NEWSLETTER

IEEE

KOLKATA SECTION

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Dear IEEE Kolkata Section Members, Greetings!!

It is my great honor and privilege to serve Kolkata Section. I also take this opportunity to appreciate and extend my wishes to all volunteers who will work for Kolkata Section and IEEE this year. Kolkata Section is a constituent of Region10(R10) and has demonstrated growth in membership which reached to 4705 by the end of 2023. Kolkata Section with 5 subsections, 17 Chapters along with 4 AGs viz. YP, WIE, SIGHT & LM form a formidable team with members displaying excellent volunteerism to take Kolkata Section to newer heights.

This year a new committee has taken up the responsibility of running the Section and I am confident that the execom members will go to the extent possible to take Kolkata Section to a new height. The Executive Committee in its first meeting acknowledged the contributions of the outgoing chair and other committee members. Major activities of the section in the first quarter of the year were Annual Social, Launching of Robotics Competition and events like CESC Milestone Commemorative Lecture, Final Round of Robotic Competition are lined up in the second quarter. Unfortunately, we still experience issues related to student retention and will do our best to alleviate this issue. I look forward for your continued support and hope for a wonderful and flourishing Kolkata Section

Thanks again for all your support and cooperation and looking forward to another interesting edition of newsletter in the second quarter. I wish to place a special thanks to the Section newsletter team for the efforts which went behind this edition. Your feedback will be of great help to us, do send us your comments to chandipani2309@gmail.com.

Sd/-
Prof. Suparna Kar Chowdhury,
Chair, Kolkata Section

IEEE Kolkata Section
Kolkata Section Annual Social-2024

Date and venue of Event : 11/02/2024, Kamala Gardens, Bibirhat, on Bakrahat Road

The annual Social of Kolkata Section was held on 11th February, 2024 at Kamala Gardens, at Bibirhat on Bakrahat Road. 49 IEEE members and their family attended the daylong event starting from 9-30 am onward.

All those who attended enjoyed the ambience with Student & YP members in particular getting involved in sports activities. One bus was arranged to ferry members from different corners of the city. Picturesque ambience, breakfast, sumptuous lunch and snacks & beverages made the day a memorable one.

Social meet at Kamala Gardens, Bibirhat, on Bakrahat Road organized by IEEE Kolkata Section

IEEE SSCS Kolkata Chapter
Technical Talk

Technical Talk on 8th January, 2024 organized by IEEE ED MSIT SBC and IEEE SSCS Kolkata chapter in association with Department of ECE, MSIT, Kolkata. Lecture was delivered by Mr. Dipanjan Sen, Ph.D. Scholar, Penn-State University, USA. He talked about 2D Materials and Devices for Ubiquitous Electronics. Total 40 Students and 10 faculty members from Department of ECE, MSIT, Kolkata attended the talk.

Technical Talk by Dipanjan Sen

Technical talks by distinguished speakers

Date and venue of Event : 29th February 2024 from 3PM-5 PM at the Department of Electronics and Telecommunication Engineering, Jadavpur University.

The first technical talk by Dr. Sourajeet Roy was on the topic of advanced VLSI Interconnects with emphasis on machine learning-based electronic design automation (EDA) of such interconnects. The second technical talk by Dr. Avirup Dasgupta was in the domain of advanced semiconductor device and modeling, and the use of machine learning for electronic design automation of compact models. The discussion also involved cryogenic device-circuit codesign, 2D materials, and green energy. This was followed by an interactive session on joint research prospects and scope of higher studies for students. The invited speakers were provided with tea and lunch packets, and the participants were provided with refreshments. Further, as a token of appreciation, mementos were handed over to the speakers at the conclusion of the event. Total 34 participants are participated in the talk.

Technical Talk by Dr. Sourajeet Roy and Dr. Avirup Dasgupta

IEEE CAS KOLKATA SECTION
INDIA GROWTH OUTREACH ACCELERATED LINKAGE (GOAL) PROGRAM

Date and venue of Event : 8th of January, 2024, IEM Gurukul Campus, Kolkata

The inauguration session was followed by felicitation of Mr. Preet Yadav, done by Prof. Mili Sarkar, faculty advisor of IEEE CASS, Kolkata chapter. Then Mr. Preet yadav addressed IEEE CASS society, highlighting its importances and exposure referring to the semiconductor and VLSI industry. The integration of technology was a highlight, showcasing its pivotal role in fostering growth. Real-world success stories added depth, and the talk addressed challenges with practical solutions. The interactive elements kept the audience engaged, making it a well-rounded and informative session. Total 20 participants are participated in the program.

India growth Outreach Accelerated Linkage program

INDIA GROWTH OUTREACH ACCELERATED LINKAGE (GOAL) ROGRAM

Date and venue of Event: 09/01/2024, Time:9.30pm to 2.30pm, GNIT Auditorium

We are pleased to announce that Department of Electronics and Communication Engineering (ECE) of Guru Nanak Institute of Technology organized the "India Growth Outreach Accelerated Linkage (GOAL) Program" on 9th January 2024 under the aegis of IEEE CASS Kolkata Chapter and IEEE CASS Delhi Chapter.

The programme was inaugurated by Prof. Swarup Kumar Mitra, Principal, GNIT and welcome speech was conveyed by Dr Sunipa Roy, HOD, ECE, GNIT and Convener of this programme.

The Keynote session was graced by Mr Preet Yadav, R & D SOC Technical Program Manager at NXP Semiconductor and Chair, IEEE CASS Delhi Chapter who has addressed "ONE CASS: Global Open Networked Engaging (ONE) Circuits & Systems Society" and with a consecutive session by Prof. Kamal Sarkar, Professor, Department of Computer Science and Engineering, Jadavpur University who has presented his talk on " How to Club VLSI with ML Algorithm".. Prof. Mili Sarkar , Chair, IEEE CASS Kolkata Section joined us to make the event successful.

A panel discussion has been arranged with 4 panelist to discuss IEEE CASS vision.

Mr Preet Yadav also shared some valuable thoughts on how to grab funding opportunity for students from IEEE CASS by opening a student chapter. Total 50 students are participated in the program.

The students were highly motivated by the talk, as the speaker has shown the pathway towards excellence in the Hardware field.

Some of the glimpses of the event are attached herewith for your kind perusal.

India growth Outreach Accelerated Linkage program

Name of the Event: Quiz Competition

Date and venue of Event: 25th of January, 2024, Kolkata Book Fair, Karunamoyee, Kolkata

The IEEE IEM Circuits and Systems Student Branch Chapter organized a quiz competition in the Kolkata Book Fair, one that was focused on recent trends, general knowledge, sports, science, space and electronics. The event also helped to promote IEEE and its importance. Many youngsters found the event attractive and took part in the same. Apart from youngsters, the crowd itself showed a huge of amount of interest in answering the questions asked. Prizes were distributed to the participants who answered the questions correctly by Faculty Advisor of CASS; Prof.Mili Sarkar and Faculty Advisor of APS; Prof.Srijita Chakraborty. Total 50 students are participated in the program.

Quiz Competition

Novel Semiconductor Memory technologies for AI/ML Applications

Date and venue of Event: 5th February, 2023, 4pm-5pm, IEM Gurukul Campus

IEEE IEM CASS Student Branch Chapter in association with IEEE CAS Kolkata Section , IEI and IEEE WIE affinity group has organized a research talk on 5th February, 2024.In this event Mr. Shankha Mukherjee, PhD Research Scholar (IMEC, Belgium) has delivered a talk on "Novel Semiconductor Memory technologies for AI/ML Applications".Near about 40 students and 10 faculty members were present

Research talk on 5th February, 2024. In this event Mr. Shankha Mukherjee

OUTREACH Program

Date and venue of Event : 21st of February, 2024, Institute of Little Stars, Mahanad Nagarpara, Hoogley

IEM IEEE CAS Student Branch Chapter in association with IEM IEEE WIE affinity group, IEM IEEE APS

Student Branch Chapter and IEM IEEE MTTS Student Branch Chapter has organized an outreach program on 21st of February, 2024, Institute of Little Stars, Mahanad Nagarpara, Hoogley. Here student Branch chapters has donated two computers to the school children. They have also distributed chocolates and biscuits among them. Total 60 studenta are participated in the program.

Name of Speaker/Delegates present with affiliation:
1. Prof (Dr). Rintu Kumar Gayen, Professor of ECE, IEM.
2. Prof (Dr) Rajib Ghose, Professor of ECE department, Institute of Engineering &

Outreach Program

Management.

IEEE FOUNDATION DAY

Date and venue of Event: 20th of February, 2024, IEM Gurukul Campus, Kolkata

The IEM IEEE WIE affinity group, IEM IEEE CAS Student Branch Chapter, IEEE Kolkata Section organized an enriching lecture in commemoration of IEEE Foundation Day. Renowned Prof. Sujit Kumar Biswas delivered a captivating discourse, exploring pertinent subjects within the field of electrical engineering and its practical applications. The event, starting at 4:15 pm, witnessed active participation from both students and faculty members, who enthusiastically shared their insights and perspectives. Prof. Biswas' presentation served as a valuable platform for the exchange of knowledge and networking opportunities, fostering a collaborative environment for budding engineers. In essence, the event aptly reflected the essence of IEEE Foundation Day, advocating for the continual advancement of technology and innovation within the academic sphere. Total 80 participants are participated in the program.

Name of Speaker/Delegates present with affiliation:
1. Prof (Dr). Sujit Kumar Biswas, Former Professor of EE, Jadavpur University, Past Chairman IEEE, Kolkata Section.
2. Prof (Dr) Mili Sarkar, Associate Professor of ECE department, Institute of Engineering & Management. Chair IEM IEEE CAS Student Branch Chapter.

3. Prof (Dr). Ratna Chakrabarty, Professor of ECE department, Institute of Engineering & Management, Branch Advisor WIE Affinity Group
4. Prof (Dr). Tanima Bhowmik, Associate Professor of CSE (AIML) department, Institute of Engineering & Management, Treasurer IEEE WIE Affinity Group.
5. Prof (Dr) Swati Choudhury, Professor of EE department, Institute of Engineering & Management.

IEEE Foundation Day Program

WIE Affinity Group

The 7th International Workshop on Networking Women in Distributed Computing and Networks 2024

Date and venue of Event: January 4, 2024, Chennai, India

The 7th International Workshop on Networking Women in Distributed Computing and Networks 2024 held in conjunction with 25th International Conference on Distributed Computing and Networking (ICDCN 2024) mainly focused on recent researches in networking and distributed computing fields which have given immense rise to the emerging areas like Internet of Things, mobile & cloud computing, Big Data analytics, machine learning, 5G etc. The workshop was held to encourage specially the women researches who are enthusiastically working in these areas and consider their research works which have escalated the change in the computing world. The program consisted of invited talk by Dr. Eirini Eleni Tsiropoulou, Associate Professor, Department of Electrical and Computer Engineering, University of New Mexico, United States, followed by few selected paper presentations. One best paper award was offered. The program was partially sponsored by IEEE Women in Engineering (WiE). This workshop was started in 2018 and the earlier workshops were held in IIT(BHU), IISc Bangalore, Jadavpur University, Kolkata, Nara, Japan and IIIT Delhi. In 2021 and 2022, due to pandemic the workshop was held in virtual mode followed by physical mode in IIT Kharagpur in 2023. Total 40 participants are participated in the program.

Name of Speaker/Delegates present with affiliation:

Dr. Eirini Eleni Tsiropoulou, Associate Professor, Department of Electrical and Computer Engineering, University of New Mexico, United States

Dr. Punyasha Chatterjee, Associate Professor, Jadavpur University, India & IEEE WIE AG Kolkata Section (Ex-

Dr. Punyasha Chatterjee with a participant,Invited Talk at NWDCN 2024

Com member)

TRIVIA QUIZ

Date and venue of Event: January 24, 2024, International Book Fair, Kolkata

IEEE IEM Women in Engineering (WIE) student affinity group organized a Trivia Quiz event on the 24th of January, 2024 from 4:30 PM to 5:30 PM at the Kolkata International Book Fair. More than 100 participants took part in the Trivia Quiz which consisted of questions primarily on GK and engineering. This event gave the participants a chance to showcase their talent and show-off their knowledge in various fields. There were exciting goodies for each participant who was able to answer correctly. Thus, the Trivia Quiz was a grand success with enthusiastic participation from all the attendees, participants and WIE society members! More than 100 participants are participated in the program.

Name of Speaker/Delegates present with affiliation:

1. Prof. Sheli Sinha Chaudhuri, Professor ETCE, Jadavpur University, Chair IEEE WIE
2. Dr. Ratna Chakrabarty, Professor, ECE department, Institute of Engineering & Management, Branch Advisor WIE AG (Ex-Com member)
3. Dr. Swati Chowdhuri, Professor, EEE department, Institute of Engineering & Management, Ex-Com member Member WIE AG

V tools Links: https://events.vtools.ieee.org/m/403124

IEEE YOUNG PROFESSIONALS KOLKATA SECTION

1. Technical Lecture Programme

Date and venue of Event: 5th January, 2024 at ADMH, Dept. of CSE, Jadavpur University

Department of Computer Science & Engineering, Jadavpur University in technical association with IEEE Young professionals, Kolkata Section organized a Technical Lecture Programme at ADMH, Dept. of CSE, Jadavpur University on 5th January, 2024. The title of the talk was "Rethinking Model interpretability in binary medical image classification problems". The talk was delivered by Mr. Sourya Sengupta, PhD student of Department of Electrical and Computer Engineering, University of Illinois, Urbana-Champaign. Around 32 participants including 3 IEEE members joined the event.Participants are mostly students, research scholars and faculties of different institutes. The talk was interactive and participants enjoyed the session very much. Total 32 participants are participated in the program.

Part of the participants of the Technical Lecture Programme of Mr. Sourya Sengupta

Faculty Development Program on Cuttting Edge: Horizons of Data and Analytics

Date and venue of Event: 22nd to 31st January, 2024 at Meghnad Saha Institute of Technology (MSIT), Kolkata

Department of CSE, MSIT Kolkata in technical collaboration with IEEE Young Professionals, Kolkata Section organized a Faculty Development Program at Meghnad Saha Institute of Technology (MSIT), Kolkata from 22nd to 31st January, 2024. The topic of FDP was "Cuttting Edge: Horizons of Data and Analytics". Around 42 participants including 05 IEEE members joined the event. Participants are faculties of different institutes.

Name of Speaker/Delegates present with affiliation:

a) Prof. Swapan Bhattacharya, Dept. of CSE, Jadavpur University
b) Prof. Amlan Chakraborty, Director AKCSIT, Calcutta University

c) Prof. Asit Kumar Das, Professor, Dept. of CSE, IIEST.
d) Prof. Santi Prasad Maity, Dept. of IT, IIIEST, Kolkata
e) Dr. Kuntal Ghosh, ISI, Kolkata
f) Dr. Sudip Kumar Naskar, Associate Prof., Dept. of CSE, Jadavpur university
g) Dr. Dwaipayan Roy, Assistant Prof., Dept. of Computational & data Science, IISER
h) Mr. Sayantan Chakraborty, Operation Division IETA, Microsoft Certified Trainer.

Prof. Swapan Bhattacharyya delivering his lecture at the FDP

Technical Lecture Programme

Date and venue of Event: 6th March, 2024 at Seminar Hall-1 Cooch Behar Government Engineering College Department of Computer Science & Engineering, Cooch Behar government Engineering College and IEEE Young professionals, Kolkata Section jointly organized a Technical Lecture Programme at Seminar Hall-1 of Cooch Behar Government Engineering College on 7th March, 2024. The title of the talk was "Deep Learning Optimizers: Gradient Descent and its Recent Advances". The talk was delivered by Dr. Swalpa Kumar Roy, Assistant Professor, Department of Computer Science & Engineering, Alipurduar Government Engineering and Management College. Around 55 participants including 4 IEEE members joined the event. Participants are mostly students and faculties of Cooch Behar College and Cooch Behar Government Engineering College. The talk addresses the study of several versions of gradient descent and its variants, which are already in the PyTorch optimizer, including SGD, Adagrad, adadelta, RMSprop, Adam in deep lraning environment.

Dr. Swalpa Kumar Roy addressing at the Technical Lecture Program at CGEC