, 2018 for Scientists, (b). At Don Bosco Institute of Technology, Kurla (W) on Sep 15th, 2018 for academicians and students and (c). At D. G. Ruparel College of Arts, Science and Commerce, Matunga (W) on Sep 16, 2018 for local public of all ages. About 1000 in total participated in these string of events.



Lahore Section:

Section's Golden Jubilee Celebration (1968-2018)

Muhammad Ahmad Saleem, Chairperson, IEEE-NUCES Lahore SB, Lahore Section

IEEE Lahore Section's Golden Jubilee Celebration event was held on 12th January 2019 at FAST-NUCES Lahore and it was conducted by IEEE-NUCES Lahore SB.



Lahore Section has been contributing towards advancing technology for humanity since it was established in 1968. The ceremony was attended by professionals from different fields and professors from various academic institutes of Pakistan. Respected members shared their experiences and reflected their views on the impact that IEEE Lahore section has had not only on their career but also

on their personal development. IEEE souvenirs were presented to distinguish guests and a cake was cut for the 50th Anniversary of IEEE LAHORE SECTION, from 1968 to 2018.

LSYWTC'19 - Lahore SYW Technical Congress

Muhammad Imran, Chairperson, IEEE UET SB, Lahore Section

IEEE Lahore Student Young Professionals Women-in-Engineering Technical Congress (LSYWTC) along with the celebrations of Lahore Section's Silver Jubilee was held on 26th January 2019 at the University of Engineering and Technology, Lahore. The event featured educational activities, IEEE panel meeting with industrialists, humanitarian session, IEEE YP Meet Up, Student Activities Chairs' and Counsellors' meet up, WIE



roundtable and a session on PEC Washington Accord and Scholarship Opportunities. The event was concluded with keynote sessions, award distribution and a cake cutting ceremony to mark the spectacular fifty years performance of the IEEE Lahore Section.

Karachi Section:

IEEE VOLT & S-PAA Event

Moiz Rahman Memon, Member, Exec. Committee, Karachi Section

The 3rd IEEE Volunteer Leadership Training and Student Professional Awareness Activities event for the year 2018 was organized by SAC, IEEE Karachi Section in collaboration with IEEE Iqra Uni SB. It was held on Saturday 20th October 2018. A total of 37 participants from various Student Branches of IEEE Karachi Section including IEEE-DHA Suffa Uni, IEEE-HIIT etc. attended the event. The topics covered by the speakers included IEEE Code of Ethics & Section Norms, Efficient Student Branch Governance, Service to Humanity, Awareness about Technical Chapters & Affinity Groups etc. A training on vTools OU Analytics was also arranged for Branch Counselors and Chairs of the participating Student Branches.



Hiroshima Section:

The 20th IEEE Hiroshima Section Student Symposium (HISS)

Chisa Takano, Secretary, Hiroshima Section

The 20th IEEE Hiroshima Section Student Symposium (HISS) was held on December 17-18, 2018 at Tottori University, Japan. HISS has two special characteristics; one is that students



themselves carry out the planning and management of the symposium, and the other is that all the technical papers in HISS are presented by students in interactive sessions. The main theme of each HISS would be decided by the students. And also, based on the interest with students' point of view, the topics of the Keynote Speech and the Technical Lecture in HISS were selected. This year, there were 280 participants across two days. In addition to 101 technical presentations, one keynote speech by Associate Prof. Daisuke Kushida from Tottori University, and presentations from three industrial companies, six academic laboratories and three high-school students were conducted.

Hiroshima Section 20th Anniversary Celebration Symposium

Chisa Takano , Secretary, Hiroshima Section

Hiroshima Section 20th Anniversary Celebration Symposium was held at Tottori University on November 16, 2018. In this symposium, Prof. Toshitaka Tsuda, the Chair of IEEE Japan Council in 2018, gave the special talk. In addition, six successive chairs of IEEE Hiroshima Section introduced the history of Hiroshima Section. One keynote and four invited



talks were also conducted from academia, student branch, women in engineering, industrial professional, and SMC Hiroshima Chapter.

Islamabad Section:

Industry Relations Conducted Coding Weekends

Muhammad Ahsan Farooqui, Chair, Industry Relations, Islamabad Section

An MOU was signed between IEEE Islamabad Section's industry relations team and Dice Analytics, a leading company based in Islamabad that offers trainings on Big Data, Data Warehousing, Data Science etc. The MOU was signed between Mr. Ahsan Farooqui, Chair Industry Relations IEEE Islamabad Section

and Mr. Umer Chaudhary, CEO Dice Analytics on 4th January 2019. As per the MOU, the first episode of Coding Weekends was held on 12th, 19th and 26th January 2019. The 9-hour long workshop covered the end to end flow of Data Science. Moreover, a slack group was formed for further help. Mr. Ahsan Farooqui and Mr. Zubair, the instructor and trainer, handed over the certificates to the participants of the workshop.



Workshops and Seminars at RIMMS

Noshewan Shoaib, Chair, Islamabad Section Joint Chapter, AP03/MTT17/EMC27

The Research Institute for Microwave and Millimeter-Wave Studies (RIMMS) organized a 5-day “IEEE EMC/EMI Workshop” at RIMMS-NUST on 27th – 31st August 2018, focusing on design techniques to build EMC/EMI compliant systems. It also offered hands-on training sessions. The speakers include Dr. Noshewan Shoaib, Mr. Ahmed Shafqat, Ms. Maira Islam and Mr. Ayaz Zakir from RIMMS-NUST. International speakers from reputed industries in China and Germany delivered their talks via SKYPE.



NUST RIMMS also organized a 2-day visit of IEEE Antenna & Propagation Society (APS) Distinguished Lecturer, Prof. Dr. Yahia Antar, from the Royal Military College of Canada on 5th – 6th November 2018. Dr. Antar is a Fellow of the IEEE and a Fellow of the Engineering Institute of Canada (FEIC).



The Joint Chapter along with Design for Pakistan conducted an interactive design thinking workshop at RIMMS with world class content from Stanford dSchool, OpenIDEO, +Acumen and Design for America on 31st January 2019. The speaker, Ahsaan Rizvi, is a Fulbright alumnus and currently serves at Bell Canada.



NUST RIMMS in collaboration with Computer Simulation Technology (CST)[®], Germany organized “International CST Workshop on EM Solvers and Antenna Design” on 26 Sept, 2017. The technical talks were given by International CST officials, Dr. El-Hadidy and Engr. Yasmine. Dr. El-Hadidy is the General Manager of CST Middle East and the research group leader/teaching director at University of Duisburg-Essen, Germany. The workshop witnessed an excellent participant of more than 150 persons including graduate students, faculty members from various universities and professionals from private and government sector organizations.



India Council:

Tutorials cum Workshop on AI & ML

Satyanarayana Bheesette, Secretary, Bombay Section

India Council in collaboration with the IEEE Bombay Section organized a day-and-a-half long ‘Tutorials cum Workshop on AI & ML’ during 10th – 11th August 2018. The local host and the venue for this edition is the Centre for Technology and Innovation Management, NITIE, Mumbai. The event was supported by the IEEE Technology and Engineering Management Society (TEMS) as well as the Standards Association



(SA). Distinguished researchers as well as experts from industry and academia gave insights on AI, machine learning and deep learning frameworks, algorithms and applications of ML and DL in different sectors. They also covered challenges and opportunities using these cutting edge technologies. There were two tutorials and six lecture sessions. The participated audience mainly comprised of data scientists, data analysts, automation, manufacturing, finance and other industry application users, faculties and students. About 150 participants in all have attended the event.



AFFINITY GROUPS (WIE/Y P/LM) ACTIVITIES

4. AFFINITY GROUPS (WIE/YP/LM) ACTIVITIES

Women in Engineering (WIE) Activities:

WIE AG Malaysia Hosted the IEEE Malaysia Section AGM Dinner

Azrina Abd Aziz, WIE Executive Committee, IEEE WIE AG Malaysia, Malaysia Section

On 19th January 2019, the IEEE-WIE Affinity Group, Malaysia has proudly hosted the 2019 IEEE Malaysia Section Annual General Meeting (AGM) Dinner for the second consecutive year at Dorsett Hotel, Putrajaya, Malaysia. This event has grown to become one of the most popular occasions during the Section's AGM. It marks the close of a year of activities and the beginning of a new one. This event aims to promote collaborative networking opportunities and commemorate the continuous support of members



with a buffet dinner featuring delicious cuisines. Almost 220 professionals from industry and academic, and IEEE student members attended the dinner. The event was officiated by Associate Professor Ir. Dr. Fawnizu, the newly elected IEEE Malaysia Section Chair for the Year of 2019/2020. The award giving ceremony, selfie-contest, performance and lucky draw were fun activities organized by IEEE-WIE for the guests.

IEEE WIE International Leadership Summit 2018 Tokyo

Emi Yano, IEEE Japan Council WIE Past Chair, Japan Council WIE, Japan Council



On 9th and 10th November 2019, the IEEE Japan Council WIE organized the IEEE WIE International Leadership Summit (ILS) 2018 Tokyo at the Shibaura Institute of Technology. This 2-day event attracted more than 150 participants and was a great success. The main theme of this summit was "My Life, My Career." With the spread of diversification and globalization, this summit supports the career

development of female engineers and researchers, while enabling them to participate in their preferred activities and offering them opportunities for networking and collaboration. A total of 37 guest speakers appeared on the stage, who were not only Japanese residents, but also speakers from the United States, India, Malaysia, Dubai, and Iraq. These diverse lecturers gave wonderful presentations based on their actual experience, and lively discussion was held with the participants. They made a deep impression and provided energy to the many attendees.

IEEE WIE ILS Brisbane 2018

Marie-Luise Wille, WIE Vice-Chair, WIE AG, Queensland Section

A very successful ILS was held in Brisbane, Australia, in November 2018. Both days started with a plenary session presented by the honourable Trish White, National President of Engineers Australia on Day 1, and Dr. Cathy Foley, Chief Scientist CSIRO on Day 2, and continued with a mix of panel discussions and workshops with the aim to engage and empower women and men. Topics included 'CV for



success', 'personal development needs for female engineers as leaders', and 'the role of male engineers to support gender diversity'. The 'power of social media' workshop was complemented by a photographer who took professional head shots of the participants. Around 100 delegates contributed to the panel discussions about 'Gender Equity' and 'Gender Diversity on the Work Floor' with panelists from academia, industry, and government organizations. The ILS Brisbane was supported by nine sponsors, including Energex Queensland, Australian Power Institute, Powerlink, and major Australian Universities.

IEEE Women In Engineering International Leadership Summit Dhaka 2018

Celia Shahnaz, Bangladesh Section

The Women in Engineering (WIE) Affinity Group of IEEE Bangladesh Section organized their first ever "IEEE Women in Engineering International Leadership Summit (ILS) 2018" from 12th – 13th October 2018 in Dhaka, Bangladesh with the theme "Dream| Believe| Achieve |Empower".

A total of 55 speakers including 13 foreign speakers from 8 different countries, namely USA, Canada, Malaysia, Singapore, Indonesia, India, Sri Lanka, and Bangladesh, with more than 300 delegates took part in the summit. General Chair of the summit was Prof. Dr. Celia Shahnaz.

There were diversified sessions on entrepreneurship, leadership, innovation, inspiration, emerging medical research for women, emerging technology, role of women in power, empowerment, access to information, role of women in signal processing, professional challenges, industry and business engagement, demystifying nuclear power, and role of women in computational



intelligence. Apart from the Teacher-in-Service Program, (TISP), to inspire more women in humanitarian technology-based activities, IEEE HAC funded “**International Humanitarian Technology Project Competition (WIE-IHTPC)**” was also organized.

Young Professionals (YP) Activities:

Student Transition and Elevation Partnership (STEP) Program

Rafid Azad, Publications Coordinator, IEEE AIUB SB, Bangladesh Section

On 6th October 2018, for the second time in Bangladesh Section, IEEE AIUB Student Branch in association with IEEE Bangladesh Section and IEEE Young Professionals Bangladesh successfully organized

IEEE Student Transition and Elevation Partnership (STEP), at the American International University-Bangladesh (AIUB). The flagship



event consisted of an array of seminars, workshops and interactive session, in order to make the transition from student life to a professional world more suited. Section leaders including Section Chair Dr. Celia Shahnaz, Section executive Committee Members, YP Chair and YP-Execom Members, young professionals, and students from various universities participated in the event. It guided and helped them to learn about the opportunities and benefits of IEEE membership during the onset of a STEM career, the different perspectives of the real world and how they can contribute to society with their work.

IEEE Young Professionals Sri Lanka Annual General Meeting 2019

Rajitha de Silva, Secretary, IEEE Young Professionals Sri Lanka, Sri Lanka Section

IEEE Young Professionals Sri Lanka Annual General meeting (AGM) was held on 6th February 2019 at Renuka City Hotel, Colombo, Sri Lanka. Mr. Dileepa Karunaratna, Assistant Director - Tariff & Economic Affairs, Public Utilities Commission of Sri Lanka (PUCSL) appeared as the Chief Guest for the event, delivering an inspiring



speech on "How to face obstacles as a newbie in the industry". The evening commenced with the presentation of the activity and financial report for 2018/19. Following that, the current chairman Mr. Nadarajah Dheynoshan appointed the IEEE Young Professionals Sri Lanka executive committee for the year 2019/20. The meeting was adjourned with Mr. Chandana Munasinghe, the newly appointed chairman for the year 2019/20 addressing the gathering.

Heading For The Next 10 Years!

Takashi Yoshida, Chair, Tokyo Young Professionals, Tokyo Section

Tokyo Young Professionals (Tokyo YP) was established in November 2008. Tokyo YP therefore celebrated their 10th anniversary in "Tokyo YP 10th Anniversary Congress" in December 2018. In the congress, key speakers shared their motivation and experience with Tokyo YP members. Then, all the participants were divided into several groups, and each group discussed Tokyo YP's potential future activities



under the theme "If I am Tokyo YP Chair". After the discussion, each group shared their opinions and plans. Through the congress, participants mainly got two takeaways; (1) Tokyo YP should be a place not only connecting student to their professional stage but connecting student members, Women in Engineering members, Life members and post YP members; (2) Tokyo YP should be a place for YP volunteers to grow up with enjoyment! 2019 is the 1st step of Tokyo YP's second stage, in which the Tokyo YP is heading for the next 10 years!

Updates from Young Professionals AG Islamabad

M. Saeed Ul Hassan Raza, General Secretary, Young Professionals Islamabad, Islamabad Section

IEEE Young Professionals Islamabad successfully organized their Annual AGM on 5th January 2019 at Mordor Cafe. Islamabad Section Chair Dr. Aamir Qayyum and Secretary/Treasurer Dr. Arshad Islam along with Ex-YP Team 2018 and New-YP Team 2019-20 were invited. Apart from regular activities, acknowledgement was noted for collaborating universities in 2018 and there was signing 20% off MOU with Mordor Cafe Islamabad/Rawalpindi for



all GSM & YP members to encourage IEEE membership growth. The new Excom are: Mr. Muhammad Moeiz Chaudhary (Chairperson), Dr. Mohsin Tiwana (Vice Chairperson), Mr. M. Saeed ul Hassan Raza (General Secretary), and Ms. Hifza Marij (Treasurer).

Later, two-week long open volunteer recruitment drive was called to invite volunteers to become part of Young Professionals Islamabad Team for 2019-2020. The EME TECHATHON 2019 held during 10th - 13th January 2019 featured over 60 teams consisting of over 200 of the best engineering minds from all around country. The TECHATHON five themes were: Internet of Things (IoT), Cloud Based Solutions, Renewable Energy Solutions, Solid Waste Management Solutions and Biomedical Solutions. Participants gave 1-minute idea pitch session and then worked on their ideas and finally gave presentations to panels of highly qualified judges & CEOs. There was also a seminar and some awards.

Life Members Affinity Group (LMAG) Activities:

Technical Tour to IEEE Milestone Recipient by LMAG

Naohisa Ohta Secretary, LMAG-Tokyo, Tokyo Section

The LMAG-Tokyo organized a technical tour to “Nobe-yama 45-meter Radio Telescope (2017 IEEE Milestone)” located in Nagano Prefecture, Japan, on 20th September 2018, co-sponsored by the History Committee and TPC of IEEE Tokyo Section. Eighteen participants enjoyed this half-day tour.

First, K. Tatematsu, a professor of National Astronomical Observatory explained the configuration of the Radio Telescope, and clarified the meanings of various frequencies from radio wave, light, X-ray and gamma ray from astronomical point of view. Then the participants moved to the 45-meter Radio Telescope and the room for measurement and operation. The facilities were completed in 1982, being the world biggest, and it enabled the observation of mm wavelength up to 150 GHz for the first time in the world. They also had a look at the mm wavelength interferometer and a heliograph followed by the exhibition room visit. Lastly, a social gathering was held outside the observatory. (For further details, see https://www.ieee-jp.org/section/tokyo/lmag/newsletter/2018/23_e.pdf).





STUDENT BRANCH ACTIVITIES

5. STUDENT BRANCH ACTIVITIES

Bangladesh Section:

Industrial Tour, Seminar and SPAVe

Rafid Azad, Publications Coordinator, IEEE AIUB SB, Bangladesh Section

On 15th November 2018, IEEE AIUB SB in collaboration with IEEE CS AIUB SB Chapter organized a seminar on “Future Scopes of Firmware Engineering” at AIUB. The seminar was conducted by Parvez Mahmood, Director, ICEL Ltd., Mohsinul Bari Sakir, Embedded System Firmware Engineer, Signal Stream Inc. Canada and Shamrat Apu Gazi, Junior Firmware Developer, Signal Stream Inc. Canada.

On 17th November 2018, IEEE AIUB SB in collaboration with IEEE IAS AIUB SB Chapter & IEEE AIUB SB WIE AG organized an industrial tour to Max Power Limited: 78.5 MW Gas-Based Power Plant of MAX Group situated at Narshingdi.

On 1st December 2018, IEEE Student Professional Awareness Venture (SPAVe) was organized by IEEE AIUB SB in association with IEEE, IEEE Bangladesh Section, IEEE Young Professionals Bangladesh, and IEEE BDS Professional Activity Committee at AIUB. Students from different universities across the country participated the event



Workshops on “Playing with Pixels” & “Basic Robotics & Basic RC Robot”

Mohammad Rayed, Secretary, IEEE NSU RAS SB Chapter, Bangladesh Section

IEEE NSU RAS SBC organized a day-long workshop on “Playing with Pixels” on the occasion of IEEE Day at NSU on 3rd October 2018. Twenty-five students participated in the event. The workshop was conducted by Hasib Zunair, former Chair, and supervised by Md. Tanzil Shahria, Chair of IEEE NSU RAS SBC.



A workshop on “Basic Robotics & Basic RC Robot” was organized at NSU on 14th March 2018 with 18 participants. The workshop was conducted by four RAS members, Mohammad Rayed, Soumic Shekhar, Mohammad Ali Siddique and Jannatun Nayeem under the supervision of Md. Tanzil Shahria, Chair of IEEE NSU RAS SBC. Participants were shown how to build a RC robot from scratch with some fundamentals. Certificates were provided in both workshops.

IEEE SS12 Innovation Challenge and Maker Fair 2018

Shaila Alam Urmi, Secretary, IEEE WIE Student Branch Affinity Group, RUET, Bangladesh Section

With the association of Dept. of ECE, IEEE RUET Student Branch hosted the contest “The Ultimate Innovator Hunt” on 13th July 2018 with 60 participants at RUET. Prof. Dr. Md. Nazrul Islam Mondal, Prof. Dr. Ajay Krishno Sarkar, and Ms. Tasnim Binte Shawkat judged the projects and imparted suggestions. Prof. Ramalatha Marimuthu, the SS12 Chair delivered her valuable speech online. The champion and runner-up teams were given cash prizes, and also took part in the IEEE SS12 Innovation Challenge and Maker Fair 2018’s



“Maker Fair” track which was held in Colombo, Sri Lanka in September 2018. One of the selected teams “Team Drogon” achieved 5th place in the final round of “Maker Fair” track in Sri Lanka.

Executive Committee Farewell Program Held at UAP

Jannatul Ferdaus Jumma, Document Writer IEEE SB, University of Asia Pacific, Bangladesh Section

On 31st January 2019, the IEEE University of Asia Pacific SB in collaboration with the Project Club, EEE of the respective university conducted a farewell program for their former executive committee. Speakers were the Department Head Dr. Tapan Kumar Chakraborty, Project Club convener Md. Khairul Alam, SB counselor Md. Sazzadur Rahman and valedictory chairs of IEEE SB and WIE AG, UAP. The previous ex-com members were awarded with crests and certificates and new ex-com for 2019-2020 was announced. The event ended with cake cutting session.



Pune Section:

IEEE DYPIEMR Student Branch

Sushama Shelke, SB Counselor, STB11442, Pune Section

IEEE Student Branch (STB 11442) is established at Dr. D. Y. Patil Institute of Engineering Management and Research (DYPIEMR) on 10th January 2019. The inaugural ceremony of the IEEE SB was organized by E & TC department on 30th January 2019. The event was graced by Chief Guest Dr. Pradeep Mane, Students Activity Committee (SAC) Chair, Honorable Guests Prof. Mandar Khurjekar, Conferences Chair, and Mr. Jagdish Chaudhari, Pune Section Member. Finally the unveiling of SB by cutting a ribbon and badge distribution to IEEE student branch members was done.



A guest lecture on “Virtual Reality & Augmented Reality” was organized by the Student Branch in E&TC Dept. The lecture was conducted by Mr. Nikhil Deshmukh, CEO at Enigma Virtulux LLP and Enigma Automation. The main objective of this guest lecture was to make students aware with the new technology of virtual reality & augmented reality. A workshop on “PC Hardware” was also held by the same SB in E&TC Dept on 28th January 2019.



Lahore Section:

All Pakistan Electrical Symposium, APES'2018

Muhammad Imran, Chairperson, IEEE UET SB, Lahore Section

IEEE UET Lahore SB made its mark yet again by organizing the All Pakistan Electrical Symposium, APES'2018. The event is arranged every year to promote learning and provide research opportunities to students who are keen to sail through new horizons of electrical engineering. The conference featured a number of modules concerning power, electronics, computer, robotics, artificial intelligence, networking and Internet of Things. The young professionals also benefitted from the very informative talks by renowned international speakers. Its distinguishable features included tours to Mentor Graphics, Punjab Safe Cities Authority and CERAD, an industrial exhibition and round table talks regarding Women in Engineering, industry-academia linkage and humanitarianism. The biggest breakthrough was the signing of MoUs with highly competent companies like Solar Sigma, Power Planners International and KAPCO Ltd. The event was a roaring success with over 500 participants, 2000 visitors, 16 companies and 20 speakers at the campus.



Dam Fund Raising Activities

Muhammad Ahmad Saleem, Chairperson, IEEE-NUCES Lahore SB, Lahore Section

Fund raising activity was conducted by IEEE-NUCES Lahore SB on 26th -28th November 2018 at FAST-NUCES Lahore for the construction of Bhasha and Mohmand Dams and to play a constructive and responsible role as part of a social cause for society. It included "Buzzer wire Game", "Minute to win it", bake sale and PS3 gaming. The winner was awarded with prizes such as IEEE merchandise.



Bangalore Section:

Workshop on Robotics and Robo-Race: IEEE JCE SB

Krupa Rasane, WIE SB Counselor, Bangalore Section

A workshop on robotics was held on 13th and 14th October 2018 by IEEE JCE SB especially for 3rd semester students to get basic knowledge of robotics and to start designing and assembling level 1 wired robot. A total of 19 teams (76 students) participated in the workshop. The workshop was conducted by resource person Prof. Ganesh Awati and Prof. Sushma Kamat. The session started with the presentation on robotics and the kit components followed by assembling the kit procedure. The resource person provided information regarding the compatibility of the various components and how the components can be reused. The event was followed by ROBO RACE and the winners were awarded with prizes. The students were felicitated at the end of the second day.



ROBOTICS 11

Priyakrishnamurthy, IEEE-SJCE, Student Coordinator, Bangalore Section

IEEE-SJCE conducted a workshop ROBOTICS-11 to bridge the gap between the curriculum and industry by exposing young students to the world of robotics. The five-day workshop was conducted from 16th to 20th January 2019. The workshop was attended by 145 participants and over 40 volunteers. Students were taught about the basics of microcontroller programming, key aspects of robot maneuvering using various modules like ultrasonic, DTMF and motor control using drivers. This workshop helped students gain a fresh perspective about robot-building and coding for robot control. The workshop was well received by the enthusiastic participants.



New South Wales Section:

Our Achievements and Initiatives

Khushboo Singh, Chair, Macquarie University SB, New South Wales Section

IEEE Macquarie University SB continued the expansion of its societies and activities at Macquarie University by adding two new chapters: IEEE- IAS and IEEE-PES. Different IEEE affinity groups were actively working at Macquarie University including WIE Affinity group, IEEE MTTS Chapter, IEEE NSW AP/MTT Chapter and IEEE Young Professionals.

- NSW Outstanding Volunteer – Prof Subhas Mukhopadhyay (Macquarie University, Australia) for his outstanding contributions to IEEE Sensors Council, IEEE IMS society and IEEE NSW.
- NSW Outstanding Young Professional – Dr. Raheel Hashmi (Macquarie University, Australia) for excellence in leadership and contributions to IEEE Young Professionals and IEEE in New South Wales.
- Commendation Young Professional – Dr. Sudipta Chakraborty (Macquarie University, Australia) for her contributions to IEEE in NSW, the Education Chapter and Women in Engineering Education.
- 2nd Place Student Branch Competition – Macquarie University.
- Region 10 Student Paper Contest Winners – 1st Place Postgraduate: Ali Lalbakhsh (Macquarie University, Australia).



Bombay Section:

Workshop on IoT, Embedded and Robotics

MukeshVerma, SB Chair, Chapter, Bombay Section

In association with IEEE MGMCET Student Branch, Bombay Section, Innovians Technologies collaborated with Technex'19 IIT Varanasi to organize a workshop on Embedded System & Robotics with Embedded 'C' using Arduino AVR microcontrollers for students. AVR microcontrollers are often used for prototyping and robotics projects. The Branch Counselor of IEEE MGMCET Student Branch, Mrs. Neda Khan graced the student with her presence throughout the seminars.



Islamabad Section:

Al-Funoon Gala, Islamabad Section Awards Ceremony & Branch Chairs Meet Up

M Zeeshan Javed, Chairpesron, IEEE CUST SB, Islamabad Section

"Al-Funoon Gala 2018" was organized by WIE AG IEEE CUST SB and was sponsored by "Al-Funoon". The following competitions were organized: Rubik Cube Competition, Quiz, Debate, Treasure Hunt, Mushaira, and Photography. Ms. Mukhtiar Bano (Chair WIE IEEE Islamabad Section) was the Chief Guest. Mr. Usman Farooqi (Patron Capital Media Club), Mr. Qazi Abdul Moqueet (Counselor IEEE CUST SB), Ms Maria Mashkor (Facilitator WIE AG IEEE CUST SB) and some faculty members were present. The students were praised for their participation and were awarded with certificates and gifts sponsored by Al-Funoon.

IEEE CUST SB organized the Islamabad Section Awards Ceremony & Branch Chairs Meet Up 2018. Two ASSRs Muzamil Mahmood and Fahad Sajid shared their experiences. A two-minute activity named "Connecting the Dots" was held. At the end queries were answered by Hammad Shafqat (Section Chair), and awards and certificates were distributed.



Workshop on Introduction to Matlab & Visio Spark 2018 Qualifiers

Raamish Khan, Vice Chairperson, IEEE RAS CIIT WAH, Islamabad Section

IEEE RAS CIIT Wah Chapter organized workshop on “INTRODUCTION TO MATLAB” in which trainer Dr. Muhammad Naeem provided the basic training about MATLAB. He briefed the students about its utilities in Digital Signal as well as Digital Image Processing. In this workshop, students were informed about how to use MATLAB; its syntax as well as the different functionalities which can be performed on signals as well as on



images to obtain desired output.

Students showed active participation during the workshop. At the end of the workshop, certificates were distributed among the participants.

The student chapter also organized Qualifier Round Competitions for Visio Spark 2018 on 13th and 15th November 2018. The competitions were Speed Wiring Competition and Microwiz Competition. Nearly 20 teams participated and the two top ranked teams were selected for the National Level event Visio Spark 2018.



Visio Spark 2018 (CS Modules) & SSTP Workshops

Muhammad Ammar, Chairperson, IEEE CS CIIT Wah Chapter, Islamabad Section

IEEE CS CIIT Wah Chapter in collaboration with CS Dept. COMSATS University Islamabad, Wah Campus organized the national event Visio Spark 2018 on 17th November 2018. In this event, the CS Dept. handed over the responsibility to IEEE CS CIIT Wah Chapter to organize 10 competitions. The competitions which were organized by IEEE CIIT Wah Chapter were Poster & Logo Designing, Mobile App Development, Code Debug, Speed Programming, Web Development, Software Project Competition, IT Mushaira, Quiz Competition and E-Gaming Competition. More



than 800 students representing different universities participated in these competitions. At the end of the event, souvenirs were distributed among position holder teams.

The student chapter also organized workshops on “Introduction to Power point” and “Wordpress Development” for the first semester students on 9th & 10th October 2018, under the Skilled Students Trains Students Program (SSTP). The trainers were Mr. Muhammad Ammar, Mr. Ahsan Razzaq Raja and Mr. Syed Ghazanfer Ali. More than 50 students participated in these training sessions.



IEEE FJWU Fusion Fiesta'18

Iqra Safdar, Chairperson, IEEE FJWU SB, Islamabad Section

The first mega event “IEEE FJ Fusion Fiesta” by IEEE Fatima Jinnah Women University SB was held on 10th May 2018. The event was filled with fun and learning activities. This event had five segments: Code and win, non-technical competitions, project exhibition, technical workshops and seminars with Q/A session. More than 250 participants



from around 20 institutes and universities attended this event. Overall it was a successful event and has contributed in creating interaction among all the IEEE student branches under Islamabad section.

FLL Qualifiers 2019

Abdul HananMinhas, Treasurer,

COMSATS Institute of Information Tech Islamabad, Islamabad Section

IEEE COMSATS Islamabad organized the 8th First LEGO League Qualifiers at COMSATS Islamabad on 22nd – 23rd January 2019. In this 'INTO ORBIT season', the teams chose and solved a real-world problem of space crafts by building and programming an autonomous robot using LEGO MINDSTORMS technology. IEEE COMSATS Islamabad in collaboration with STARfall pitched in and provided a set up. 21 teams from Islamabad and Rawalpindi participated in the event and 2 teams were selected for the finals. The winner of the qualifier will compete with teams around the world in FLL International Championship.



Insights of Bioinformatics

Saeed Rehmanm,Member

COMSATS Islamabad, Islamabad Section

A session was arranged by IEEE CUI Biosciences Department on 29th October 2018 on bioinformatics. A total of 70 students partook in this informative session. The guest speakers were Dr. QaiserFatimi (Bioinformatics Faculty) and Dr. Ahmed (CS Faculty). There was also a skype session with graduated Bioinformatics student CUI studying abroad. Overall the session proved to be enlightening.



Introduction to IEEE EMBS Mentor Program

Arisha Wasim ,Member, COMSATS Islamabad, Islamabad Section

On 9th November 2018, Engineering in Medicine and Biology Society (EMBS), conducted a very enlightening webinar on the topic “Introduction to IEEE EMBS Mentor Program”. The speaker and conductor was Mr. Saeed Ur Rehman, the Chairperson for IEEE EMBS CUI. The webinar fixated on firstly giving a momentary starter on the



overview of the mentorship program. The second part of the webinar followed with the practical implementation of the program which shed light on the tutorial showing how to profit from the program and how to benefit from the mentor. The speaker explained how to follow the due process to get in contact with the mentor and how to retrieve important guidelines when working with projects. During the query session, the speaker further clarified any impediments from the participants.

Belgium Focus Day

Ayesha KashafNoor,Member, IEEE Computer Society COMSATS University Islamabad, Islamabad Section

Belgium Focus Day was organized on 6th December 2018 by IEEE Computer Society, COMSATS University, Islamabad Student Branch in collaboration with the International Office. Dr. Bruno Vandecasteele, the First Secretary of Belgium Embassy, was the spokesperson of the event. In almost 2 to 3 hours, he covered all the information regarding opportunities and scholarships related to studying in Belgium. The event concluded with a cake cutting ceremony which marked the friendship between Pakistan and Belgium.



Unity 3D Game Development Workshop

Omer Nadeem Awan,Member, IEEE Computer Society COMSATS University Islamabad, Islamabad Section

The Unity 3D Game Development workshop was held on 9th November 2018 at COMSATS University, Islamabad. With this workshop, IEEE Computer Society, COMSATS University Islamabad Student Branch aimed to familiarize attendees with Unity 3D, the pinnacle of game development platforms in the world today. Mr. Danial Nasir of IEEE CS was the spokesperson of this event. The session was greatly beneficial for the audience and hopefully this will be the start of the journey for the very next Gabe Newell.



Android Development Workshop

Umer Farooq, Member, IEEE Computer Society COMSATS University Islamabad Chapter, Islamabad Section

Most consumers today use mobile phones to access the internet. For anyone who wants to be a part of this industry, it can be argued that mobile phone apps are the best way to get their idea to the consumer. Because of this, the IEEE CS Chapter COMSATS University, Islamabad Student Branch, organized a workshop on Android App Development. The workshop was delivered by Mr. Haider Zada and Mr. Mian Faizan Nasir, and students were taught on how apps are developed and what tools are used to develop them. The real objective of the workshop was to encourage and enlighten students about its scope, benefits and giving them a push towards crafting new ideas and implementing them into apps.



Techno Hunt

Kainaat Arshad, Vice Chairperson, IEEE CS COMSATS University Islamabad, Islamabad Section

IEEE Computer Society COMSATS University Islamabad Student Branch organized Techno Hunt on 8th November 2018 from 02:00 pm to 05:00 pm during the student's week. Techno Hunt was basically a scavenger hunt with a programming twist: participants were required to solve a problem based on their coding skills using any of the three languages which encompassed Python, C++ and Java. The event marked a distinction because of its twists, turns and mind-boggling clues. The participants were incorporated in teams and they were launched from the CS department with their first clue. The journey comprised of several levels where in each level the team was handed with the next clue. Almost 10 teams participated in this event and the winning team was awarded with the token of appreciation in the form of cash prize.



ROBIAN'18

Ch Athar Mehmood, Chairperson, RAS, Islamabad Section

IEEE RAS COMSATS University, Islamabad Student Chapter organized a three-day ROBIAN'18 event that comprised of sumo robots, line following robots, workshop on machine learning as well as talks on robotics by Dr. Yasar Ayaz and on developing ethical artificial life by Dr. Wajahat Qazi. The main purpose of this event was to instill a sense of competition in the students as well as to introduce them to the field of robotics and artificial intelligence.





SPECIAL ARTICLES

6. SPECIAL ARTICLES

Section Incentive Scheme

Akinori Nishihara, IEEE Region 10 Director

IEEE Region 10 formerly provided direct support to Sections, Subsections, Chapters, Affinity Groups, and Student Branches within the Region for their events in accordance with their requests for aid. However, a number of these entities failed to submit follow-up reports after the respective events.

So, last year Region 10 introduced a new Section Incentive Scheme in which monies were disbursed only at year's end, based on an evaluation of the report of any given Section. Each Section is, therefore, encouraged to communicate actively with its own Organizational Units (OUs: Subsections, Chapters; LM, WIE, and YP Affinity Groups; and Student Branches). The new scheme should improve our infrastructure and assist each OU based on merit in the overall aim of better serving all members.

Sections are thereby encouraged to submit year-end reports including:

- administrative, professional, and social activities of your Section and OUs with details and proof,
- the details of each event should include dates, number of attendees, and a short description.

Note: the report should not comprise more than five (5) pages.

A request to submit reports will be sent out in early October. You are also advised to post activity reports of the events directly on your Section website in the interests of clarity and publicity. IEEE vTools Events should also be fully utilized. The R10 Operations Committee will then check all reports and provide scores, based on which a Section will receive its earned incentive payment.

Disbursement will be effected at year-end. Please be sure to distribute the amounts of the received incentive to each active OU that contributed to your Section's activities for the prior twelve months through October. We are convinced that your Section and its respective OUs will benefit by the incentive scheme and become more vibrant in order to afford maximum value to its members.

Conference Leadership Program

Deepak Mathur, IEEE Region 10 Director-Elect

Region 10 organizes more than 700 conferences every year and 60% of conferences are technically co-sponsored conferences. There is a need to have more trained volunteers in sections who could guide conference organizers to run conferences as per IEEE Standard and follow the process to organize quality conferences. With this objective, Region 10 is planning to have a 'Conference Leadership Program' to train volunteers.

Objectives:

- To improve conference quality for conferences organized in Region 10.
- To train volunteers who are involved with conference organization in sections so that they are able to guide conferences in their respective sections and oversee the quality as per IEEE standards.

With this program, Region 10 will train volunteers on 'Conferences' and spread the awareness about the concern of IEEE in organizing quality conferences. The trained volunteers will further be guiding conference organizers to meet IEEE standards on conferences, in their respective sections.

The first program is being planned in Goa, India on 17th – 18th August 2019. On the success of first 'Conference Leadership Program', the same may be replicated in other places to train more volunteers on 'Conference' as a long term strategy with an objective to improve conferences quality in Region 10.

The delegates to the program shall be on invitation. Sections shall be able to nominate 1 delegate (maximum of 2) who would be responsible for overseeing the conferences and subsequently guiding the organizers in their respective sections. Interested volunteers may contact their sections for participation.

Topics to be covered (tentative):

- IEEE Conference History and Context Setting,
- Why Run a Conference?
- Benefits and Value of Conference Organizing,
- Measurement and Success Criteria for Events,
- Getting Started: Creating a Plan of Action,
- Sponsorship: Definitions, Roles & Accountabilities (Including MoUs and MGA Sponsorship Approval Process),
- Organizing Committee: Roles and Formation,
- Technical Program, Peer Review and Conference Quality,
- Conference Publications Start to Finish (IEEE Conference Publications Program, IEEEExplore, Plagiarism Checking, eCopyright, etc.),
- Financial Management of Your Conference: What You Need to Know,
- Event Planning / Running the Event,
- Closing Your Conference,
- Best Practice Discussions / Case Studies,
- IEEE Meetings, Conferences & Events Overview.

New Initiatives Committee

Lance Fung ,Chair, New Initiatives Committee 2019-2020)

On 3rd March 2019, a presentation on funding opportunities from the New Initiatives Committee (NIC) was given by Emeritus Professor Lance C.C. Fung, Chair of NIC, at the IEEE Region 10 Annual meeting. The program supports new initiatives, service or products that provide significant benefit to IEEE members, technical community and the public. It is also expected that the initiatives are of strategic importance to IEEE. NIC is charged to identify, recommend and monitor NI projects and to provide recommendations to the IEEE Board of Directors.

The two funding tools are:

- a) Seed grants which are small scale proposals of up to USD40,000 and are generally one year in duration, and
- b) New initiatives which are multi-years with budgets over USD40,000 and up to millions have been granted in the past.

Between 2003 and 2018, 128 projects (40 Seed Grants and 83 New Initiatives) have been granted with a total budget of over USD40 millions. In 2019, a NIC USD\$1M Challenge will be launched with the following priority areas:

- Broadening membership through engagement
- Education of underserved communities
- New style events

Multi-Organizational Units (OU) submissions are encouraged and preliminary proposals should describe priority area addressed, goals, outcomes, and quantified impact of the project.

Enquires should be sent to: nicquestions@ieee.org and additional information on NIC are available at: <https://www.ieee.org/about/corporate/initiatives/initiatives-committee.html>



New Industry Relation Committee Initiative and Special Industry Track

Chris Lee, IEEE Region 10 Industry Relations Chair

In the 21st century, McKinsey has forecasted on changes brought forth by **ARTIFICIAL INTELLIGENCE (AI)** to be 10 times faster and 300 times larger in scale as compared to former Industrial Revolution! In many countries, big corporate style on-the-job-training is reducing and the overall ecosystem with more startups and self-employment places more requirements upon self-learning and metacognitive skills. The IEEE community should inevitably witness more startups, entrepreneurs, mobility of Young Professionals (YP), self-employment, leadership and participation by Women in Engineering (WIE) and life members, etc. as being new paradigm shifts in workplace modality.

To cross pollinate between industry and academia, IEEE Region 10's Industry Relation Committee (IRC) introduced new initiatives in organizing **"Industry Forums (IF)"**, which differs from traditional forum with academia initiating presentations, characterizes flipping of roles in which **industry speakers address pain spots they encounter, subsequently with academia brainstorming for solutions together for innovation**. This shall provide students with real world thesis topics and/or possible **internship** opportunities in easing their career paths towards industry. Academia shall work on real world problems with research outcome required by the industry, which includes YP and WIE, should in turn have access to advanced technologies and talents throughout this professional networking platform so provided by IRC.

Special Industry Track (SIT), a new initiative innovated and introduced by Prof. Takako Hashimoto, Dr. Suresh Nair, Prof. S. M. Sameer, and Harish Mysore will be organized by IRC/PAC together with Students, YP, WIE (SYW), and the industry in R10's flagship conference TENCON at Kerala, India this year. At the SIT, booths will be sponsored by industry where after the industry forum, SYW and industry with mutual interests could further be matched to substantiate collaborative engagement in thesis research and/or internship. Furthermore, industry leaders, investors, and VCs should also be matched with SYW and startup teams. The SIT should also invite local industry to sponsor TENCON participants in reaching out to visit their companies.

IRC should further foster **entrepreneurship** via the organization of IF panels where the fundamentals and need-to-know of startups are introduced by industry leaders. Pitching competitions by startup teams from YP, WIE, and students should also be matched up with investors and venture capitalists (VCs) who serve as judges.

In summary, the SIT currently consists of three parallel threads in implementing industry engagement. This includes inviting industry speakers to IFs so as to foster internship and entrepreneurship. These SIT/IF industry speakers or other industry leaders may sponsor corresponding SIT/IF attendees to visit their companies. Furthermore, we anticipate to invite local human resource management companies to also engage and sponsor IEEE YP/WIE activities such as in our TENCON's SIT.

Industry Forum has already been organized in IEEE AICAS in Hsinchu Taiwan from 18th to 20th March 2019. Another upcoming Industry Forum led by Dr. Toshihiko Sugie T., Senior Technology Strategist, NTT Electronics Corporation, is to be organized in ISCAS 2019 Sapporo, Japan from 26th to 29th May.

We further anticipate organization of IFs and VC matchups in the conferences within Region 10 as stipulated below:

- 1) TENSYP (June 7-9, Kolkata, India) Industry Forum
- 2) ICCE Asia (June 12-14, Bangkok, Thailand) Industry Forum
- 3) TEMS India (Sept. Bangalore, India) Matchup
- 4) TENCON (Oct. 17-20, Kerala, India) Industry Forum & Matchup
- 5) TEMS ISIE (Oct. 24-26, Hangzhou, China) Industry Forum & Matchup
- 6) R10 HTC (Nov. 12-14, Depok, Indonesia) Industry Forum
- 7) VCIP (Dec. 1-4, Sydney, Australia) Industry Forum

IEEE DataPort - A New Resource for All IEEE Members

Ray Liu, VP - Technical Activities Board

Francis Grosz, VP – Member & Geographic Activities Board

IEEE MGA and IEEE TA are proud to introduce IEEE DataPort™, a valuable new resource for all IEEE Members. IEEE DataPort is a valuable, easily accessible data platform that can significantly enhance your research efforts. It is already being used by over 45,000 individuals across the globe. [Click here to go directly to IEEE DataPort!](#)

Using IEEE DataPort™, you can upload and store datasets for free, independently of or in conjunction with paper submission. Further benefits include:

- Backed by IEEE – reputable and trusted
- Can store datasets indefinitely up to 2TB each
- Datasets can be linked to Xplore articles (65 journals/magazines now integrated with IEEE DataPort)
- Users can send email to dataset owners to provide feedback, make inquiries, collaborate, or provide feedback on a specific dataset
- Integrated with ORCID; users can optionally have the IEEE DataPort dataset asset automatically added to their ORCID asset list
- Fully integrated with Amazon Web Services (AWS) to facilitate data analytics
- Provides Digital Object Identifier (DOI) automatically for each dataset
- Citations are formulated and provided in multiple formats for users
- Metadata provided with each dataset and expandable; IEEE SA working to standardize metadata
- Can support and facilitate Data Challenges
- Can store and link related documentation – scripts, visualizations, related documentation
- Fully integrated with Amazon Web Services (AWS) to facilitate data analytics
- Help meet funding agency requirements for data management
- The platform is designed to accept all types of datasets, and it provides both downloading capabilities and access to Amazon Web Services to facilitate data analysis in the cloud. Learn more by visiting <https://ieee-dataport.org>

As an IEEE Region Member, you are currently entitled to a FREE subscription to IEEE DataPort, which provides access to all IEEE DataPort Datasets. Go to IEEE DataPort (<https://ieee-dataport.org>), sign in using your IEEE Account, click SUBSCRIBE, and use promo code DATAPORT1 at checkout to get your free subscription. Or since all IEEE Society members currently receive an automatic free subscription, please consider joining an IEEE Society. If you have further questions, feel free to reach out to the IEEE DataPort team by visiting <https://ieee-dataport.org/contact>.

IEEE Technical Activities and IEEE MGA are working together to ensure all of our members are able to leverage the capabilities of IEEE DataPort. We hope you will agree that IEEE DataPort can be a valuable platform to enhance your research efforts, because it could:

- Establish personal impact and support research reproducibility by making your research data available with your research results
- Enhance your individual research efforts through use of available datasets
- Participate in an interactive data community
- Store data indefinitely for later use

South East Asia Strategy

Lawrence Wong, Advisory Committee, IEEE Region 10

Leo Hwa Chiang, Director, IEEE Singapore Operations

**The views and opinions expressed in this article are those of the authors and do not necessarily reflect the official policy or position of IEEE.*

South East Asia is a region comprising 10 countries: Brunei, Cambodia, Indonesia, Laos, Myanmar, Malaysia, Philippines, Singapore, Thailand and Vietnam. If South East Asia were a single country, it would be the seventh-largest economy in the world. It is also the fourth-largest exporting region in the world, trailing only the European Union, North America and China/Hong Kong.

However, it is not homogeneous in terms of language, culture and religion. The economic development is also vastly different. In order to develop the South East Asia strategy, we need to take into consideration the differences among the countries. One size does not fit all. With this in mind, the strategy will take an overall view to provide a framework with which each country can modify to suit its own needs.



Broadly, the strategic goals are of three-folds:

- To expand IEEE's visibility and its communities while minimising risks for IEEE.
- To engage local members, industry, government, and academia to increase participation and volunteering
- To develop South East Asia as one of the largest market of IEEE through our programmes, products and services to achieve sustainable growth

In the short to mid-term, volunteer leaders can consider the following:

- Expand and vitalize communities in South East Asia
 - Community building and expansion
 - Invigorate communities
 - Improve user experience
- Enhance technical activities
 - More nimble, more coverage
 - Conference education program
 - Increase quality
 - Marketing, promotion, communications and conference support
 - Identify and work with local partners
- Engage industry through holistic approach that includes standards and industry solutions
 - Identify 10 large private-owned companies and 10 start-ups to explore and develop engagement
 - Top-down and bottom-up strategies to engage companies on standards and emerging technologies
- Identify educational activities relevant to South East Asia
 - Identify opportunities beyond accreditation
- Increase student, Young Professionals and WIE activities
 - Expand student branches and affinity groups through incentivizing and encouraging local activities and programs
 - Align with YP and WIE business plans
- Localize products and services
 - Communicate and understand local needs
 - Develop new products and services that are relevant to local needs

IoT Asia at Singapore EXPO

Ewell Tan, IEEE Asia-Pacific Limited

The rapid changes and advancement of Internet of Things (IoT) is going to change our lives and could be the next industrial revolution that reshape the connected economy. With this technology trends, the 6th edition of IoT Asia, an award winning event was held on 27th & 28th March 2019 in Singapore EXPO, with topics focused on smart cities, industrial IoT, artificial intelligence, blockchain, data analytics and enablers.

IEEE Asia-Pacific Ltd. is proud to be one of the knowledge partners for the IoT Asia this year. This event brought the technology solution providers, technology heads, design/solution architects, engineers, academic institutions, investors and starts-ups together for enriching learning and sharing experience. Singapore Minister for Foreign Affairs and Minister-in-Charge of the Smart Nation Initiative, Dr. Vivian Balakrishnan grace the event at the IoT Asia opening ceremony. In his speech, Dr. Vivian Balakrishnan underscores the importance of revising legislation in the light of developing big technology trends.

In additional, Prof. Takako Hashimoto, the Vice President of Chiba University of Commerce, Japan and a dedicated volunteer from IEEE Region 10, was invited to give a talk on sustainable development goals towards distributed energy society through RE100 university initiative at one of the workshops of IoT Asia. As part of the Region 10 Industry Forum initiative, R10 Industry Relations Committee Chair, Dr. Chris Gwo Giun Lee was also joining us in this event.

IEEE Asia-Pacific also invited Prof. Simon Chestermon and Adjunct Prof. Yu Chien Siang from National University of Singapore (NUS), and Mr. Jiten Hanwat from IEEE Singapore Blockchain Initiative group as speakers of the event. This event attracted over 6,000 delegates and over 180 exhibitors to attend. At the IEEE exhibit booth, staff from IEEE Asia-Pacific helped to promote IEEE membership, products and services to the trade visitors and conference delegates.



From left to right: Director of Singapore Office, Leo Hwa Chiang; IEEE R10 Secretary, Prof. Takako Hashimoto; Project Manager, Ewell Tan; Office Administrator, Min Bia Gunawan at IoT Asia.



Mr. Jiten Hanwat from IEEE Singapore Blockchain community group gave a talk at IoT Asia



IEEE R10 Industry Relations Committee Chair, Dr. Chris Gwo Giun Lee attended the event as part of R10 Industry Forum



AWARDS AND FUNDING

7. AWARDS AND FUNDING

IEEE Awards



Nominate a colleague for IEEE Medals, Recognitions, and Technical Field Awards

The IEEE Awards Program is more than 100 years old, a peer-recognized program of achievement that has recognized leaders and visionaries who have paved the road of discovery in ways no one would ever imagine. IEEE Awards inspire achievement and set a standard of excellence and a motive to aspire to shape the future for the benefit of humanity, one innovation at a time.

Annual Nomination Deadlines:

15 June

Nominations currently open

IEEE Medals, Honorary Membership, Young Professional Award, Corporate Recognitions, and Service Awards

15 January

Nominations will open 1 July

IEEE Technical Field Awards

IEEE Eric Herz Outstanding Staff Member Award

MGA Outstanding Section Awards



Each year, the [MGA Outstanding Section Awards](#) are presented to one large, one medium, and one small Section (across all Regions), to recognize their excellent work and successful efforts in fulfilling the educational and scientific goals of IEEE for the benefit of the public. The recipient Sections are acknowledged for maintaining, enhancing, and supporting the Student Branches, Technical Chapters, and Affinity Groups within their geographic boundaries.

Three awards are presented, as follows:

- Large Section = 1,501 or more members (including Students) as of 31 December of the prior year;
- Medium Section = 501-1,500 members (including Students) as of 31 December of the prior year;
- Small Section = 500 or fewer members (including Students) as of 31 December of the prior year

To nominate your Section for the MGA Outstanding Large, Medium, or Small Section Award, please go to:

<https://ieee.secure-platform.com/a/solicitations/home/205>.

Follow the links provided to review the selection criteria.

The deadline for submissions is 15 May 2019. Recipients will be announced in July 2019.



***Celebrating Brilliant Minds
and a Bright Future!***

.....

IEEE Educational Activities Board (EAB) Awards recognize and honor major contributions to engineering and technical education. Awards are given for meritorious activities in accreditation, continuing education, educational innovation, pre-university education, service to the IEEE EAB, employee professional development, informal education systems, and related achievements that advance the practice of engineering and of engineering education.

***The 2019 Awards nominations are now being
accepted through 6 May 2019.***

***You know deserving individuals,
so who will you nominate?***

For a complete details and nominations visit:

<https://bit.ly/eabawards2019>

IEEE Educational Activities



IEEE Region 10 Awards

The following 2019 R10 awards are now open for nomination, please refer to the link for more details about the nomination's rules & guidelines.

Please encourage nomination from your local units and submit nomination to the respective R10 Committee Chair by **27 May 2019**.

1. R10 Outstanding Volunteer Award -
<http://www.ieeer10.org/awards-recognition-committee/>
2. R10 Humanitarian Technology Activities Outstanding Volunteer Award -
<http://www.ieeer10.org/awards-recognition-committee/>
3. R10 Humanitarian Technology Activities Outstanding Section Award -
<http://www.ieeer10.org/awards-recognition-committee/>
4. R10 WIE Outstanding Professional Volunteer Award -
<http://wie.ieeer10.org/awards/>
5. R10 WIE Outstanding Student Volunteer Award -
<http://wie.ieeer10.org/awards/>
6. R10 WIE Outstanding Section Affinity Group Award -
<http://wie.ieeer10.org/awards/>
7. R10 WIE Outstanding Student Branch Affinity Group Award-
<http://wie.ieeer10.org/awards/>
8. R10 Young Professionals Outstanding Volunteer Award (Academician)-
<http://yp.ieeer10.org/awards/>
9. R10 Young Professionals Outstanding Volunteer Award (Industry Practitioner) -
<http://yp.ieeer10.org/awards/>
10. R10 Young Professionals Outstanding Section Affinity Group Award -
<http://yp.ieeer10.org/awards/>
11. R10 SAC Outstanding Volunteer Award -
<https://sac.ieeer10.org/ieee-r10-sac-volunteer-award/>
12. R10 SAC Outstanding Student Volunteer Award -
<https://sac.ieeer10.org/ieee-r10-sac-student-volunteer-award/>
13. R10 SAC Outstanding Student Branch Award -
<https://sac.ieeer10.org/ieee-r10-student-branch-award/>
14. R10 Educational Activities Outstanding Group Award - <http://www.ieeer10.org/awards-recognition-committee/>
15. R10 Educational Activities Outstanding Volunteer Award -
<http://www.ieeer10.org/awards-recognition-committee/>

We look forward to receiving nomination from your Section.



IEEE HAC Projects Call For Proposals



Humanitarian Activities Committee

IEEE HAC Projects – 2019 Call for Proposals

The IEEE Humanitarian Activities Committee (HAC) is tasked with supporting the IEEE Board-endorsed vision of IEEE volunteers around the world carrying out and/or supporting impactful Humanitarian Activities at the local level – i.e. “feet on the ground.”

IEEE HAC is currently inviting proposals for *Sustainable Development and Humanitarian Technology-related projects* aligned with this vision. The committee will review proposals **with budgets between US\$20,000 and US\$60,000**.

Proposals that address one or more **UN Sustainable Development Goals (SDGs)** in a major, impactful way will be prioritized for funding - [Link to UN Sustainable Development Goals](#). Proposals should take a holistic, community-based approach taking account of relevant environmental, cultural, socio-economic & infrastructural issues and policy priorities.

Proposals must demonstrate consultation with and a clear understanding of the needs of target communities and demonstrate a needs-driven approach to strengthening local capacity through technology deployment.

Proposals requesting a larger budget contribution (US\$40,000 – US\$60,000) will be considered on a case by case basis, based on progress achieved with previous related activities.

Including a section on the projected [Social Return on Investment \(SROI\)](#) analysis provides deeper insights into the project planning and the proposed execution and hence could increase the chances of the proposal being successful, particularly for larger projects. Please contact hac-office@ieee.org for more information on how to perform SROI, in case needed.

Term of funding: Up to 12 months following the award date.

Any proposal which requests (i) funding of less than \$20,000, (ii) is incomplete, (iii) does not have active local community involvement and active “Local” IEEE Volunteer involvement or (iv) for which a completed IEEE HAC Projects Budget Application Form is not submitted will *not* be reviewed. All proposals must disclose if an identical or similar proposal is currently under evaluation for funding elsewhere.

NEW: All projects that involve children must follow [IEEE Guidelines for Working with Children](#). Any HAC Project funding will be contingent on policy compliance.

Deadlines:

- ~~Call 1: 21 January 2019~~
- Call 2: April 1, 2019
- Call 3: July 15, 2019
- Call 4: September 9, 2019 **ONLY IF FUNDS REMAIN**

For more information, visit <https://www.ieee.org/about/corporate/humanitarian-activities-committee.html>

IEEE HAC Events Call For Proposals



IEEE HAC Events – 2019 Call for Proposals

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.

IEEE HAC is currently soliciting proposals to support *Sustainable Development and Humanitarian Technology-oriented events (including conferences, conference tracks and smaller scale workshops)* aligned with this vision. IEEE HAC seeks to support relevant events around the world.

Events that address one or more **UN Sustainable Development Goals (SDGs)** in an impactful way will be prioritized for funding - <http://www.un.org/sustainabledevelopment/sustainable-development-goals/>.

Please note: IEEE HAC will only support conferences/events/activities that can clearly articulate a firm alignment with the mission of IEEE HAC.

Deadlines:

- ~~Submission deadline for Call 1 is 24 January 2019~~
- Submission deadline for **Call 2** is **25 March 2019**
- Submission deadline for **Call 3** is **20 May 2019**
- Submission deadline for **Call 4** is **19 August 2019**

Download the application form at: <http://bit.ly/2ESHaEW>

Please submit your completed form to hac-events@ieee.org

For more information, visit [HTTPS://WWW.IEEE.ORG/ABOUT/CORPORATE/HUMANITARIAN-ACTIVITIES-COMMITTEE.HTML](https://www.ieee.org/about/corporate/humanitarian-activities-committee.html)

IEEE HAC Conference Participation Program



Humanitarian Activities Committee

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

Fill out the Google form at: <https://goo.gl/forms/dDWnvXRU4JaxTXP32>

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

For more information, visit [HTTPS://WWW.IEEE.ORG/ABOUT/CORPORATE/HUMANITARIAN-ACTIVITIES-COMMITTEE.HTML](https://www.ieee.org/about/corporate/humanitarian-activities-committee.html)

Call For Proposal To Organize R10 POCO

IEEE POCO

Panel of Conference Organizers

Greetings from IEEE R10 Conference and Technical Seminar (CTS) Committee.

We would like to invite Sections, Sub-Sections and Councils to submit proposal to organize R10 POCO (Panel of Conference Organizers) workshop for 2019.

R10 CTS Committee will provide financial support of up to 50% subjected to the maximum of US\$ 1000. The R10 POCO workshop must be completed by 15 November 2019.

The main purpose of organizing the R10 POCO workshop is to provide the best practices, experiences and rules/procedures to the volunteers, in enhancing the quality, and successful management and completion of conferences.

Kindly send the completed proposal to ongmichael@i2r.a-star.edu.sg. The submission due date is **30 April 2019**.

We look forward to your support. Feel free to contact me should you have any queries.

Thanks,
Michael Ong
2019 R10 Conference and Technical Seminar Committee Chair

Registrations Now Open: R10 SAC Contests 2019

Saaveethya Sivakumar
Student Representative
IEEE Region 10



**IEEE R10 SAC
CONTESTS**

region **IEEE 10** | **IEEE**

IEEE R10 Postgraduate Research Paper Contest

Cash Prizes & E-Certificates
First place: USD 300
Second place: USD 200
Third place: USD 100
WIE Best Paper Award: USD 200
Submission Deadline: 27th May 2019

IEEE R10 Undergraduate Project Video Contest

Cash Prizes & E-Certificates
First place: USD 300
Second place: USD 200
Third place: USD 100
WIE Prize: USD 200
Submission Deadline: 27th May 2019

IEEE R10 Student Branch Website Contest

Cash Prizes & E-Certificates
First place: USD 300
Second place: USD 200
Third place: USD 100
Submission Deadline: 22nd April 2019

For Enquiries and Information Contact:  r10sac-contest@ieee.org

IEEE R10 POSTGRADUATE RESEARCH PAPER CONTEST

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

Submission link: <https://sac.ieeeer10.org/ieee-r10-postgraduate-research-paper-contest/>

Submissions Deadline: **27th May 2019**

IEEE R10 UNDERGRADUATE PROJECT VIDEO CONTEST

The R10 Undergraduate Project Video Contest aims to improve the engineering students' communication and presentation skills to a wider online viewing community, which may include technical and non-technical audience. The contest will facilitate the recognition of these skills and encourage other student members to develop similar skills.

Submission link: <https://sac.ieeeer10.org/ieee-r10-undergraduate-project-video-contest/>

Submissions Deadline: **27th May 2019**

IEEE R10 STUDENT BRANCH WEBSITE CONTEST

The IEEE R10 Student Branch Website Contest is designed to encourage Student Branches to fully utilize the power of Internet for keeping members informed about the local activities and opportunities. A well maintained website with ease of navigation can be a great source of timely information and an appealing showcase for the local IEEE activities. This contest facilitates the recognition of creative and informative websites.

Submission link: <https://sac.ieeeer10.org/ieee-r10-student-branch-website-contest/>

Submissions Deadline: **22nd April 2019**

For enquiries please contact us at: r10sac-contest@ieee.org



CALL FOR PAPERS

8. CALL FOR PAPERS

IEEE Region 10

IEEE Kerala Section



Call for Special Session Proposals and Paper Submissions

TENCON is a premier international technical conference of IEEE Region 10. The Theme for TENCON 2019 is **Technology, Knowledge, and Society** and it will be held on **17th to 20th October 2019 at Hotel Grand Hyatt, Bolgatty, Kochi, India.**

Regular Session Tracks

- Data Science & Engineering
- Computing Technologies
- Computational Intelligence
- Communication & Networking
- Signal & Image Processing
- RF Circuits, Systems & Antennas
- Devices, Circuits, Materials & Processing
- Power, Energy & Power Electronics
- Robotics, Control, Instrumentation & Automation
- Biomedical Engineering & Healthcare Technologies

Special Sessions, Tutorials and Workshops

The regular sessions in the following tracks will be combined with tutorials, special sessions and workshops. Tutorials will be aiming at the dissemination of mature knowledge and technology advances in the field and Special sessions & workshops will be offering the opportunity for a more focused exchange of ideas and presentation of ongoing research.

Prospective organizers are invited to submit proposals for Workshops and Special Sessions and prospective authors are invited to submit full paper, via the conference website.

For more details bit.ly/tencon2019CFP

Papers submission

Submission Deadline: **April 20, 2019**

Paper Notification Date: **July 20, 2019**

Camera-Ready: **August 30, 2019**

Special sessions & Workshops proposals

Proposal Deadline: **March 31, 2019**

Notification: **April 10, 2019**



www.tencon2019.org



**CALL
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7th IEEE Region 10 (Asia Pacific) Humanitarian Technology Conference

<http://r10htc2019.org>

12-14 Nov. 2019, Universitas Indonesia, Depok, Indonesia

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Contact Information

r10htc2019@gmail.com

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

Tracks:

- Conference Track
- Project Competition Track
- Tutorial and Short Courses
- Region 10 Congress Track

**Accepted 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 finalist 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:

Registration type	International (USD)	Local (IDR)
REGULAR MEMBER	300	3,000,000
REGULAR NON-MEMBER	350	4,000,000
STUDENT MEMBER	200	2,000,000
STUDENT NON-MEMBER	250	2,500,000
AUDIENCE	150	1,500,000

Additional	International (USD)	Local (IDR)
ADDITIONAL PAPER	150	1,950,000



Organized By

IEEE Bangladesh Section **IEEE region 10**

IEEE TENSYP 2020

Technology for Impactful Sustainable Development

Dhaka, Bangladesh 5th to 7th June 2020

Contact: Prof. Dr. Celia Shahnaz, General Chair, TENSYP 2020, dr.celia.shahnaz@ieee.org

DIGITAL ECOSYSTEM FOR HUMANITY

IEEE R10 Humanitarian Technology Conference 2020

1-3 December 2020 | Kuching, Malaysia

Organized by

IEEE SARAWAK SUBSECTION **IEEE** MALAYSIA SECTION **SARAWAK** UNIVERSITY

For more info, please visit <http://sarawak.ieeemy.org> or contact
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IEEE R10 TODAY

MARCH/APRIL ISSUE 2019



