

IEEE-Kolkata Section-report of events held during the period-Dec19-Mar20 for Jan-Mar 2020 issue of the newsletter

- On 4th December 2019, 10:00 AM - 5:00 PM, **SPS Kolkata Chapter** organized a Programme on Development of Signal Processing Tools for Industry Standard Thermal Array Sensors at Electrical Engg. Dept, Jadavpur University. This program is a part of industry academia collaboration to provide solutions for industrial problems from academia. From M/s NTPL Pvt. LTD. Industry professionals were invited regarding their processing of data from thermal array sensor. Invitees from academia provides the possible solutions of signal processing tools that can be used for the processing of signals from Thermal Array sensors. Hands of experimentation and demonstration also done for the participants. Attendees 25.
- On 12th December 2019, 10:00 AM - 5:00 PM, **SPS Kolkata Chapter** organized a Programme on Signal Processing for Impulse fault Classification of Transformers at Electrical Engg. Dept, Jadavpur University. This program is a part of industry academia collaboration to provide solutions for industrial problems from academia. Distinguished academicians are invited to discuss different signal processing tools and machine learning algorithms for the development of indigenous system for the identification and classification of impulse faults of transformers. Attendees 27.
- On 17th December, 2019 **IEEE IAS Kolkata Section** organized a Technical Lecture Meeting at the Seminar Hall of the Department of Electrical Engineering at Indian Institute of Engineering Science and Technology, Shibpur, on the topic “**Recent Development On Solid State Transformer (SST) & Inverters For Renewable Energy Applications.**” The talk was delivered by Dr. Avik Bhattacharya, Assistant Professor, Department of Electrical Engineering, IIT Roorkee. The talk was attended by 27 participants, including 8 IEEE Members.
- **IEEE WIE, Kolkata Section**, handed over Cash Awards and Certificates of Appreciation at “International Conference on Computers and Devices for Communication (CODEC 2019)” held at Hotel Taj Gateway, Kolkata, during 19/12/2019 to 20/12/2019 to motivate young researchers, especially students and research scholars. The awards were dedicated for the Poster Session which was held on December 20, 2019.
- Technical Lecture Program was organized by **IEEE CAS Student Branch Chapter**, Electronics and Communication Engineering Department, Narula Institute of Technology & IEEE CAS Kolkata Section on 18th December, 2019 from 3:00P.M.-5:00P.M. at Seminar Hall, Narula Institute of Technology.
- The 2nd edition of the **Indian Conference on Antennas and Propagation (InCAP 2019)** was successfully held during 19-22 December 2019 at Gujarat. Dr. K. Sivan, Chairman-ISRO, Secretary-DOS & D. K. Das, Director, SAC Patron had inaugurated InCAP 2019 as the Chief Guest. The event was a great success with about 500+ attendees and 20+ sponsors and exhibitors. **IEEE AP/MTT-S Kolkata Chapter** played a key role in the inception of InCAP by merging two major events of the chapter - IEEE AEMC (since 2007) and Indian Antenna week (since 2010) and also by the technical sponsorship. It is indeed a joint initiative of seven IEEE AP-S Chapters in association with the IEEE AP Society. The focus of InCAP was the student community and young professionals and the 2019 conference was designed accordingly with Student Paper Contest, YP, Student Activity session, student travel grant support, 10 different awards to our student

community, and free student members paying first year's membership fee to several new student members joining the IEEE APS. This was indeed an encouragement for the new members. The list of prize winners includes quite a good number of our Section Members.

- On 24th December, 2019 a Lecture Meeting was organized by the **IEEE AP/MTT** Joint Chapter, University of Calcutta, 92, A. P. C. Road, Kolkata-700009. Speaker Dr. Somak Bhattacharyya, delivered his lecture on "Applications of Metasurfaces in High Frequency Region". The event was attended by various faculty members, research scholars and graduate students. **Attendance: 25** (19 IEEE + 6 Non-IEEE)
- International Seminar cum Research Colloquium on "MEMS based Sensors and Smart Nanostructured Devices" was held at Jadavpur University on 27th December 2019. Program was sponsored by RUSA 2.0, IC Design & Fabrication Center, Dept. of ETCE and technically co-sponsored by IEEE EDS Kolkata Chapter. No of attendees: 200
- **IEEE WIE, Kolkata Section**, handed over Cash Award and Certificate of Appreciation at "International Workshop On Networking Women In Distributed Computing And Networks (NWDCN 2020)" held in conjunction with the "International Conference On Distributed Computing And Networks (ICDCN 2020)" held at Hotel Hindustan International, Kolkata, on 04/01/2020 to motivate young researchers, especially students and research scholars. The award was dedicated for the Best Oral Presentation Session which was held on January 4, 2020.

IEEE WIE Kolkata Section handed over the following Cash Award and Certificate:



1 WIE Best Student/Research Scholar Paper Award: (Rs.2000/- Cash Prize and Certificate of Appreciation)

Title of the Paper: A Brief Survey on Various Prediction Models for Detection of ADHD from Brain-MRI Images

Recipient: Shristi Das Biswas, IEST, Shibpur.

- The **41st Annual General Meeting** of the IEEE Kolkata Section will be held on Wednesday, January 15, 2020 at 7-30 P.M. at AC Shamiana of The Tollygunge Club, 120, Deshapran Sasmal Road, Kolkata-700 033.
- IEEE Kolkata Section organized a Social Meet at Fortune Park Panchwati, Kona Expressway, Howrah, West Bengal 711 403 on Sunday 23rd February 2020.
- The **6th IEEE Kolkata Section's flagship conference CALCON -2020** was held during **28-29 February 2020** at **Hotel Senses, Salt Lake, Sector -V, Kolkata-91**. The focus of CALCON -2020 was the **students and young professionals** from academics and industry to engage themselves in good research and engineering for the benefit of the society. CALCON-2020 opened up good opportunities for the young professionals and students to learn from the eminent academicians **from ISI Kolkata, IIT Bombay and IIT KGP** who delivered keynote speeches in three different tracks on first day of the conference.



Kolkata Section Secretary, Dr. Debangshu Dey.

The Conference started with the inaugural song. Welcome speech was delivered by Organizing Chair-Prof. Iti Saha Misra. After this Section Chair, Mr. Sanjay Kar Chowdhury and TPC Chair, Prof. Sujit Biswas addressed the audience. In the Inauguration ceremony the Chief Guest was Mr. Ambarish Dasgupta, Senior Partner, Intueriglobal, Member, State Public Policy and Planning, Govt. of West Bengal, Guest of Honour was Prof. Chiranjeeb Bhattacharya, Pro-VC, JU, and the Special Guest was Prof. Souvik Mahapatra, IIT Bombay. Vote of Thanks was delivered by IEEE

Technical contributions were invited in three Tracks: a) Electronics & Communications, b) Electrical and c) Computer Science. Altogether received 203 valid technical papers were received for consideration in the Conference. Of these, 68 papers were in Electronics & Communications Track, 83 papers were in Electrical



Track and 52 papers were in Computer Science Track. The final camera-ready accepted paper tally was at total 100 papers for oral presentation and 9 papers in poster session, i.e., a total of 109 papers. This implies an acceptance ratio of 53.7%. The oral presentation papers have been organized into 16 Technical sessions in three parallel tracks. Electronics & Communications and Electrical tracks have 6 sessions each, while Computer Science track has 4 sessions. One common poster session is arranged for all the poster presentations, irrespective of track. Besides the regular

papers, the conference also had three Keynote Lectures to be delivered by leading personalities from academia in the three parallel tracks, on advanced research areas and cutting-edge technologies.

Keynote Speech in CSE Track was delivered by **Prof. Sanghamitra Bandyopadhyay, ISI Kolkata**. Title of the speech was “**Computer Science Methods to Solve Problems in Biology: Basics & Advancements**”. The Session was Chaired by Prof. Mita Nasipuri, Dept. of Computer Science & Engineering, Jadavpur University, Kolkata.

Keynote Speech in ECE Track was delivered by **Prof. Souvik Mahapatra; Professor, Department of Electrical Engineering IIT Bombay, India**. Title of the speech was “Introduction to CMOS Transistor Scaling & Reliability” Basics & Advancements”. The Session was Chaired by Prof. Mita Nasipuri, Dept. of Computer Science & Engineering., Jadavpur University, Kolkata.

Keynote Speech in EE Track was delivered by **Prof. Chandan Chakraborty, IIT Kharagpur**. Title of the speech was “**Renewable Energy Integration: Challenges and Opportunities**”. The Session was Chaired by Prof. Samarjit Sengupta, IEST, Kolkata.

WIE group arranged a WIE Special Session and our Student Members .

Keynote Speech in WIE **Special Session** was delivered by **Dr. Suparna Dhar IIT KGP, Department of EE, India** . Title of the speech was “Employing Data Analytics to Monitor Organization's Social Media Activity”. The Session was Chaired by Prof. **Prof. Iti Saha Misra, Electronics and Telecommunication Engineering, Jadavpur University, Kolkata, India**



titled **Cyber Security and its proliferation into Industrial Control Systems** presented by Mr. Pankaj Chawla.

CALCON-2020 also organized a **Student Panel Discussion**(which is the first of its kind) on a very relevant topic on “**Is India ready for NexGen Technologies?**” – where students from different Engineering Colleges will be engaged for sharing their views.

An **Industry Session** was organized where several industry personnel from **Ericsson, Check Point Software Technologies Ltd., Palo Alto Networks, NTT-Cisco, CESC** participated. **Checkpoint** conducted a session titled **5G & other technology options - from customer perspective** presented by **Mr. Sanjeeb Sengupta**. **Ericsson** conducted a session titled **Take back control of DNS traffic** presented by **Mr. Indrajit Sanyal**. **Palo Alto Networks** conducted a session

