



IEEE
HYDERABAD SECTION

SYNAPSE
The Newsletter of IEEE Hyderabad Section

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Issue II

Editor in Chief: Mohammed Arifuddin Sohel

Editor: Mousmi Ajay Chaurasia

IEEE Hyderabad Section Mission and Vision

Vision

To be an essential resource for the professional development in specific fields of interest of IEEE for the benefit of mankind.

Mission

To provide a platform for knowledge sharing, networking, and career development to the local technical community.

Chairman's Message



**N. Venkatesh, Chair,
IEEE Hyderabad Section**

I am happy to share with you the news that our Section received the IEEE 2019 Outstanding Membership Retention Performance award. Thanks to all of you for continuing to be with IEEE, and I hope you will all be associated with IEEE in the years to come as well.

One of our active volunteers, Mohammed Arifuddin Sohel, who is also serving as Branch Counselor of IEEE MJCET SB won the 2019 IEEE Outstanding Branch Counselor and Advisor award. The award recognizes the dedicated efforts of Student Branch Counselors and Branch Chapter Advisors around the world. Winners "exemplify the Institute's commitment to the educational, personal, professional, and technical development of students in IEEE related fields of interest." I heartily congratulate Arif on his achievement.

There was an interesting meeting in late June in Bangalore with Jose Moura, IEEE President, and Stephen Welby, IEEE Executive Director and COO, that I attended. IEEE India Council presented a remarkable fact before the President – membership growth in India was 12% in 2018, and if this continued, by 2026, the golden jubilee year of India Council, the membership in India would equal the membership of the entire R10 as of today. So there is a case for making India a region on its own! Although this is a little far-fetched right now, IEEE is seriously looking at a regional realignment. R10 has 30% of IEEE membership, but only offers one Director to the board. World engineering workforce demographics are changing and soon it may be time for us to stand up and be counted. Another point of discussion with IEEE leadership has been the funding being made available for regional activities. We in India have been asking for a greater share of members' dues to be ploughed back to the Sections. We shall see what happens here, but meanwhile, our Section's volunteers, including those in the Student Branches, have been effectively utilizing the IEEE Brand to raise funding and organize a multitude of events. I hope you have been able to participate in at least a few of them this year.

The 2019 Section Student Congress saw outstanding attendance this year – close to 1,000 students taking part! It showed how vibrant our Section is and how eager our members are to be involved. I congratulate all those who contributed to the conduct of this grand event.

In the middle of August, I attended the Region 10 Conference Leadership Programme, along with Chairs and representatives of many of our region's Sections. Organized by Deepak Mathur the R10 Director Elect, our own Vice Chair Amit Kumar, and others, the programme was about organizing and conducting high quality conferences. Leaders from IEEE's Meetings, Conferences and Events (MCE) flew in to provide a deep and comprehensive view of IEEE's conferences policies, practices and recommendations.

Heading into the festive season, there are many prominent IEEE activities and events coming up. Please do watch out for our eNotices and I look forward to all of us having a fruitful and satisfying association with IEEE.

I'll always be glad to hear from you at chairman@ieeehyd.org.

Best wishes,
Venkatesh

Achievements

1. **IEEE Hyderabad Section** received 2019 Outstanding Section Membership Retention Award.



2019 Outstanding Section Membership
Retention Performance
Hyderabad Section

2. **Mohammed Arifuddin Sohel** received 2019 IEEE Outstanding Branch Counselor and Advisor Award for mentoring IEEE MJCET Student Branch.
3. **Mousmi Ajay Chaurasia** and **J. Vamsi Krishna** have been selected as Mentors in VoLT 2019.
4. **Ankitha Gudla**, B.E. IV year student, VNR VJiet and **Niharika Vanka**, B.E. VI year student, Vardhaman College of Engineering received Richard E Merwin Scholarship award.
5. **M.V.R.Vittal**, GPREC Kurnool has been elevated as Senior Member of IEEE.
6. **Sandeep M Satav**, RCI, DRDO has been elevated as Senior Member of IEEE.
7. **Naveen Gubba**, JBIET has been elevated as Senior Member of IEEE.
8. Following student branches were awarded during Section Student Congress (SSC 2019) :-
 - ✓ Lead Student Branch --- G. Pulla Reddy Engineering College
 - ✓ Vibrant Student Branch --- GITAM University, Vizag and VNR Vignan Jyothi Institute of Engg. & Tech.
 - ✓ Emerging Student Branch --- Vignan's Foundation for Science & Technology, Guntur and JNTU, Narasaraopet

R10 events at Goa, India

IEEE R10 organised first Conference Leadership Programme (CLP) held at Pheonix Park Inn Resort, Goa on 17-18 August 2019. This event was one of its kind and a very special in Region 10 to educate on Conference best practices. Participants from Australia, Malaysia, Tokyo, and other countries were present to attend the same. Total 48 IEEE members benefitted from this event and requested the organisers to conduct it on annual basis. N. Venkatesh and Mousmi Ajay Chaurasia were nominated from IEEE Hyderabad Section to attend this event.

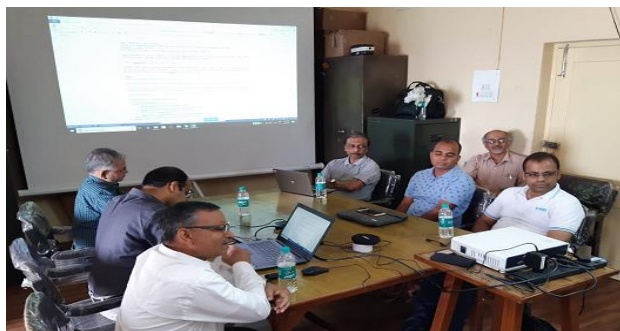


Group photo with participants

IEEE Hyderabad section Activities

SEC-9 at Section Office, Hyderabad

On 8th September 2019, the ninth Section execom meeting was organized in the renovated and refurbished section office of IEEE Hyderabad section, Al-Karim trade centre, Secunderabad. Total 15 execoms members attended the same. This is the first Section meeting conducted at the office after a long gap. It is proposed to conduct all further meetings at the Section office only.



Ongoing Section Meeting

IEEE ICISGT 2019 at Vizag

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

Dr. O.R. Nandagopan, Outstanding Scientist and Director, NSTL (DRDO) inaugurated the conference and stressed the need of such conferences in Visakhapatnam as the city is becoming a hub for high end technical products. Prof. Jana from Indian Institute of Technology, Hyderabad delivered a keynote address on “Multiscale monitoring of Urban Air Quality: An Integral Dimension of Smart Cities Initiative.” After the keynote address, two sessions on “Intelligent Systems” were conducted with nine researchers presenting their work. A Membership Development Desk was arranged to promote IEEE

membership. The Conference Proceedings were released by chief guest and chair of Hyderabad section.



Lamp lighting by the chief guest of the function: Dr. O.R. Nandagopan, Director, NSTL



Dr. O.R. Nandagopan, director, NSTL and Sri N. Venkatesh addressing the gathering



Conference proceeding was released by dignitaries

An invited talk was delivered by Prof. KV.R. Rao and four sessions on “Green Technology” were organised. Prof. P.S.R. Chowdary, Dr. B.V.S.S. Krishna Kumar, Additional Director, NSTL, Prof. Bala Subrahmanyam, Prof. P. Mallikarjuna Rao, AU, Prof. Atul Negi, UoH. Prof N. Sreenivasa Rao and Prof P.V.S. Lakshmi Jagadamba, Sri. N. Venkatesh, Chair IEEE Hyderabad Section, Prof N. Deepika Rani Vice-Chair, IEEE Vizag Bay, Dr. S. Raja, Scientist-G, DRDO and Sri Gopi Kumar Bulusu, CEO, Sankhya Technologies were the chairs for technical sessions. The valedictory function was chaired by Sri K.V. Sriram, Chair, IEEE Vizag Bay Sub-Section and participation certificates were awarded to all the participants. Dr. S. Lakshminarayana, Organizing and Publication Chair proposed the vote of thanks.



Participant receiving certificate during Valendictory function

Section Student Congress 2019

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



Vijayalatha, Chair, Student Activities Committee lighting the lamp

This was followed by a keynote address by Dr. Manish Kothari, Vice president, Qualcomm. His address focused on various applications of 5G communications, IOT automation and AI in computing. Sandeep Arora of Verizon emphasized that information security in this era of internet is of paramount importance. He extended his topic to 5G communication and the services offered by Verizon in this area.



Felicitations of chief guest, Navin Mittal by N. Venkatesh

Sri. Charan Lakka Raju of StuMagz recommended many ways in which a student would benefit by proper networking and expressed his views on their digital presence. Mr. Kisshhan PSV from H-BOTSROBOTICS Pvt. Ltd. addressed on “AI & ROBOTICS in the NEW MILLENNIUM” and showed that the time for robotics and artificial intelligence is here. He shed light upon various cases where robotics could be used in India like agriculture, medicine, industrial automation etc. This was followed with a talk by Anil Rachamalla of End Now foundation which focused on “Digital Safety”. The session closed with a panel discussion on “**IEEE SB Operations**”. At the same time, student from various student branches displayed projects in the exhibit hall and gave a brief description about the activities done by their Student Branches in Project Exhibits. At the end, vote of thanks was proposed by Dr. Y. Vijayalatha, Chair, SAC, IEEE Hyderabad Section.



Students volunteers with Hyderabad section executive committee members

IEEE Computational Intelligence Society / GeoRemote Sensing Societies

Expert talk on Blockchain Technology at NRIIT, Guntur

IEEE CIS/GRSS Jt. Chapter, Hyderabad Section in association with Guntur sub-section organised an expert talk on “BlockChain Technology: The Future of Cyber Security from Cyber Attacks” on 31 August 2019 at NRIIT Guntur. Dr. E. Suresh Babu from NIT Warangal was the speaker of the event. He focused on the blockchain technologies distinct capabilities in mitigating cybersecurity risk to an information technology (“IT”) system. The relationship between cybersecurity and blockchain technologies are deployed in all industries, because blockchains may fit within broader cybersecurity objectives. Blockchain provides enhanced security features, preventing fraud and data theft, increases the resiliency of the overall network, improves the overall robustness and integrity, enhanced transparency, making it much more difficult to corrupt blockchains through malware or manipulative actions, cybersecurity protections on cloud platform’s for access controls. Total 89 non-IEEE members attended the session.



Dignitaries on dais



Group photo with participants @ Hotel Plaza

IEEE Computer Society (CS) Chapter Activities

Digital Reality Workshop at Hotel Plaza, Hyderabad & PSCMR College at Vijayawada

IEEE Computer Society chapter under IEEE Hyderabad Section organized a half-day Workshop on Digital Reality on May 11, 2019 at Plaza Hotel, Begumpet on the eve of National Technology Day. Immersive Experience is one of the emerging Digital Trend powered by Augmented Reality(AR), Virtual Reality (VR) and Mixed Reality (MR) is making a big transformation wave in every industry. There were three invited speakers for the workshop - Nikeelu Gundu from Digital Connect enlightened participants on how Augmented Reality is shaping different industry segments and its influence on the new age interactive marketing. Mr. Ikram Ali Shaik, Technical Architect Producer for AR/VR/MR explained the key ingredients to Developing Apps for Retail Industry. He also shared few industry game changers in AR. Further, an entertaining and influencing session from Sai Satish, CEO, India servers immersed participants to join with avengers characters. Satish has shown on how quickly transforming AR skills can be learnt using right set of tools in place.

Vidyasagar, Chair IEEE CS Chapter, explained the growing importance of AR and VR and Jabbar, Vice Chair, CS Chapter described the significance of IEEE driving the efforts to educate on emerging trends. Bala Peddigari, Rajanikanth, and Ramesh Chandra Gollapudi, from IEEE Hyderabad Section also graced the occasion.

This event was reconducted in association with IEEE Vizag Bay Section in form of a half-day Workshop on Robotics & Digital Reality on 20 July, 2019 in association with PSCMR College at Vijayawada. Over 50 delegates participated in this program.



Group photo with participants @ PSCMR college, Vijayawada

IEEE CAS/EDS Joint Chapter Activities

Circuits and Systems Research Forum

IEEE Hyderabad Section, Joint Chapter of Circuits and Systems & Electron Devices Societies (CAS/EDS) in collaboration with VR Siddhartha College of Engineering, Vijayawada organised Circuits and Systems (CAS) Research forum on 22nd August 2019 at seminar hall, Department of ECE, Velagapudi Ramakrishna Siddhartha Engineering College. This Research forum is the fifth in series of research forums organized by IEEE CAS/EDS Chapter of Hyderabad Section annually. The main aim of this forum is to provide a structured approach to persons aspiring to do research or currently pursuing research on all fundamental aspects of research like choosing a research problem, literature survey, effective techniques in writing conference/journal papers, best practices in Thesis writing and effective presentation skills.



Dignitaries on the dais

Apart from this, the forum has targeted to UG students, PhD students, pre-doctoral students and Masters leading to PhD students and aspiring researchers with an opportunity to explore open ended research problems in the area of Circuits and systems. The research forum was attended by 47 participants of which 19 were IEEE members. Dr. Arif Sohel and Dr. A.G. KrishnaKanth were the key resource personnel for this forum.



On-going session & certificate distribution



Arif Sohel encouraging audience towards research

3-day workshop on "Advanced IoT with Machine Learning" at BVCITS, Amalapuram

IEEE Hyderabad Section, Joint Chapter of Circuits and Systems & Electron Devices Societies (CAS/EDS) and BVCITS, Amalapuram organized 3-day workshop on "Advanced Internet of Things with Machine Learning" on 23-25 August 2019. The workshop was funded under IEEE 2019 circuits and systems society (CASS) outreach programme of IEEE Headquarters. The purpose of the workshop was to bring awareness towards the next big technologies, IoT & Machine Learning and train the faculty towards the latest technological usage. The hands – on training was conducted with IoT hardware platforms like Node MCU & Raspberry Pi along with some machine learning algorithms. Total 31 faculty members participated in this event. The session comprised of Introduction to IoT Programming, Python programming, hardware platforms Raspberry Pi & Node MCU followed by Machine Learning and its implementations. On the last day of the workshop, a small assessment test was conducted and certificates were distributed to the participants. Dr. Arif Sohel, Mr. Badrinath Chitti and Mr. Muneeruddin were resource persons for this hands on workshop.



Group photo with participants

IEEE PES/IAS/PELS-Jt. Chapter activity

Micro-Grids & Battery Energy Storage Systems at GCET, Medchal

IEEE PES/IAS/PELS Chapter, Hyderabad section organised a Professional Development Program in association with Geethanjali College of Engineering and Technology (GCET) Hyderabad on "Micro-Grids & Battery Energy Storage Systems" from 6-11 May 2019 at GCET, Hyderabad. This program was attended by Industry Professionals, Young Professionals / Faculty in Academic Institutions and Research Scholars. Total eight IEEE and 32 non-IEEE members attended the same. In this event, introduction to the micro grid scenario integrated with Battery Energy Storage System (BESS), Power Electronic Convertors, protection, instrumentation and hand-on demo session on interconnection of micro grids were explained. Lastly, a field visit was arranged for the participants to the Factory of M/s NED Energy Limited, in Medchal, Hyderabad.



Group photo with participants

Solar Power Plants & Battery Energy Storage Systems in Utility Grids & Microgrids at KLEF University

IEEE PES/IAS/PELS, Hyderabad section organised a Professional Development Program in association with KLEF, University, Guntur on "Solar Power Plants & Battery Energy Storage Systems in Utility Grids & Microgrids" on 18 July 2019 at KLEF university, Guntur.

Total 42 IEEE and 58 non IEEE members benefitted from the event. This program was designed to focus on creating know-how/ know-why on various aspects of Utility Grids/ Microgrids including issues related to their topology/ interconnection/ grid integration, Battery Energy Storage Systems (BESS)/ Bi-Directional Power Electronic Converter technologies, local generation and power flow control. At the end, an Industry Field visit (afternoon session) was arranged for the participants to the Factory of M/s Efftronics Systems Ltd, in Vijayawada.



Felicitation of PV Rajgopal, Chair, PES/IAS,PELS,Hyderabad section

IEEE MTT-S chapter activities

MTT-S chapter activity for distribution of Antenna kits

IEEE Microwave Theory & Techniques Society has donated RF Antenna trainer kits worth of Two lakhs rupees for the following IEEE MTT-S SB chapters on 27 August 2019.

1. College of Engg -Osmania University, Hyderabad
2. Matrusri Engg. college, Hyderabad
3. Vardhamaan College of Engg., Hyderabad and
4. GPREC Kurnool



Distribution of Antenna kits to various colleges

IEEE MTT-S Student Chapter was inaugurated by Dr. S. K Koul, IIT Delhi on 27 August 2019 at Matrusri Engg college. Total 38 members joined the society and over 250 participants attended the inaugural session.



Inauguration of MTT-S chapter

IEEE Women in Engineering AG activity

WALK the talk at Vardhaman college

IEEE Women in Engineering Affinity Group, Hyderabad Section in association with IEEE SB, Vardhaman College of Engineering organized “Walk The Talk-Vardhaman 2019” with the theme of **Go Confidently and Live the Life You Have Always Imagined** on 26-17 July 2019. The event was attended by 350+ students from various reputed institutes across Telangana. Ms. Deepthi Ravula, CEO WE-HUB, Hyderabad was invited as the chief guest for the event. The aim of this event was to bring members from different student branches together to collaborate on new ideas and get awareness about the latest trends and innovations in their Leadership Skills, Women Safety and Security, Health and Career Development. Also to administer the IEEE Student and Research Engineer Program to mentor young girls in junior high schools.



Ms. Deepthi Ravula, CEO, WE-HUB, addressing the gathering



School girl students from ZPHS Narkhuda, Shamshabad

IEEE Student Branch Activities

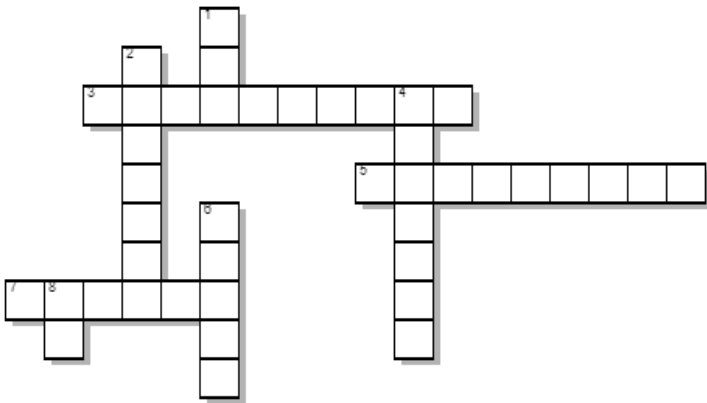
1. IEEE VNR VJIET SB organised Swecha Summer Internship Programme for a month from 25.5.2019 to 23.6.2019 in order to provide quality software global solutions with free software development model.
2. IEEE VNR VJIET SB in association with IIT Hyderabad organised 1-day workshop on “Arduino Hands-on Training Session” on 25th July 2019 at VNR VJIET, Hyderabad. Total 72 undergraduate students participated in the event.
3. IEEE VNR VJIET SB organised Membership Development Programme and an expert talk on “Digital transformations & AI” on 21 August 2019. Total 450 undergraduate students participated in the same.
4. IEEE CMR Technical Campus SB organized an expert talk on “Social Engineering” on 21.8.2019. Total 250 participants attended the session.

IEEE Hyderabad Section volunteers' activities

1. Dr. Atul Negi, chair, Awards and Nomination committee was invited as session chair and to deliver a technical talk in All India seminar on “Cyber Security and Image Processing” held on 10-11 August 2019 at Telangana State Centre, Hyderabad organised by Institute of Engineers (IE).
2. Dr. Atul Negi, chair, Awards and Nomination committee was invited to deliver a technical talk in EBSCO IEEE Lunch & Learn | Knowledge Feast – Hyderabad on 7th August 2019 on “IEEE impact in engineering discipline” at Hotel Taj Krishna, Hyderabad.
3. Dr. M. Laxminarayana, past chair, IEEE Hyderabad section was invited as session chair and to deliver a technical talk in All India seminar on “Cyber Security and Image Processing” held on 10-11 August 2019 at Telangana State Centre, Hyderabad organised by Institute of Engineers (IE).

Synapse Crossword Contest

Crossword – September edition



ACROSS

- 3 City name CAS research forum organised
- 5 R10 award Hyderabad section won
- 7 Conference name held at Vizag

DOWN

- 1 City name R10 CLP organised
- 2 Society name conducted BC event at Guntur
- 4 Name CEO of WiE-Hub
- 6 University name SSC 2019 organised
- 8 Society name conducted two events on Digital Reality

Call for articles / Individual member achievements

It is decided in the Section meeting that individual member accomplishments like publishing of a paper in IEEE journal/conference, taking up of a new position/responsibility (IEEE or any office of Public Interest), elevation to IEEE membership status, IEEE awards/Notable mentions can be mentioned in the newsletter under the achievements column to be started from next issue of newsletter. Please send in your articles/achievements for publication in newsletter to synapse@ieeehyd.org

You can win IEEE Hyderabad section Branded merchandise by participating in the Synapse Crossword Contest. Follow these steps and send the results to synapse@ieeehyd.org

1. Read the complete newsletter as the clues are available in the various sections of this newsletter
2. Complete the crossword (by hand on sheet of paper) and send a scanned copy/photo of the crossword to synapse@ieeehyd.org with the following details – Name, Organization, Email address, Mobile Number and IEEE membership ID (This contest is open to only IEEE Hyderabad Section members)
3. First five correct entries will be rewarded – Hurry Now!!

IEEE Hyderabad Section Slate 2019

Section Executive Committee

Designation	Name	Organisation	E-mail
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