



IEEE
HYDERABAD SECTION

SYNAPSE
The Newsletter of IEEE Hyderabad Section

January 2020

www.ieeehyderabad.org

Issue III

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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

Happy New Year..!



I am extremely honored for the confidence instilled in me by the Section nominations committee to lead **IEEE Hyderabad Section** for the year 2020. Hyderabad Section under IEEE has had a very strong legacy of high profile engineers, eminent Scientists, enthusiastic corporate professionals and distinguished technocrats. I am privileged to partner with such a prodigious Section Executive Committee of 2020 representing Technical Society Chapters, Affinity groups and Co-opted committees. IEEE has witnessed tremendous changes conforming to Technology and Industry sectors in the last century. Now it's the dawn of an era of Artificial Intelligence and Machine Learning, IOT and Cyber Physical systems. For this year at Hyderabad section, we will align our programs as suggested by IEEE Future direction recommendations. At the outset, I would like to strengthen our Women in Engineering and Young professionals communities and support several initiatives like Skill Connect and Internship programs initiated by Section. 2020 IEEE Hyd-Con call for papers is open, I request members to make use of this opportunity. Our team is always welcome to questions, concerns and ideas from our esteemed members and I pledge to seek and be guided by your valuable inputs. You may bank on me for us to work together and find innovative ways to interconnect with most of members to help our Section thrive as a strong post.

There are many prominent IEEE activities and events lined up for the year, kindly keep an eye on our eNotices. I look forward to all of us having a fulfilling and a rewarding association with IEEE.

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

Best regards,
Amit Kumar

Achievements

1. **N V Rao** received **2019 India Council Section Chair Lifetime Achievement Award**.
2. **Vamsi Krishna J** was presented with **MGA Young Professionals Achievement Award 2019**.
3. **IEEE Signal Processing Society** was awarded as **Best Chapter of the Year Award** for the year 2019.
4. **Sai Prashanth, Vardhaman College of Engineering** has bagged **India Council Outstanding Student Volunteer Award 2019**.
5. **IEEE Hyderabad Section** has received highest grant of **5000 USD** for 2019 R10 Section Incentives - activities from Nov 2018 - Oct 2019.
6. **CAS/EDS Jt. Chapter** awarded as the **Best chapter** of the **IEEE Hyderabad Section**.
7. **ComSoc/SPS Jt. Chapter** was the **1st runner up** in Best award category
8. **CIS/GRSS Jt. Chapter** was the **2nd runner up** in Best award category
9. **WiE affinity group** awarded as **Best Affinity group** of the IEEE Hyderabad Section.
10. **Vizag Bay Sub section** awarded as **Best Sub Section** of the IEEE Hyderabad Section.
11. **G. Ramesh** of **VNR VJIT** has been elevated to **Senior member grade**.

IEEE Hyderabad Section Activities

AISYWC 2019

AISYWC (All India Student YP/WiE Congress) the annual hallmark event of **IEEE India Council** was hosted by IEEE Hyderabad Section at CMR Group of Institutions, Hyderabad from 28-30 September 2019. With the theme being “Acquire knowledge, Ideate to innovate, Strengthen skill set, Youngsters on a learning spree, weaving networks to nurture, Collaborate to change the world”, the event brought in over 700+ delegates from all the 11 sections. Sri C H Malla Reddy Garu, Minister of Labour, Employment, Women and Child Development, Government of Telangana presided over as the Chief Guest.



Dignitaries on dais during Inaugural function

Dr. Vijayalata, Congress Chair delivered the welcome speech and Sri. N Venkatesh addressed the gathering and appreciated the efforts put in by the volunteers and participants alike in making this meet happen and wished for its grand success. Sri. CH. Malla Reddy then

extended his warm welcome to all the delegates and wished them a comfortable and enlightening stay in the ‘City of Pearls’. He encouraged the youth to utilize ample opportunities by hard work which is destined to bear fruit in the long run. The Director of IEEE India Operations, Mr. Harish Mysore graced the occasion and expressed his hope. The inaugural ceremony culminated with a vote of thanks by Dr. Amit Kumar.



IEEE Tell-a-Tale Launch

IEEE Tell-A-Tale, a project that aims to share the unique and inspiring experiences of volunteers of IEEE was launched after the inauguration. The meet was then progressed by the first Keynote Address on ‘DSP through Digital Filtering’ by Dr. GVV Sharma, IIT Hyderabad. He motivated students to widen their horizons and to look for brighter dimensions implying, “Science is the beginning after which Art takeovers”. Dr. N Srinivasa Rao, delivered a session on

‘Microwave Theory & Techniques- Initiative & Opportunities for Young Minds’. Dr.Sulakshana Chilukuri, spoke on ‘The Importance of research in RF and Microwave Engineering’. An apt speaker for the same, she primarily focused on how her field still remains untouched to the larger part of the group.

Mr. Murali Bukkapatnam, entrepreneur, Volkys Technologies, delivered a session on ‘Entrepreneurship in the Global Perspective’. The next talk was on ‘Failures, Learning and Experiments: Achieving Something Meaningful’ by Mr. Puneet K Mishra.

The evening progressed with excitement as there was a standup comedy by Mr.Sudeendra Koushik primarily revolving around his native place Bangalore. The second day of the Congress started with a positive vibe of converting Obstacles into Opportunities. This wave of energy was spread by Dr. Sandhya Kode , Director, Training and Development, IIIT Hyderabad.The point of ‘Strengthening our core and building resilience’ resonated well with all the participants. One key take away was that it is not just IQ (Intelligent Quotient) that determines the pinnacle of success but EQ (Emotional Quotient), SQ (Social Quotient) and most importantly AQ(Adversity Quotient) that makes all the difference.

Mr. Anil Rachamalla Social Activist and Founder of ‘End Now Foundation’ gave a talk on Digital wellbeing - building a positive digital footprint session. Afternoon session began with TEMS panel discussion with five eminent speakers.

Prof. Atul Negi, University of Hyderabad, gave insights on the revolutionary science of ‘Artificial intelligence and AI for Social good’. Mr. N Venkatesh, Chair, IEEE Hyderabad Section, delivered a session on “Wi-Fi connectivity for remote sensing drones”. He explained about Rate vs Range, LoRa, and STBC and concluded by drawing parallels from the field of Geoscience and Remote Sensing Society. The Life Members (LM) track was also organized on Day 2 of AISYWC 2019. Mr. V. Prasad Kodali delivered the first talk on ‘IEEE Life Members- a 130 Year History of Philanthropy.’ The first session of the final day of the congress was taken by Mr. Vamsi Krishna J & Mr. Abishek Appaji on the topic “Crossing the chasm from Student to Studentpreneur”. The flagship event of IEEE India Council AISYWC 2019 concluded with a Valedictory session and distribution of certificates. Mr.Vamsi J Krishna delivered the ‘Vote of Thanks’ for the event.

IEEE Computational Intelligence Society / GeoRemote Sensing Societies

Winter School at Vignan University, Guntur

“Winter School on Advances in Remote sensing and its applications” is a five day event organized during 8th – 22nd December, 2019 at VFSTR (Deemed to be University). **Dr. N. Rama Rao** from IIST, Trivandrum was invited as the Chief Guest for this event. The event kicked off with the inaugural speech by Dr. N. Usha Rani, Senior IEEE Member and Convenor of the event, addressed the gathering stating the importance of Remote Sensing and its key applications, the sole purpose of conducting this event. She stated that the prime reason for conducting the event is to cast light upon Remote Sensing Technology and various related aspects in the contemporary scenario so that one can easily come with new concept or solution to the existing problems in this domain.”

The keynote session was given by **Mr. Rama Krishna** CEO, Efftronics Pvt. Ltd on Industry 4.0 and

its significance. **Dr. N. Rama Rao**, from IIST, Trivandrum discussed on Remote Sensing and key notes on data, approaches and evolving applications. **Prof. Alejandro** talked about Science, Reproducibility, Replicability in Remote Sensing via a Skype call.



Dr. Usha Rani felicitating Mr. Anand Jadhav, TDI

GRSS DL at MJCET , Social evening at HICC, Gachibowli

CIS/GRSS, IEEE Hyderabad Section organised a social evening with GRSS distinguished lecturer, Prof. Alejandro C. Frery, Universidade Federal de Alagoas, Maceió, Brazil at HICC, Gachibowli. Prof. Atul Negi, Prof. Alok Singh, University of Hyderabad, T. Hitendra Sarma and Mousmi Ajay Chaurasia joined the evening to discuss the future prospectus of GRSS chapter launch in various student branch and the available funding opportunities from GRSS headquarters.



L-R: T. Sai Kumar, Mousmi A. Chaurasia, A. Raji Reddy felicitating Prof. Arun Sharaf, IIT Roorkee

GRSS DL at MJCET , Social evening at HICC, Gachibowli

CIS/GRSS, IEEE Hyderabad Section has organised GRSS distinguished lecturer program at two different locations in association with following IEEE student branches on “**PolSAR Scattering Power Factorisation Using a Geodesic Distance**”:

- BITS Pilani, Hyderabad Campus on 14th October 2019
- MJCET, Hyderabad on 15th October 2019

The speaker of the event was Prof. Alejandro C. Frery, Universidade Federal de Alagoas, Maceió, Brazil. He focused on generic Scattering Power Factorisation Framework for PolSAR data to directly obtain N scattering power components along with a residue power component. Each scattering power component is factorised into similarity using elementary targets and a generalised volume model. The similarity measure relies on a geodesic distance between pairs of 4×4 real Kennaugh matrices. In standard model-based decomposition schemes, the 3×3 Hermitian positive semi-definite covariance (or coherency) matrix is expressed as a weighted linear combination of scattering targets following a fixed hierarchical process.

The program was celebrated on the occasion of IEEE Day and also as a satellite event for 2020 IEEE-HydCon.



L:R: T. Hitendra Sarma, Prof. Alok Singh, Prof. Atul Negi, Prof. Alejandra C. Frery, Mousmi A. Chaurasia

Expert talk at CMRIT

An Expert talk on “**Applications of Geo informatics to solve ground water problems in hard rock terrain of the country in 2-3 years**” was conducted on 7th September 2019 at CMR Technical Campus, Hyderabad as a satellite event of IEEE HYDCON 2019 under IEEE Hyderabad Section, Joint Chapter of IEEE CIS/GRSS in association with CMR Technical Campus, Hyderabad. The event was inaugurated by Prof. Arun K. Saraf, Professor in the Department of Earth Sciences, IIT Roorkee, an expert talk Guest, Dr. A. Raji Reddy, Director, CMRTC, Dr. Mousmi Ajay Chaurasia, Secretary/Treasurer, IEEE CIS/GRSS and Saikumar Tara, IEEE CMRTC Student Branch, CMRTC. Over 150 participants from dept of ECE and Civil branches of CMR Technical Campus, Hyderabad attended this talk. Over all the lecture was excellent and outstanding with insights on the research work carried out in the area of Geo informatics specifically focused on under-ground water problem with experimental research carried out in GIS which used MATLAB tool for the process of imaging.



Prof. Alejandra C. Frery delivering his talk

John McCarthy Memorial Lecture 2019

Dr. Hitendra Sharma, Chair, Computational Intelligence GRSS Society of IEEE Hyderabad Section launched the 4th John McCarthy Lecture (JML) on 14th November, 2019 at Plaza Hotel. Event was attended by over 60+ IEEE and non-IEEE members. Mr. N Venkatesh, Chair of IEEE Hyderabad Section gave a brief description about the IEEE Hyderabad initiatives and the vibrant activities which collectively resulted in the recognition of 'Outstanding Large Section Award' for IEEE Hyderabad Section. Dr. Atul Negi described the connections associated to Control Systems and embedded logic driving into Artificial Intelligence.

Dr. Atul introduced Dr. M. Vidyasagar whose work in Control theory is considered to be commendable and invited him to grace the occasion to speak on Artificial Intelligence. Dr. M. Vidyasagar covered about AI and its impact in building the machines which can sense, analyze, reason and respond. AI Excitement has deepened into Sciences with advancements in Image processing, Speech processing, Natural Language processing and Game Playing.

Advances in Speech and Natural Language Processing – IVR systems work very well on structured queries but accuracy still need to be handled on unstructured queries. Some of the On-line translation between languages cannot capture the "mood" – suitable for business contracts but not for poetry. The research community is beginning to recognize that the mathematical foundations of deep learning are not well understood. In contrast, the mathematical foundations of "shallow learning" are quite well-understood.

Lecture was well received by the audience, also comprising of eminent personalities- IEEE Fellow and Padma awardee Prof. Deekshatulu, and IEEE Senior members, Professors and Students from various educational institutions of Hyderabad and NIT Warangal.



Prof. Atul Negi felicitating Prof. M. Vidyasagar, IIT Hyderabad with N. Venkatesh, Section Chair, Prof. Deekshatulu, fellow IEEE and senior members of IEEE Hyderabad Section

Expert talk on Blockchain Technologies at MJCET

CIS/GRSS, IEEE Hyderabad Section in association with IEEE MJCET SB organised an Expert Lecture on "Blockchain Technologies: Applications and Career Opportunities" at MJCET, Hyderabad on 6 September 2019 by Mr. Dharmen Dhulha, Tech Mahindra, Hyderabad. He explained many indicators of how high the demand is for people with blockchain skills. Blockchains may have begun in finance to support cryptocurrencies, but now blockchain technology and the solutions it can provide are being explored by industries right from healthcare to insurance to manufacturing and more. He gave instances on the use cases for Financial Services, Government, Healthcare, Internet of Things (IoT) etc.



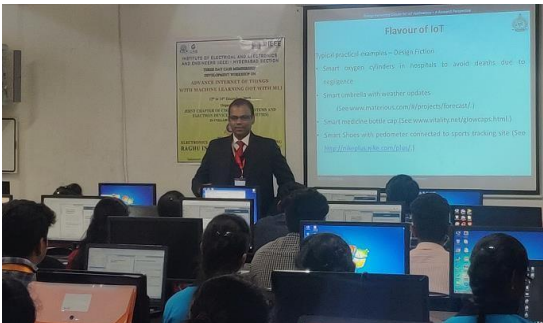
L-R: Mr. Dharmen Dhulha, Tech Mahindra receiving memento from Mousmi A. Chaurasia with Akhil Agheer and organiser

IEEE CAS/EDS Joint Chapter Activities

Advance Internet of Things with Machine Learning at RIT, Vishapatnam

IEEE Circuits and Systems society and Electron Devices Society joint Chapters of IEEE Hyderabad Section in collaboration with Department of Electronics & Communication Engineering, Raghu Institute of Technology, organized a **Three day workshop on Advance IoT with Machine Learning** during Dec 12-14, 2019. The recently constituted IEEE Circuits and Systems Society (CASS) Chapter of IEEE student branch at Raghu Institute of Technology hosted the event. Mr. Sai Prasanth Kanumuri, Mr. SrikarSomanchi, Mr. Harsha Vardhan Marrisetty, Ms. N V Monalisha Mohanty, Mr. Sai Ramana Ganesh Vasanthavada, Ms. Amrutha Tamarapalli, Ms. LaxmiJahnvi Vanam, Ms. Shalini Raghupatruni are the student members of the

CASS Chapter have also served as teaching assistants in the workshop for which they received appreciation certificates from IEEE Hyderabad Section. Similarly, Mr. O.Santa Ram, Ms. Manisha, Mr. Kamal, Mr. Shiva Balaji, are other IEEE student branch members who have extended their support as volunteers and made the event happening.



Arifuddin Sohel is delivering the session

There were about 72 participants from various colleges of Visakhapatnam, Vizianagaram, Srikakulam, Krishna, East Godavari and west Godavari Districts. Prof. Md. ArifuddinSohel, IEEE CAS/ED Societies joint Chapter Chair delivered lectures on Machine Learning and implementation using Python on Jupyter Notebook. Prof. VVSSS Chakravarthy, Mr. Muniruddin, Mr. Badrinath Chitti and Mr.Adithe Sarma have delivered lectures and conducted hands on practice session using Node MCU and Raspberry Pi. The participants have successfully developed various IoT based projects during the hands on sessions.

PM. The speaker of this technical talk was Prof. DVSS Siva Sarma, Professor, NIT Warangal and Saikumar Tara, Secretary, IEEE Education Society. The speaker emphasized that the role of a teacher is very limited in societal changes and hence a teacher should be more relevant and that technology in this digital era and teaching-learning should go hand in hand. A teacher should understand how a learner learns. The speaker introduced a platform for creating digital content by teachers to explain certain subject topics- Edmodo, Flipclass etc. The session was very interactive with many anecdotes from the faculty members from their experiences. The participants gave a very enthusiastic response and engaged in lively and deep discussion with the speaker. There were 40 participants in this session of which 35 were IEEE members.



Group photo with Participants and organizers

Expert talk on **“Teaching Strategies for 21st Century learners”** at PSCMRCET, Vijayawada.

An Expert talk on **“Teaching Strategies for 21st Century learners”** on 20th November 2019 at PSCMR College of Engineering and Technology, Vijayawada. under IEEE Hyderabad Section, and IEEE Education Society Hyderabad. The event was inaugurated by Prof.DVSS Siva Sarma ,Professor in the Department of Electrical Engineering , Dean (Faculty Welfare) NIT Warangal and Chair IEEE Education Society, as Guest Speaker,Principal, HODs of PSCMR CET were present. and Faculty members of PSCMRCET. Total 80 participants from various depts. of PSCMRCET, Vijayawada .Over all the lecture / talk was excellent and outstanding on the strategies for teaching learning. The participants were overwell with the talk and gain much insight from the speaker.



Group photo with Participants and organizers

IEEE Education Society Chapter activity

Half day Technical Talk at Hotel Meghalaya, Vizag

IEEE Education Society, IEEE Hyderabad Section in collaboration with IEEE Vizag Bay Sub Section conducted a half day technical talk on "Usage of ICT Tools for Enhanced Learning Outcomes in Higher Education and Technical Paper Writing Skills" on Saturday, 14th December 2019 at Hotel Meghalaya, Vizag, Andhra Pradesh, India from 3:30PM to 6.00



Prof. DVV Sarma is delivering the talk

Department of Electronics and Communication in collaboration with IEEE Education Society conducted a half day workshop on "Learning Paradigms for Outcome Based Education in Digital Era" on Saturday, 30 November 2019 in Seminar Hall, Block IV, MJCET from 10.00 AM to 1.00 PM. The speaker of this workshop was Prof. DVSS Siva Sarma, Professor, NIT Warangal. The workshop commenced with a formal welcome by the Head of the department, Prof. Arifuddin Sohel followed by introduction of the speaker by Ms. Salma Fauzia. The speaker stressed upon giving attention to the academics and the pedagogical aspects of implementation. The speaker and faculty members discussed collaboratively on the different methodologies that can be used in the process of teaching and learning. The speaker emphasized that the role of a teacher is very phenomenal in the contemporary world and hence a teacher should be well versed with the current technologies in this digital era and teaching-learning should go hand in hand. The speaker then introduced a platform entitled Edmodo for creating digital content by teachers to explain certain subject topics. The session well coupled with references was able to drive the point home. The participants gave a very enthusiastic response and were engaged in lively and deep discussion with the speaker. There were 55 participants in this session of which 8 were IEEE members.

Workshop on "Recent Advances in Antennas & Microwave Circuits with Application"

A 3 -day workshop was conducted by IEEE MTT-S (Head Quarters) and IEEE MTT-S Hyderabad chapter in collaboration with Matrusri Engineering college as Host, during 18-20 Nov, 2019 (3 days) at Matrusri Engineering College, 16-1-486, Saidabad, Hyderabad. The workshop was inaugurated by Prof. SK Kaul, IIT-Delhi and it was followed by his keynote lecture.

The workshop was devoted to the fundamental theory, recent developments and research outcomes addressing the related theoretical and practical aspects in the usage of advanced RF tools and techniques for the design of practical RF antennas and microwave circuits. This workshop brought to light the new areas of research and development being carried out in universities abroad and rest of the world. Also the workshop enhanced the research competence of faculty in the areas of RF antennas and microwave circuits with simulation studies by providing exposure to practical problems and solutions, through case studies and live projects.

Technical Lecture on "Reconfigurable Antennas: Theory, Challenges and Physical Implementation" at OU, Hyderabad

A technical lecture on "Reconfigurable Antennas: Theory, Challenges and Physical Implementation" by Dr. A. Bharathi, Assistant Professor, ECE Department, UCE, OU, was conducted on 26th Oct 2019 at Auditorium, ECE Dept., University College of Engineering, Osmania University Hyderabad.

The technical lecture established that analysis, design, fabrication and testing are four important aspects of any antenna system development. It was rightly pointed out that the communication technology has been augmenting rapidly and current wireless communication systems have ability to achieve multifunctional capabilities with a single system supporting several applications under different operating conditions. However, as each application operates in a different frequency band, with different radiation pattern or different polarization, such a single system requires multiple antennas. This is because historically from a Systems' stand point, antenna has been viewed as a static device. Once an



Arifuddin Sohel, Kaleem Fatima felicitating Prof. DVV Sarma

antenna design is finalized, its operational characteristics remain unchanged. This has driven innovation in antenna towards multifunctioning capabilities in competence with the contemporary communication systems. She stated that reconfigurable antenna is a remarkable technology that adds novel features to existing conventional antennas whose characteristics are fixed and remain unchanged. The talk also explored emerging areas of reconfigurable antennas from basic concepts that provide insight into theoretical foundation, fundamental design approaches and practical considerations of various reconfigurable antennas. The event was attended by about 75 enthusiastic participants.



Dr. M. LakshmiNarayana felicitating Dr. A. Bharathi, UCE, OU

9th Sir J C Bose Memorial Lecture on 'Phased Arrays and Related RF Technologies for mm wave 5G Communication' at Hotel Plaza, Hyderabad

9th Sir J C Bose Memorial Lecture on 'Phased Arrays and Related RF Technologies for mm wave 5G Communication' by Professor K J Vinoy, Fellow INAE, IISc Bangalore was hosted on 30th Nov 2019 at Hotel – The Plaza. The event is a flagship event of the chapter and was the ninth instalment in the series. The event started with a short briefup on Sir J C Bose's life and work by Chapter Chair, Sandeep Satav, Scientist RCI, DRDO. The speaker, Prof. K J Vinoy indicated that Acharya Jagadis Chandra Bose was well recognized as a pioneer in millimeterwave (mmw) technologies, among several other impactful contributions. He stated that Sir J C Bose's mmw experiments are now regarded nearly a century ahead of the other comparable developments in the area. He further added that commercial technologies have only recently begun to scratch the surface of the possibilities awaiting at millimetre wave and beyond. In this talk, some of his recent research efforts towards mm-wave beam steering antennas and related RF technologies was discussed. He stated that due to the high free space loss, communication links at mm waves require high gain, beam steering antennas. As part of the activities towards

an indigenous 5G test-bed, the group led by Prof K J Vinoy has developed a beam steering antenna prototype working at 26 GHz, the likely band identified for mm wave 5G communications in India. Several interesting array design challenges based on unique aspects of this system were presented. Towards, device technologies at mm waves, a highly reliable microelectromechanical switch with a low actuation voltage has also been fabricated and characterized in IISc was also presented.

The lecture was followed by a question – answer session. The event brought in more than 60 participants.

IEEE Vizag Bay Sub- section activity

Teacher In-Service Programme [TISP] at Government High School, AP

Teacher In-Service Programme was organized by IEEE Vizag Bay Sub-Section on 30th November 2019 at Government High School, Payakaraopeta, Near Tuni, Andhra Pradesh. 39 Science teachers from 19 different Government High Schools of Visakhapatnam District participated this event. Sri M.G.P.L. Narayana Past Chair IEEE Hyderabad was the Chief Guest and mentioned the need of inculcating a scientific temper from an early stage. He gave few examples of distinguished scientists and their observations on science education. He also emphasized the need of inventions and Science education in Engineering education stream. Sri K. V. Sriram, Chair IEEE Vizag Bay Sub-Section mentioned that the teachers need to kindle the curiosity of learning in children. Dr Abraham spoke on the recent scientific developments. Dr. Lakshminarayana Sadasivuni described the "Research in Social Networks and how traditional science helped the modern age". Smt. Ili Abraham, the resource person of this event spoke on "Teaching Science in Modern age". Teaching Methodology kits, Exhibits of Learning and Teaching Science and Concepts of Science Curriculum Posters were presented to the teachers by Sri M.G.P.L. Narayana. Feedback received from the participants is in the level of 91% in the areas of Rating of the Speaker and Speaker Content. Sri Naresh Headmaster finally proposed vote of thanks.



Group photo with Participants and organizers

Guest Lecture in AISYWC 2019

In AISYWC-2019, a talk has organized under Women in Engineering with a positive vibe of turning an obstacle into an opportunity. This positive vibe was spread by Dr. Sandhya Kode Director, Training and Development, IIIT Hyderabad. She began the session by explaining how to turn obstacles into opportunities. Ability to learn and life long journey, collaboration, communication skills, integrity leveraging the technology and leveraging strength were some of the points shared by her. She insisted on some important points such as the right way to treat other people is how you want to be treated and choosing the right thing in difficult situations is the real life. She concluded her speech by motivating the gathering to strengthen the core, exercise, build resilience especially adversity quotient to turn obstacles into opportunities.



Dr. Sandhya Kode, Director, IIT Hyderabad delivering the talk

Lalitha Memorial Lecture 2019

Women in Engineering Affinity Group, IEEE Hyderabad Section has organized a second flagship event under WIE, IEEE Hyderabad Section “Lalitha Memorial Lecture” along with WIE AG Decennial Celebrations on 16th December 2019, at Hotel The Plaza, Begumpet, Hyderabad. LML had initiated by me in the last year as a New Lecture Series in the memory of "Ayyalasomayajula Lalitha", the First Woman Engineer in India. The vision of initiation of this lecture is minimizing the gender gap and assists the sustainable development of our country for Science, Technology, Innovation, and Entrepreneurship among woman. The mission of this lecture is to promote, to excel, to motivate young girls towards STEM, to make every woman to participate and reach their goals professionally, to emphasize, to retain and bring back the women dropping out in large numbers in mid-career into workforce and to inculcate a “career identity” in strong young brains, which makes them to handle the demands of their personal and professional lives. The speaker for the

second LML talk is Mrs. Durga Rao, Managing Director, Sulakhshana Circuits Limited, and she has delivered a talk on “The Challenges of a Woman Technopreneur in the Electronics Manufacturing Sector”.



Dr.M.Lakshmi Narayana felicitating Ms. Durga Rao, CEO, Sulakhsha Circuits
L:R: P. Bala, M. Lakhminarayana, Ms. Durga Rao, N. Venkatesh, G. Sreelaxmi, Y. Padmasai, Harivardhini

Computer Society and Quantum Computing SIG Activities

IEEE Hyderabad Quantum Computing Special Interest Group (SIG) is an initiative under the Computer Society Chapter of IEEE Hyderabad Section. The SIG, supported by IIIT Hyderabad & Microsoft conducted Workshop on Quantum Computing on November 16, 2019 covering the session by Prof Nirman Ganguly from BITS Pilani Hyderabad "Basics of Quantum Entanglement and Quantum Computing" and talk delivered by Dr. Urbasi Sinha from Raman Research Institute on "Experimental Quantum Computing and Quantum Cryptography by manipulating Light Quanta". Prof Nirman covered the themes of Quantum applications from theoretical context.

Event was attended by 108 delegates who spanned attention of all kinds of age groups. It was broadcasted on @IEEEQuantumSIG facebook live page and ran the Twitter contest for delegates and winners were Ramkaran Rudravaram and Aditya Rao. Facebook live was attended by 134 participants and Twitter had a reach of 3300 members. N Venkatesh, Bala Peddigari, Reena Dayal and SIG group execoms were part of the event.

It was participants and committed volunteers made this event a great reach and had high impact with huge success. This brings great energy to IEEE Hyderabad Quantum SIG to bring in high value programs.



Group photo of participants with organisers

IEEE Student Branch Activities

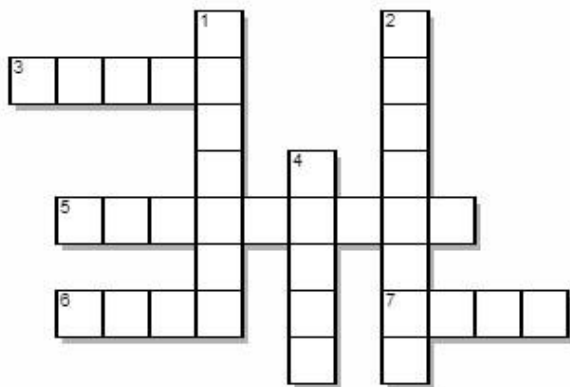
1. IEEE CMRTC SB organized a technical talk on “Technical Paper Writing Skills in IEEE Standard” on 16th Oct 2019 on the occasion of WORLD FOOD DAY. Total 15 faculty member have participated in the same.
2. IEEE BVRIT SB organised POSTER PRESENTATION AND 3D MODEL MAKING on ‘Success stories and space concepts of ISRO’ on 1st October 2019. Total 62 participants attended the session.
3. Sree Vidyanikethan Engineering College, Tirupati launched IEEE Women In Engineering (WIE) Affinity Group on 13 September 2019.

IEEE Hyderabad Section volunteers’ activities

1. Tilottama Goswami, execom member, CIS/GRSS, IEEE Hyderabad Section delivered a talk for AICTE Sponsored Two-Week Faculty Development Program on Advances in Signal and Image Processing with hands-on training using MATLAB held in Geethanjali College of Engineering and Technology(Autonomous), Hyderabad on 26 Nov 2019.
2. Tilottama Goswami delivered a guest lecture on "Photo Caption Generation using Deep Learning Model" on 27 Sept 2019 during 3-Days Workshop on Introduction to Deep Learning, at MVSR (Affiliated to OU), Hyderabad.
3. Saikumar Tara, secretary, IEEE Education Society, IEEE Hyderabad Section Delivered a talk on **Benefit of Membership** and a technical talk on “**Social Engineering**” at IEEE HITAM SB on 01st OCT 2019 on the occasion of **10th IEEE DAY 2019**. Total 150 undergraduate students participate in the same.
4. Gollapudi Ramesh Chandra, Treasurer, Computer Society, IEEE Hyderabad Section delivered a invited talk on 11th Nov, 2019 titled "3-D Deep Learning Models" for AICTE - Sponsored Two Week Faculty Development Programme On Deep Learning and Big Data Analytics (DLBDA) at SRKR Engineering College, Bhimavaram.
5. Gollapudi Ramesh Chandra, Treasurer, Computer Society, IEEE Hyderabad Section presented a paper titled " Detecting Radius of Pipe in GPR Images and Comparing with 3-D Synthetic Data" in International Conference on Image Information Processing (ICIP-2019) indexed by IEEE at Jaypee University of Information Technology (JUIT), Shimla, Himachal Pradesh held from 15th to 17th November, 2019. This research is supported by Jawaharlal Nehru Technological University Hyderabad (JNTUH) TEQIP-III Collaborative Research Fund with Procs No. JNTUH/TEQIP-III/CRS/2019/CSE/02.
6. C. Harinatha Reddy attended PES Chapter Training on 1st December 2019 at Macau, China. He represented PES/IAS/PELS Jt. Chapter of IEEE Hyderabad Section.

Synapse Crossword Contest

Crossword – January edition



ACROSS

3. Country conducted PES Training
5. City where AISYWC organised
6. Society conducted Winterschool
7. Name of section chair

DOWN

1. Best Chapter award 2019
2. Chief guest of Lalitha memorial lecture 2019
4. Recipient of MGA YP award

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 except execoms)
3. First five correct entries will be rewarded – Hurry Now!!

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



2020 IEEE-HydCon 11-12 September 2020

International Conference on Engineering in 4th Industrial Revolution(EI4.0)

2020 IEEE-HydCon is biennial signature conference of IEEE Hyderabad Section will be organised on 11-12 September 2020 at Hyderabad, India. This conference, shall offer insightful plenary talks and keynote addresses, tutorials and workshops by leaders in academic research and industrial practice and by domain experts. The frontiers of research will be presented through technical paper presentations. The theme of the conference is about the Fourth Industrial Revolution, called Industry 4.0. Modern society is being disrupted by technological revolution coming at a fast pace. Major impact is being seen to fundamentally alter the way humanity lives, works, and relates to one another. It is at a scale, scope, and complexity, unlike anything humankind has experienced before. Engagement with it must be integrated and comprehensive, involving all stakeholders of the global polity, from the public and private sectors to academia and civil society. IEEE Hyderabad Section as technology leaders brings this theme in the form of a landmark event in the conference 2020 IEEE-HydCon.

Call For Papers

Topics but not limited to

- Industry 4.0 Applied Areas
- Data Science & Engineering
- Computational Intelligence
- Communication & Networking
- Circuits and Systems
- Signal & Image Processing
- Power Engineering
- Microwave and Antennas
- Smart Technologies and Policies
- Engineering in Medicine and Biology



Industry Applications

Internet of Things and Robotics

RFID systems

Real-time locating systems (RTLS)

Sensing or Cyber-physical system (CPS)

Importance to unification of digital (cyber) with real (physical) workflows

Ubiquitous computing.

Internet of services (IoS)

Geoscience and Remote Sensing

Sustainable and Environmentally Safe Energy Technologies and policies

Why should you attend 2020 IEEE-HydCon?

- Special sessions for Women in Engineering and Young Professionals, entrepreneurship and innovation, and a special industry track make IEEE HYDCON unique. Attending HYDCON is a surety of excellent networking and industry exposure and access to the academic collaboration platform.
- IEEE Region 10 Industry Relations Committee will organise IEEE R10 Special Industry Track during HYDCON. Attendees can be assured of great Industry exposure and collaboration.

IMPORTANT DATES

Paper Submission Opens	- 1 st Sep 2019
Paper Submission Deadline	- 15 th Jan 2020
Paper Submission Extended Deadline	- 17 th Feb 2020
Paper Acceptance(onwards or before)	- 1 st Mar 2020
Camera-Ready	- 15 th June 2020
Special Session, Tutorial & Workshops Proposal Deadline	- March 15 th 2020.
Notification	- March 30 th 2020.



Submit Paper

Industry Professionals, Academicians, Researchers and students are invited to submit full papers (Maximum 5 pages) through the conference website.

<http://www.ieeehydcon.org/call-for#submit-your-paper>

Special Events at 2020 IEEE-HydCon

IEEE Young Professionals (YP) Track

IEEE Industry Relations (IR) Track

IEEE Women in Engineering (WIE) Track

IEEE Professional Activities (PA) Track

IEEE Technology and Engineering Management Society (TEMS) Forum

Travel/Accommodation

• Limited number of Student travel funds are available for authors of accepted papers. You can apply through '\Call for IEEE Region 10 Student Travel funds\' (IEEE Region 10 will send an enotice) in 2020.Travel/Accommodation support to authors of accepted papers submitted till.

- 5th Feb 2020 | upto **INR4000/USD 55** - 50 Numbers
- 5th Feb 2020 - 17th Feb 2020 | upto **INR2500/USD 35** - 25 Numbers

Student travel funds (STF) (upto USD 300) will be available for authors of accepted papers and attendees of Special Industry Track from IEEE Region 10 side. You can apply through "Call for IEEE Region 10 Student Travel funds" (IEEE Region 10 will send an enotice soon, Preference will be Given to Authors/attendees from outside India- 15 Number

Note: Above is applicable if your paper is accepted and was submitted within the stipulated deadline. Travel support will also be applicable to all authors who already submitted the papers on or before 15th Jan 2020. Separate Application to travel support fund is not required, the travel support decision will be sent along with your paper decision except the STF support



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