

IEEE BHUBANESWAR SUB-SECTION NEWSLETTER

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Editor-In-Chief: Prof. (Dr) Renu Sharma

IEEE MISSION & VISION

IEEE is the world's largest technical professional organization dedicated to advancing technology for the benefit of humanity. Below you can find IEEE's mission and vision statements.

IEEE MISSION & VISION

IEEE will be essential to the global technical community and to technical professionals everywhere, and be universally recognized for the contributions of technology and of technical professionals in improving global conditions.

MISSION STATEMENT

IEEE's core purpose is to foster technological innovation and excellence for the benefit of humanity.

ABOUT IEEE

IEEE and its members inspire a global community to innovate for a better tomorrow through highly cited publications, conferences, technology standards, and professional and educational activities. IEEE is the trusted voice for engineering, computing, and technology information around the globe.

MEMBERSHIP BENEFITS

IEEE membership offers access to technical innovation, cutting edge-information, networking opportunities, and exclusive member benefits. Members support IEEE's mission to advance technology for humanity and the profession, while memberships build a platform to introduce careers in technology to students around the world.



**Dr. S R Samantaray, Chair,
IEEE Bhubaneswar subsection**

I am extremely happy to know about the 7th edition of the newsletter which is the message board of IEEE Bhubaneswar subsection conveying information on various technical activities, events, and other related matters. At the outset, I congratulate all of you for your tireless effort to raise the height of the subsection by organizing various events and activities

With your extended support and involvement, the subsection has grown with various society chapters, affinity groups and student chapters etc. This is noteworthy to mention that the newly formed Women-In-Engineering (WIE) chapter is doing extremely well in organizing event and dissemination. I appreciate the efforts made by or society chapters in conducting activities in cutting edge technologies and social outreach. This is to mention that our subsection is gearing up activities in all fronts including membership drive, society activities, WIE and student activities which are essential components elevating the outreach. The subsection has further planned to enhance the membership through special membership drive for full as well as student membership across academia and industry.

I congratulate the members who received recognitions nationally and internationally and, made the subsection visible to the IEEE community.

Again, I thank you very much for your support and tireless efforts for the growth of the subsection.

Wishing you all the best.

S R Samantaray



Dr. Hare Krushna Ratha,
Vice-Chair
IEEE Bhubaneswar subsection

At the outset I would like to Congratulate all the newly elected office bearers for the year 2023. Last six months had been quite eventful for IEEE Bhubaneswar subsection and all members and office bearers have contributed wholeheartedly towards organizing various events including a substantial number of invited lectures.

Under the aegis of IEEE Bhubaneswar Subsection, the IEEE Communication & Computer Joint Societies Chapter has been industrious in organizing various events including a good number of Webinars, Guest Lectures on both physical as well as virtual platform, Video Lectures by eminent speakers for researchers and students in order to felicitate their research activities etc. We have been constantly endeavoring towards inclusion of more and more student members and even aiming for formation of a Students Chapter.

The year ahead is again going to be both engrossing and exciting. As morning shows the day, year 2023 has begun with an exquisite note marked by the successful conduct of 3rd IEEE International Conference on Range Technology (ICORT-2023). Delegates from 08 nations participated in the conference held during 23-25 February 2023 in a hybrid mode. 110 high quality technical papers were presented in five parallel sessions during the conference along with keynote speech, tutorials and invited talks by eminent speakers from India and abroad. The industrial exhibition held during the conference saw participation from nearly 40 exhibitors including industries of global repute and renowned educational institutions. The grand success of the 3rd edition of ICORT has reinforced the ongoing collaboration among IEEE Kolkata Section, IEEE Bhubaneswar subsection, IEEE Communication and Computer Joint Societies Chapter, Chandipur and ITR Chandipur. Maintaining the persistent effort in organizing webinars and lecture series, the first webinar of the year has been conducted on the topic "Quantum Communication". Many more lectures and webinars have already been planned and scheduled in the coming months.

Since inception in 2015, IEEE Bhubaneswar subsection has been instrumental in fostering research in advanced technology in the entire geographical region of Odisha. Various events conducted by the subsection such as conferences, seminars, workshops, distinguished lecture programmes and student activities are reflected in the Newsletter published by the subsection. I am extremely glad to announce that we are going to release the Issue 7 volume-I of the Newsletter, December 2022. I congratulate the entire Newsletter team for their excellent effort in bringing out this issue of the Newsletter.

I wish all the best to all members and an excellent year 2023 ahead.

H.K Ratha

BHUBANESWAR SUBSECTION



Dr. Debi Prosad Dogra,
Secretary
IEEE Bhubaneswar subsection

At the onset, I thank the members for selecting me as the Secretary of the subsection for the year 2023. I wish the members of the subsection for successfully conducting various technical activities during the last two quarters. IEEE Bhubaneswar subsection is now the most active Subsections of the region.

I welcome all new members under the Subsection. I congratulate all members who were elevated to the senior grades. I also congratulate all members who received various awards. The year 2022 was an engaging year with several important activities organized and supported by the subsection. The subsection currently hosts five chapters. The subsection has technically co-sponsored various conferences organized by institutes of the region. One of the most important events of the year 2022 was IEEE India Council flagship conference INDISCON'22. I congratulate all the members for making it a grand success. In the year 2023, we aim to grow as a whole and I am confident, with your wholehearted support, we shall elevate to a full section by the end of 2023. We shall ensure that the subsection achieves its targets in an all-inclusive manner with the highest level of professionalism, transparency, and integrity. Thanking you all for your efforts in making the subsection a truly active community.

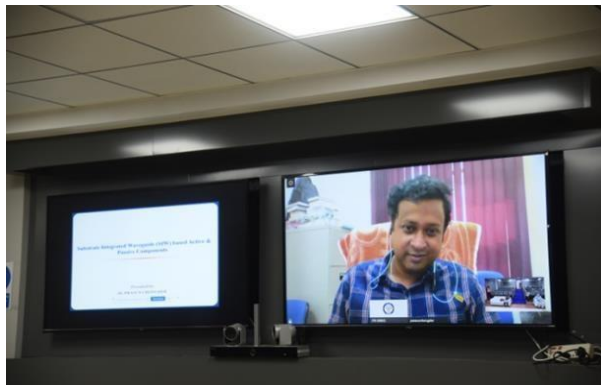
Debi Prosad Dogra

ACTIVITIES

Event – 01

Date – 6th JAN 2022

Events-11th Webinar- “GNSS RTK with small Module: Application Potential in Test Ranges”



The 11th webinar of IEEE CH-10943 R10 was organised by IEEE Communications and Computer Joint Societies Chapter, Chandipur on 6th Jan 2022. The technical talk was delivered by Professor Dr Anindya Bose on GNSS RTK with small Module: Application Potential in Test range. Prof. Bose emphasized the importance of GNSS RTK application in defence scenario. Director ITR and Chair of the joint Societies Chapter, Chandipur was also present on the occasion.

Event – 02

Date – 2nd JAN 2022

Arduino Workshop and Hands-on project demonstration



An Arduino workshop and hands-on project demonstration event was organized by IEEE Student Branch, ITER, hosted at SIKSHA 'O' ANUSANDHAN DEEMED TO BE UNIVERSITY, BHUBANESWAR and it was a great opportunity for individuals to learn about the popular open-source electronics platform and gain practical experience through hands-on projects. Attendees had the chance to work with an experienced instructor and receive an introduction to the basics of Arduino programming and electronics. Students then move on to building and programming simple projects, learning about sensors, actuators, and other components. This event provides an exciting and interactive way to explore the world of electronics, gain new skills and knowledge, and had fun creating and building projects with like-minded individuals. Whether you were a beginner or had prior experience, workshop was the fantastic way to expand understanding of



Arduino Week 2022

It was organized by IEEE Student Branch, ITER, hosted at SIKSHA 'O' ANUSANDHAN DEEMED TO BE UNIVERSITY, BHUBANESWAR. Arduino Week is a celebration of the open-source electronics platform and the community that has formed around it. This event is held annually and provides a platform for makers, hobbyists, and professionals to come together and share their projects and experiences with the Arduino platform. The event continues for week and engaged 45 students across the discipline total 9 groups each group having 5 students. Participants can attend workshops, demonstrations, and talks on a variety of topics such as IoT, robotics, and DIY electronics. Each group developed individual project. Arduino Week also provides opportunities for attendees to network with others in the community, exchange ideas, and learn new skills. Whether you're a seasoned maker or just getting started, Arduino Week is a great way to engage with the vibrant and growing community around the Arduino platform.



Events – 12th Webinar : Substrate Integrated Waveguide

Arduino Week is a celebration of the open-source electronics platform and the community that has formed around it. This event is held annually and provides a platform for makers, hobbyists, and professionals to come together and share their projects and experiences with the Arduino platform. The event continues for week and engaged 45 students across the discipline total 9 groups each group having 5 students. Participants can attend workshops, demonstrations, and talks on a variety of topics such as IoT, robotics, and DIY electronics. Each group developed individual project. Arduino Week also provides opportunities for attendees to network with others in the community, exchange ideas, and learn new skills. Whether you're a seasoned maker or just getting started, Arduino Week is a great way to engage with the vibrant and growing community around the Arduino platform.



Code Mania

It was organized by IEEE Student Branch, ITER, hosted at SIKSHA 'O' ANUSANDHAN DEEMED TO BE UNIVERSITY, BHUBANESWAR. The Code Mania event was an inspiring and educational event organised by IEEE Student Branch and SOA Fablab that provided a great platform for coders to develop their skills, share their knowledge and connect with others in the tech community. The Code Mania event was a thrilling experience for all the coders and technology enthusiasts who attended. It was a full-day event filled with a variety of activities, ranging from coding challenges and workshops to keynote speeches. From Industry Mr. Aditya Mohan Pandey from AWS deliver the tech speech. Dr. Sayantan Sinha ,trainer at IBM deliver the speech in AI-ML. The coders were given the opportunity to showcase their skills in a hackathon competition where they could demonstrate their ability to solve real-world problems using technology. The workshops were led by experienced instructors who provided in-depth insights into the latest technologies and trends in the coding world. Attendees also had the opportunity to network with other coders, exchange ideas and form new collaborations.



Event – 06
Date – 1st May 2022

Start-Up Workshop

The Startup Workshop was a bustling gathering of entrepreneurs and business owners organized by IEEE Student Branch and SOA Fablab, hosted at SIKSHA 'O' ANUSANDHAN DEEMED TO BE UNIVERSITY, BHUBANESWAR.. Who deliver the content to learn about the latest trends and techniques in starting and scaling a successful business. The keynote speaker Mr. Sourabh Khandelwal, President SCOOM India was a seasoned entrepreneur who shared his experiences and insights on the challenges and opportunities in the startup world. SCOOM India is Odisha's biggest startup community. Around 350 students participated to grab the opportunity to network with like-minded individuals, exchange ideas and learn from experts in various fields such as Marketing, Finance and Technology. The workshop also featured interactive sessions and hands-on activities where participants could put into practice what they had learned. The event was a valuable platform for anyone looking to start or grow their own business and a great opportunity to make new connections.



Event – 07

Date – 17st May 2022

World Telecommunication and Information Society Day & 13th Webinar on Adaptive Channel Estimation for 5G Wireless Communication

IEEE Communications and Computer Joint Societies Chapter, Chandipur and in association with Integrated Test range Chandipur organised 17th webinar of IEEE CH-10943 R10 on 17th May 2022 at PMA Hall. The Chapter also celebrated World Telecommunication and Information Society Day. The event was inaugurated by Director, ITR Chandipur, DRDO and Chair of Joint Chapter, Shri K H Ratha and a technical talk was delivered by Professor Dr Harish Kumar Sahoo from Veer Surendra Sai University on Adaptive Channel Estimation for 5G Wireless Communications. Prof Sahoo is a member of IEEE Future Network Group and he is one of the IEEE contributors for implementation of 5G wireless networks specifically in Massive MIMO. His research interest includes adaptive signal processing, MIMO and Massive MIMO Wireless Systems, Channel Estimation and Equalization.

In his presentation, Prof Sahoo emphasized the importance of Massive multiple-input multiple-output (MIMO) for implementing 5G. He also pointed out that computationally efficient sparse adaptive estimation models are quite effective for channel estimation looking into multipath and fading nature of wireless medium. IEEE members and ITR employees were present on the occasion.



Event – 08

Date – 24st May 2022

14th Webinar on GaN MMIC for futuristic Defence Application



The 14th webinar of IEEE CH-10943 webinar series was organised by IEEE Communications and Computer Joint Societies Chapter, Chandipur on 24th May 2022. Dr M Mishra Sc 'G' from SSPL, Chandigarh delivered a technical talk on GaN MMIC for futuristic Defence Application. The talk highlighted the merits of GaN MMIC technology for high bandwidth millimeter-wave power applications and for microwave robust LNA receiver applications. The Webinar session was very informative and interactive and were attended by all the IEEE Members.

Digital Display Project

It was organized by IEEE Student Branch, ITER, hosted at SIKSHA 'O' ANUSANDHAN DEEMED TO BE UNIVERSITY, BHUBANESWAR. The project showcasing by the student of SOA FAB LAB and of IEEE Student branch, ITER.



Events- 15th Webinar on Timeliness of Communication in 5G and Beyond: An Emphasis on Age of Information Minimization

IEEE Communications and Computer Joint Societies Chapter, Chandipu and ITR, Chandipur jointly organised 15th webinar of the of IEEE CH 10943 R10 webinar series on 28th Jun 2022. The technical talk was delivered by Dr Siddharth Deshmukh from NIT Rourkela on Timeliness of Communication in 5G and Beyond: An Emphasis on Age of Information Minimization. In his presentation, he explained that in 5G communication and beyond, there is huge emphasis on addressing latency in wireless networks as it adversely impacts the requirements of real time applications. The Webinar session was very informative and interactive and were attended by all IEEE members and scientist of ITR, Chandipur.



Internet of Things & Data Analysis

The Internet of Things and Data Analysis was two days workshop organised by IEEE Student Branch, ITER and SOA Fablab at ITER, Bansuriguru Auditorium, Siksha 'o' Anusandhan Deemed to be University, Bhubaneswar. Around 750 registrations were recorded. The "Internet of Things and Data Analysis" event was a highly anticipated gathering of technology experts and professionals from diverse industries. Mr. Siddharth Bhat, CEO Karkhana, Edu Tech and Dr. Anurag Sympathy, Director & Co-founder PKare, Health Sector Company, were the keynote speakers were leaders in their respective fields and provided insights into the latest advancements in IoT and data analysis technologies. The attendees were treated to interactive sessions, hands-on demonstrations, and case studies showcasing the impact of IoT and data analysis in various industries such as healthcare, manufacturing, and finance. The event also provided an opportunity for attendees to network and form new collaborations, with a focus on sharing experiences and exploring new solutions for IoT and data analysis. The Internet of Things and Data Analysis event was an excellent platform for attendees to gain a deeper understanding of these cutting-edge technologies and their potential to drive innovation and growth.



BHUBANESWAR SUBSECTION Event – 12 Date – 10th July 2022

Google I/O Extended

It was organized by IEEE Student Branch, ITER, hosted at SIKSHA 'O' ANUSANDHAN DEEMED TO BE UNIVERSITY, BHUBANESWAR. This is an event that takes place around the world, in multiple cities and countries, in parallel to Google I/O - the company's annual developer conference. The main purpose of Google I/O Extended is to bring the Google I/O experience to a wider audience and to provide local developers with an opportunity to network, learn, and get inspired. The events are organized by local developers, for local developers, and typically include live streams of the keynote presentations from Google I/O, as well as local tech talks, coding workshops, and hackathons. Google I/O Extended events offer a great opportunity for developers to stay up-to-date with the latest technology trends, get hands-on experience with new tools and platforms, and connect with other like-minded individuals in the tech community.



R10 IEEE CS GAC and India Area Chapter Chairs Meeting (in-person)



Our executive body member Dr. Pradipta Roy attended R10 Computer Societies meet at Kochi where he had discussed the Chapter activities and attended the meeting with objective to identify the current challenges faced by the IEEE CS particularly in Region 10 and develop strategic plans to bring the R10 CS Chapters to next level.

16th Webinar, Science and Spirituality: Cognition and Conditionings-A scientific perspective

IEEE Communications & Computer Joint Societies Chapter and Bhubaneswar Subsection in association with ITR Chandipur organized 16th Seminar/Webinar on Science and Spirituality: Cognition and Conditionings- A Scientific Perspective' by Sri Nitai Das on 30th Aug 2022 at 1130 Hrs at PMA Hall. Shri Nitai Das is a spiritual seeker, motivational speaker, and writer. He holds a B.Tech and M. Tech Degree in Electrical Engineering from IIT Kharagpur. While at IIT, he organized and coordinated many workshops for undergraduates to develop state-of-art skills and deep human values. As a lifestyle coach, he also organised ISCON's community outreach program on varied topics in housing societies, corporate houses, and many reputed schools, Engineering Collages like NIT, and IIT. His seminars have led many to live a life based on ethics and morals for over a decade. His Yoga workshops and retreat are much awaited by many and provide a platform to learn work-life balance and experience the joy of stress-free living. He has written many books which provide immense priceless and practical wisdom for satisfying life filled with serenity.

Shri Das explained the relationship between Science and Spirituality at length and addressed the large gathering on various aspect of life. The Webinar session was very informative and interactive and were attended by all the IEEE Members, scientist and technical members of ITR, Chandipur.

Spirituality
is a fight for freedom
to voluntarily surrender
one's independence;
free the mind from
selfish exploitation
by
experiencing dependence
on God!

SRI NITAI DAS

Spirituality gives us Vision and Values
Science gives us Tools and Technology

IEEE COMMUNICATIONS AND COMPUTER JOINT SOCIETIES CHAPTER, CHANDIPUR

SEMINAR

SCIENCE AND SPIRITUALITY
Cognition and Conditionings - A Scientific Perspective

PMA HALL
ITR
CHANDIPUR

30th Aug 2022
1130 - 1330
hrs

Sri Nitai Das
Monk, Author, Life Style Coach, ISKCON
B. Tech, M. Tech, E & ECE, IIT Kharagpur

Science Complement Spirituality and Spirituality Complement Science

IEEE
COMPUTER
SOCIETY

IEEE
ComSoc
Joint Communications Section

IEEE

Talk on “EnergyPedia: Technical Discussion on Energy Conservation”

The EEE department of the Institute in collaboration with the Petroleum Conservation Research Association (PCRA) and IEEE students’ chapter conducted a talk on “EnergyPedia: Technical Discussion on Energy Conservation”. PCRA is a non-profit organization under the aegis of the Ministry of Petroleum & Natural Gas, Government of India. PCRA organizes multi-media campaigns for creating mass awareness for the conservation of petroleum products, Fuel oil utilization studies, energy audits, development of oil consumption norms, driver training programs, workshops/ exhibitions, consumer meets, education films/TV spots, hoarding/ electronic display, etc.

The speaker for the program was Mr.Sribatsa Panda, EX DGM, Business Excellence, SAIL, Bokaro Steel Plant, presently working as an External Faculty (Industry) of PCRA. Mr. Panda is also a consultant, trainer and an auditor of various versions of ISO.

The speaker in his talk discussed about the adverse effects of sustained and unequivocal rise in global temperatures and was outstanding in his effort in imparting awareness regarding the responsibility of each individual towards practicing the energy conservation methods at different stages to combat the climate change effects. The impact on society, environment and the future of socio political relationship of the countries from energy perspective is very well captured in his talk. The session was interactive with intermediate quiz for the audience.

Finally, the session was concluded with the vote of thanks by Dr. Rabi Narayan Mishra.



Invited talk on "Role of IEEE in Enhancing the Engineering Career" Online

On the eve of Engineers Day and Vishwakarma jayanti, IEEE Women in Engineering affinity group "Kolkata Section, Women In Engineering Affinity Group – Bhubaneswar" organized a talk on ""Role of IEEE in Enhancing the Engineering Career"". Dr. Sudeshna Choudhury, Chair of Women in Engineering (WIE), IEEE, Kolkata Section and Dr. Mousiki, Associate Professor, Department of Electronics and Communication Engineering, Heritage Institute of Technology Kolkata were the speakers of the talk. Welcome address is given by Dr. Tripti Swarnkar, Chair WIE Committee IEEE Bhubaneswar Subsection. Dr. Mousiki nicely explained the wide benefits of IEEE such as IEEE spectrum, IEEE learning network, IEEE data ports, IEEE sights etc. Dr. Sudeshna covered the benefits of WIE.

She encouraged women members to become a part of IEEE. She focused on WIE-Industry partnership.



Event – 17

Date – 04th & 15th October 2022

Invited Talk on IEEE Day and National Innovation Day

Event – 18

Date – 11th to 15th October 2022

FDP on Embedded Systems, Smart Sensors for IoT Applications

Current trends demand for efficient and secured electronic systems for commercial and industrial applications. Sensors and Embedded Systems work together to provide one of the most important aspects of the Internet of Things (IoT) (Detecting changes in an object (device or asset) and/or the environment, allowing for capture of relevant data for real-time and/or post-processing). Internet of Things (IoT) is one of the major technologies transcending industry, academia and government supporting the demands. In this context, IoT became an essential component to make of our daily routine smart and secure. Considering the current thrust on Information Communication Technologies and Electronic Sector Design and Manufacturing by Government of India, and in view of the Internet of Things Policy of India, there is an immediate requirement for building capacity and expertise around Internet of Things.

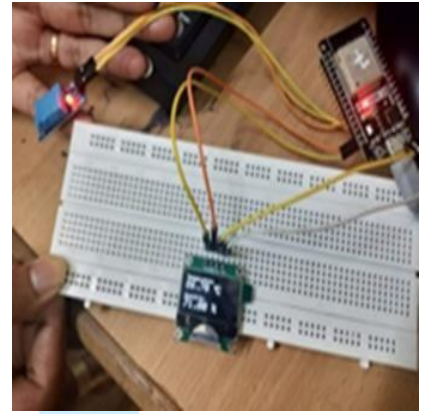
This FDP explores a range of related topics, encouraging research debates on embedded systems, intelligent sensors, IoT, Web of Things (WoT), and Internet of Everything (IoE).

This FDP aims to bring together researchers, practitioners, academicians, government officials, and other industry professionals to provide a forum to discuss technical, human, societal, and policy issues about smart sensors/actuators and IoT applications.

Course Contents: Embedded Systems, interfacing of smart sensors, IoT Applications and challenges, IoT Case studies. Complete Hands-on was provided.

Resource Persons:

1. Er. Sushant Kumar Pattnaik, Department of ECE, Silicon Institute of Technology, Bhubaneswar
2. Er. Mukesh Singh, Robogenesis, Bhubaneswar



Event – 19

Date – 12th October 2022

IEEE Day Celebration and 17th Webinar: AI for Cyber Security

IEEE Day 2022 and Webinar 17 was organised by IEEE Communications and Computer Joint Societies Chapter-CH10943 in collaboration with Integrated Test Range, Chandipur on 12th October 2022 at Range Conference Hall. IEEE members came together to part their technical knowledge and creative ideas, put together their efforts to mould the celebration as a remarkable one, under the supervision of Honourable Director and Chair (IEEE Communications and Computer Joint Societies Chapter-CH10943) Shri H K Ratha. On the cards of the IEEE Day celebration, we had one technical talk by our distinguished guests, Dr. Padmalochan Bera of IIT Bhubaneswar. In total, we had 105 participant involvements for the whole event. People from nearby engineering colleges also showed up for the celebration with great zeal and enthusiasm.

The event proceeded with an opening speech by Shri Goutam Sadhukhan, Vice Chair of our Joint society chapter. Our honourable guests Dr. D P Dogra of IIT Bhubaneswar was also present on the occasion. Honourable Director of ITR addressed the gathering. Our Invited honourable guests and speaker Dr. Padmalochan Bera, Assistant Professor of IIT Bhubaneswar. delivered a technical talk on AI in Cyber Security and in his talk, he highlighted about known and evolving cyber security threats in networks considering multiple applications. He also covered, how different AI techniques such as reinforcement learning, attention models and game theory can be used for proactive and reactive detection and prevention of such cyber threats. Shri Rajesh Kumar, secretary of IEEE Communications & Computer Joint Societies Chapter organised the function and offered in the end. The IEEE members interaction was also held during the community lunch.



Event – 20

Date – 15 – 16 October 2022

IEEE Kolkata Section Industrial Electronics Society Chapter – Bhubaneswar in collaboration with IEEE Bhubaneswar Subsection is going to organize first version of its flagship conference 2022 1st IEEE International Conference on Industrial Electronics: Developments & Applications (ICIDeA) during 15 – 16 October 2022 fully on Virtual Mode. There are seven different sessions designed to accommodate the papers for presentation along with five different Keynote Lecture Sessions.

Event – 21

Date – 04 – 05 November 2022

IEEE RMC-2022 was organized on 4-5th Nov 2022 for Empowering the humanity through diversity and equality for any Individual who is looking for career awareness, career comeback and career sustainability. This is a very wonderful conference organized in KIIT University, Odisha



Event – 22

Date – 11 – 12 November 2022

ODICON 2022

Topics like Renewable Energy and Artificial Intelligence were discussed at the two-day first Odisha International Conference on Electrical Power Engineering, Communication and Computing Technology (ODICON-2022) which was hosted by Siksha 'O' Anusandhan (SOA).

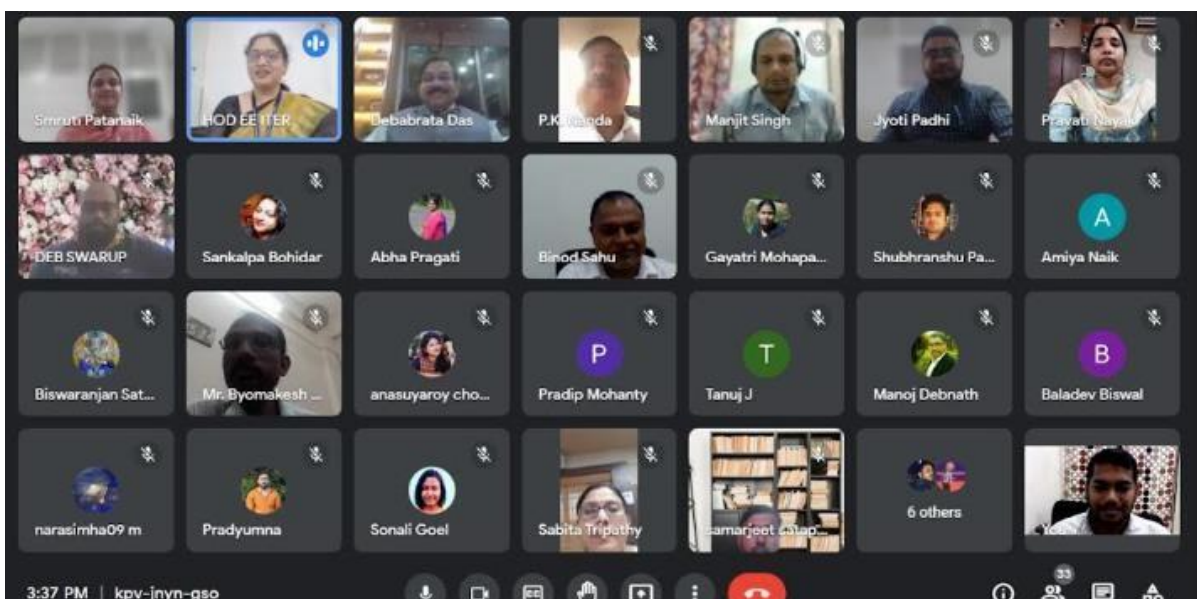
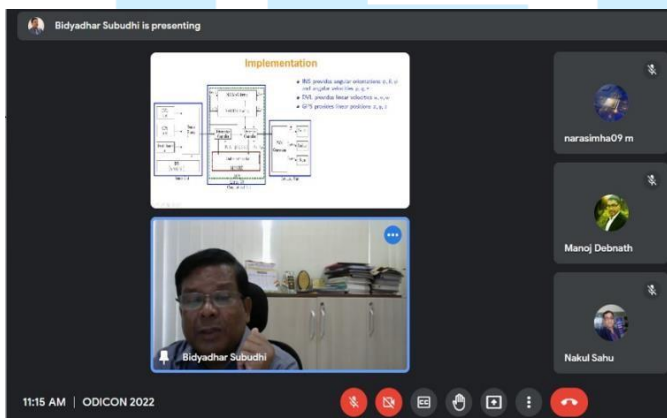
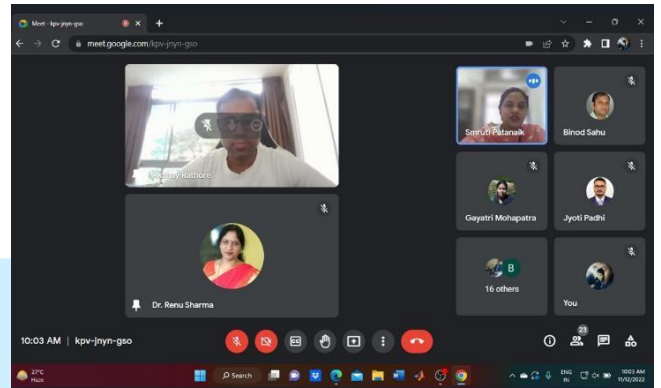
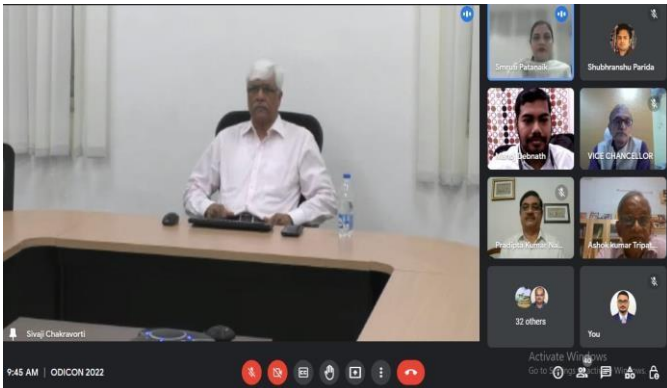
The virtual conference, which concluded on Saturday, was organised by the Department of Electrical Engineering of the Institute of Technical Education and Research (ITER), SOA's Faculty of Engineering and Technology.

The objective of the conference was to bring together researchers, scientists, engineers and scholar students on the same platform for sharing and exchanging their experiences, discuss new ideas and research results about all aspects of Engineering, Science and Technology especially relevant to sustainable and clean energy, Prof. Renu Sharma, Head of the department of Electrical Engineering, ITER and General Chair, ODICON-2022, said.

The inaugural session had Dr. Sivaji Chakravorti, FNAE, FNASc, AvHumboldt Fellow Vice-President, Indian National Academy of Engineering from Jadavpur University, Kolkata as chief guest while Prof. A. K. Tripathy Former Director CPRI, Bangalore and Prof. S.R. Samantaray Chair, IEEE Bhubaneswar Subsection were the special guest. Prof. A.K. Mahapatra, Vice-Chancellor, SOA, were the speakers.

Prof. Debabrata Das Director, IIIT Bangalore was the chief guest at the closing session. Prof. Pikachu, Dean, ITER, Prof. P.K. Nanda, Pro-VC, SOA and Dr. Manoj Kumar Debnath, Organizing Chair, ODICON-2021 also addressed the conference.

The keynote speakers at the conference included Dr. Akshay Kumar Rathore NUS, Singapore and Dr. Bidyadhar Subudhi Dean, Research & Development, IIT, Goa.



13th NWET, 2022

The Department of Electrical & Electronics Engineering at Silicon Institute of Technology Bhubaneswar organized the 13th National Workshop on Emerging Technologies (NWET-2022) in Electrical Power Engineering with focus on “Grid Modernisation and Digitalisation... A step forward to Green Technology” from 24th - 26th November, 2022 in collaboration with IEEE PES & IES Bhubaneswar Chapter and Spark Group.....Ignite to share.

Various topics, challenges & opportunities in Power industries were discussed by several eminent speakers from Industry and academics. I3 Program (Industry, Institute Interactive Program) was an added attraction of NWET-2022.

Prof. A. K. Tripathy, Former DG, CPRI was the Chief guest whereas Prof. (Dr.) B. D. Subudhi, Dean (R&D), IIT Goa and Er. P. K. Pattnaik, GM, OPTCL, were the guest of honour of the event.

Renowned Speakers like Er. K. K. Murty (Former Chief Engineer & HoD (Testing & comm.) MPPTCL Jabalpur), Dr. Chandrashekhar N. Bhende (Professor, IIT Bhubaneswar), Dr. Aradhana Ray, Laxmi Associates, Gujarat had enlightened the participants with the exposure in the practical field. Experts such as Dr. Y P Chawla (Sydney, Australia), Er. Ramesh D Suryavanshi (Dubai, UAE) and Sri Shantanu Kumar (Perth, Australia) from abroad were came down to SIT Bhubaneswar to share their knowledge.

The workshop was financially supported by several sponsors like Yash High Voltage, EASUN MR, CTR, etc. Around 150 participants from academia, Research organisation and industries had participated in the workshop.



13th NWET, 2022 and 2nd All India Power Engineers' Meet 2022

Workshop Summary

On 24th November 2022, NWET is organized with the help of our sponsors and the associated organization, which provided a forum for the industry and academia to discuss & share knowledge on Emerging Technologies & Practices. NWET 2022 inculcated many new ideas towards Grid Modernisation, Digitalisation and green technologies. The various topic on research and industry focus areas were discussed viz, distributed control of microgrid, renewable energy eco system, demand side management, cooperative control of photovoltaic systems, resilient power system to name a few.

Sponsorship

A very special thanks to our sponsors PRDC, IEEE power and energy & Industrial Electronics society, OPTCL, Spark Group, Yash High Voltage, CEE DEE vacuum equipment, CTR, Easun MR, PRSS, SEL, Technical associate, Zenion, Sonel India Pvt. Ltd.. We would like to sincerely thank you to our sponsors for having such a caring and giving heart because without their support for this event it would not have been possible. With your donations, we were able to provide three days of knowledge sharing session with most eminent speakers praising the arrangement.

Events

The workshop started with a lot of energy from the participants. The dignitaries on the dais enlightened the ambience with a great start of lighting the lamp for the event. Prof. (Dr.) Jaideep Talukdar, Principal, Silicon Institute of Technology, Bhubaneswar started the event by his enthusiastic way with welcoming all the guests and delegates to the workshop. He iterated enormous achievements by the student fraternity of Silicon. Dr. Talukdar also shed some light on the present academic structure, the status of SIT, its autonomy and NBA accreditation, to name a few.

Prof. A. K. Tripathy, Former DG, CPRI followed the event opening remarks of the event as the chief guest and enlightened the participants about the growth of power industry in last century. He started with shedding some light on the upcoming disruptive technologies coming to the power sector.

Mr. P. K. Pattnaik, GM, OPTCL, held the podium to provide the idea about the workshop and how each element of the workshop can lead toward the refinement of power system operations. He also introduced the concept of spark engineers congress which has to follow NWET for the first time.

Prof. (Dr.) B. D. Subudhi, Dean (R&D), IIT Goa shared his thoughts on industry interface and the need of the day to develop new era in power sector as the guest of honour for the event.

The inauguration session ended with a vote of thanks by our convenor, Dr. Ramaprasad Panda. He emphasized on the availability of the JOB in the power sector. Dr. Panda also invited all the delegates to be the part of IEEE to have a lot of exposure in research.

Technical session started with the high note on “A multi-agent distributed control of microgrid” by Dr. B. D. Subudhi. He gave an impressive introduction on control of microgrid in a distributed control architecture.

Prof. A. K. Tripathy shared his experience with the delegate in the next talk on “The emerging renewable energy eco system and the opportunity.” He provided deep inside into the renewable energy integration to the present grid and its effect in the present power sector.

The delegates parted ways for the day to visit around the city of Bhubaneswar with some historical places.

All delegates welcomed the next day with a new enthusiasm. Er. K. K. Murty, Former Chief Engineer & HoD (Testing & comm.) MPPTCL Jabalpur started the day with his charismatic talk on “Brief introduction to integrity of Earthing system”. He discussed the intricacies of earthing system in switchyard design.

Er. Jayant Sinha, Senior Principal Consultant, Capgemini, delivered his extensive lecture on “Demand Response Management”, explained about the benefits of demand response management and different effective techniques.

In the next talk, Dr. Chandrashekhar N. Bhende, Professor, IIT Bhubaneswar, enlightened the participants on the topic of “Cooperative control of photovoltaic systems”. He proposed the control scheme for effectual control of multiple interconnected system.

After that, a technical presentation presented by Power Transformer Sales & Services Pvt LTD, (Sponsor), regarding different causes for failure of power transformer and its condition monitoring. With this, the first session of day 2 was ended with lunch break.

After the break, Dr. Sudipta Debnath, Professor, Jadavpur University, started the second session with a warm talk on “Microgrid - A Paradigm Shift in Grid Modernization”. She discussed the basic operation of microgrid and presented her innovative research on microgrid control.

Next, ER. P K Pattanaik came to stage with an energetic momentum. His topic was “Technology... Then... Now and Next”. He placed his futuristic thought about the technological development in front of the participants and motivated towards the modern changes.

Day 2 was ended with a technical presentation by our sponsor CTR followed by the evening tea.

All delegates and participants greeted on the 3rd day with a fresh eagerness. Er. S. Gopa Kumar, Managing Director, Cape Electric, started his talk on “LV electrical system Design considerations”. He guided to design low voltage system and selectivity. He discussed about different important aspects which should be taken into consideration while designing the LV electrical system.

The next topic was “Challenges and solutions in integrating distributed energy resources into grid”, delivered by Er. Sethuraman Ganesan, Advisor, Energy Sector. He addressed the various challenges and respective solutions to integrate the distributed generation with high penetration into the power system.

Dr. Y P Chawla, Sr. Research Fellow at I2IT, Pune, spoke on “Conceptual Framework for Future Ready Resilient Power Infrastructure”. He shared the concept behind the resilient power infrastructure and its framework.

Er. Ramesh D Suryavanshi, POWER ASSIST FZE, UAE, SM IEEE, CIGRE, delivered his lecture on latest technologies and trend associated with HVDC, VSC and FACTS devices. He also discussed the fundamental concept of the same. His topic title was “HVDC, VSC, FACTS, Basic Fundamentals, and latest trends”.

Er. Pramod Rao, Senior Technical Advisor, Yash High Voltage, presented his knowledge on the topic “Emerging Trends in Transformer Bushing”. He discussed that how bushing is the most important factor related to transformer before breaking for lunch.

After the lunch, Sri Shantanu Kumar, Senior Asset Strategy Engineer, Perth, Australia, started with his energetic talk on “Performance Evaluation of a Process Protection scheme based on IEC61850-9-2”. He shared his research experiences on the protection scheme, particularly which are based on IEC61850-9-2.

Er. Shyam Ravindran, Managing Director, Sonel Instruments, presented his talk on “Innovative testing products with solutions”. He showed modern testing products which can overcome the existing problems.

Er. Mohan Kumar, Sr. Sales Manager, EASON-MR, showed innovative protection system with nitrogen for transformer fire issue. His topic was “Advanced Nitrogen Injection fire prevention system protect transformer from fire”.

Dr. Aradhana Ray, Laxmi Associates, Gujarat, India, shared her vast knowledge about effective asset management plan and its benefits. The application techniques and procedures of asset management plan in distribution network was explained by her. Her presentation title was “Asset Management Plan (AMP) Implementation in Distribution network”.

3rd day of the NWET 2022 ended with a panel discussion among all the expert and participants. At the end, valedictory session was performed with vote of thanks.

On the 4th day, the mega All India Power Engineers’ Meet was organized with all the participants on NWET and many invited industry experts. The entire day discussion was on “Emerging Technologies on Electrical Equipment and Products...Now and Next”.

The first session was chaired by Dr. A. K. Tripathy, while various industry experts shared their view on the topic. The experts on the team were Er. Sonjib Banerjee, Er Y.V. Joshi, Er. K.K. Murty, Dr. Aradhana Ray, Er Rajaram Shinde, Er R. Prakash.

The second session was chaired by Er. R. N. Nayak, Ex-CMD, OPTCL with Er. Gopa Kumar, Er. Sethuraman, Dr Santanu Swain, Dr. Ramesh Suryavanshi, Dr. Y. P. Chawla, Dr Satyanarayan as subject experts. Er. P. K. Pattanaik has moderated both the session.

Product Exhibition

Various industry showed interest in exhibiting their product to the diverse participants of the workshop. There were stalls from Sonel Instruments, Easun-MR, Yash High Voltage, CTR.

Publication

Souvenir is published on the workshop which interacted various technical paper on emerging technologies on Power quality aspects of power system. This publication also attracted various advertisement from industry participants and the sponsors of the events.

Participation

NWET 2022 has seen large participation from industry as well as academic. Many industry professionals, faculty members and research scholar from outside SIT, and student delegates grace their presence to share and enhance their knowledge.

There was various special attraction kept in the workshop to maintain higher enthusiasm. There were a few lucky draws where each are having a couple of prizes for the industry as well as students. A selection of best delegates also undergone by the help of expert panels to motivate participants.



Event – 25

Date – 12 December 2022

Venue: Room No 102, SES, IIT Bhubaneswar

BHUBANESWAR SUBSECTION

Substation Automation based on IEC 61850 (Online Talk)



Shantanu Kumar (21 September 1967) received a B.E degree Electrical Engineering from Bangalore University, India in 1990. He further obtained his MBA degree from Indore University, India in 1996 and completed his postgraduate research in power engineering leading to MSc Eng. from The University of Western Australia, Perth, Australia in 2014. At present, he is PhD candidate on Substation Automation based on IEC 61850 on protection and control of Transmission line and Substation assets at Curtin University, Perth, WA, Australia.

He has over 35 years of experience in Transmission and Distribution as applicable to Utilities, Mining, Heavy industries spanning from Asia to Australia. Currently, he is working for a large mining company in Perth, WA as Principal Electrical Engineer. He has successfully designed, engineered and commissioned many utilities and resources substation projects in Asia and Australia. He is a chartered professional engineer of Engineers Australia and is a member of their interviewer panel to certify the aspiring power engineers. He regularly contributes research papers on Substation Automation and control in reputed IEEE journals, conferences, and symposiums.

Workshop on Electrical & Electronics Devices

Summary

The Electrical and Electronics device (EED) workshop for this academic session was conducted on 10th of December 2022 by the EEE Department in the various laboratories of the department of Silicon Institute of Technology. It is an annual event conducted by the department where the exhibition of devices is carried out by the final year students under the guidance of respective guides. This year's workshop had a display of around twenty-two (22) numbers of gadgets along with the description of its working and applications in real world. The objective of the workshop was to enhance the basic technical knowledge of the students in real time applications as well as to provide a platform for an effective information sharing.

Event

The total duration of the event was 3hr and was commenced with the welcome address by Prof. R.P. Panda, Dean, Student Affairs and Prof. R.N. Mishra, HOD, EEE, Silicon Institute of Technology. He emphasized the importance and need of the workshop and motivated the students to actively participate in such events. Shri Sribatsa Panda, Former DGM, Bokaro Steel Plant was invited as the external jury who evaluated the students based on their understanding and presentation. Students of 3rd year and faculties visited the exhibition and had an informative interaction with the final year students.

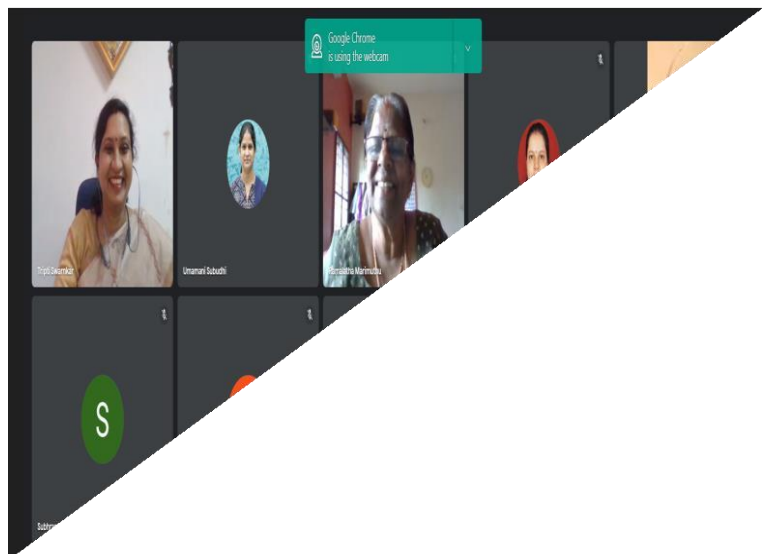
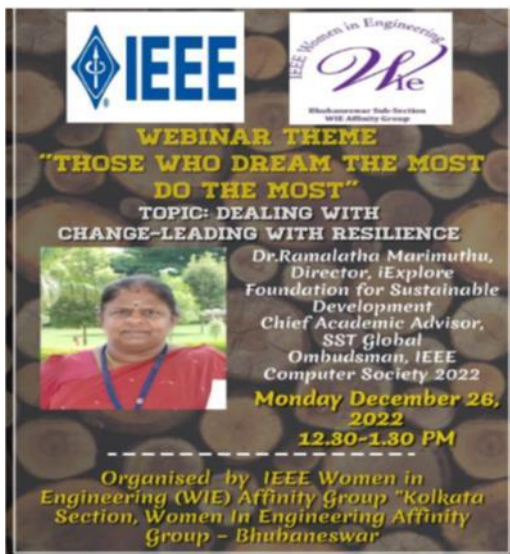


Event – 27

Date – 26th December 2022, Time – 12.30 P.M. – 01.30 P.M.

Name of the Event – Those who Dream the most Do the most (Online Mode) Title of the talk - Dealing with Change – Leading with Resilience

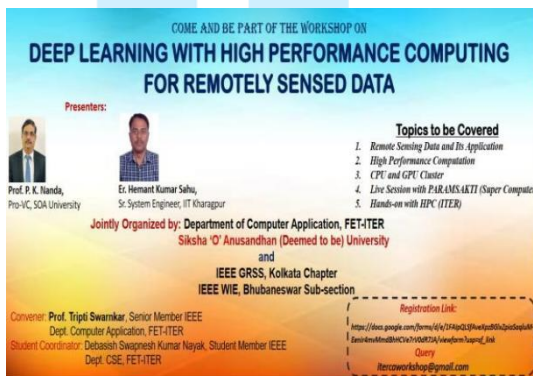
IEEE Women in Engineering affinity group "Kolkata Section, Women In Engineering Affinity Group – Bhubaneswar" organized a talk in continuation with the Webinar series started in 2022 with the theme "Those Who Dream the Most Do the Most" for the Indian women who had ventured into STEM careers. Dr. Ramalatha Marimuthu, a very dynamic leader, is an educator, entrepreneur and IEEE Impact Creator with passion towards Humanitarian Technology and Service Learning through Projects was the speaker of the series. Dr. Tripti Swarnkar, Chair WIE Committee IEEE Bhubaneswar Subsection, has given the welcome speech and addresses the audience about the theme of the webinar. Dr. Ramalatha motivates the participants for becoming entrepreneur. She explained about positive attitude, how to face challenges, setting goals and how to develop new skills. She is a role model for many projects having social impacts. The programme was ended with vote of thanks given by Dr. Umamani Subudhi, vice-Chair WIE Committee IEEE Bhubaneswar Subsection. The session was very interesting and interactive.



Event – 28
Date – 16th December 2022

Name of the Event – Deep Learning With High Performance Computing For Remotely Sensed Data

This event was jointly organized by department of Computer Application, FET-ITER Siksha 'O' Anusandhan (Deemed to be) University and IEEE GRSS, Kolkata Chapter, IEEE WIE, Bhubaneswar Sub section 16th Dec 2022 in physical mode. 41 participants were present. The topics being covered are Introduction to Remote Sensing data & it's Application, High performance Computing, CPU & GPU Cluster and Hands on session on PARAMSAKTI (Super computer) remote access from IITKgp and Access to HPC in ITER campus. The event started with a welcome address by WIE chair Prof. Tripti Swarnkar followed by invited speakers Prof. Pradeepta Kumar Nanda pro VC SOADU



and Mr. Hemanta Kumar Sahu, Sr. System Engineer IITKgp. The programme was ended with vote of thanks given by Mr Debasish Swapnesh Kumar Nayak IEEE Bhubaneswar Student Volunteer The workshop with hands-on session was very effective for the participants.

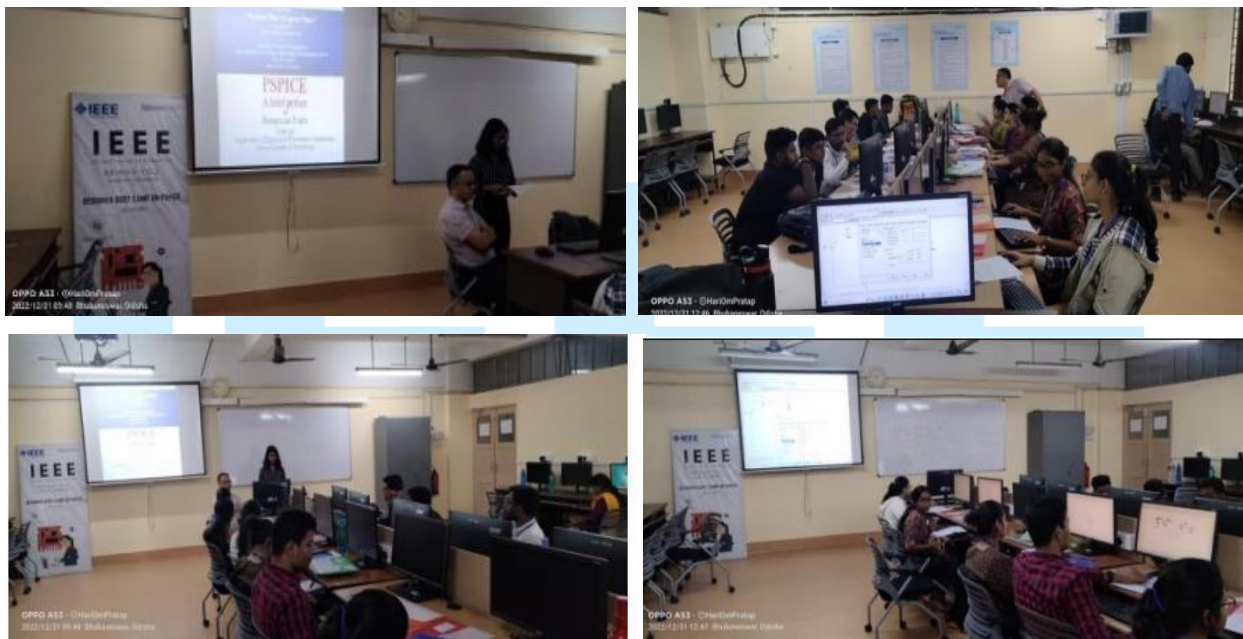
Two-Day Hands-on Program on “Electric Vehicle Power train

The inaugural session of the programme is started at 10:00 AM on Dt. 28.12.2022 with a welcome address to all the audience by Prof. Saroj Kanta Mishra, Director, SIT Bhubaneswar. Then after, Prof. Jaideep Talukdar Principal, SIT Bhubaneswar addressed the participants by giving the brief introduction about the objective of conducting such an event. Prof. Rama Prasad Panda, Dean (Administration & Student Affairs), SIT Bhubaneswar addressed by briefing the importance research and engineering of EV in recent decade throughout the globe. Besides, Dr. Rabi Narayan Mishra HoD, EEE, SIT Bhubaneswar who is the Convener of the program highlighted the objective and expected outcome of the hands-on program. The resource persons Mr. Abinash Das, EV Trainer, Skyy Rider Institutions for Advanced Skill & Research and Mr. Sanjay Baral, EV Trainer, Skyy Rider Institutions for Advanced Skill & Research are being introduced to begin the hands-on session. Before starting the hands-on program, the prominent speaker Mr. Abinash Das highlighted the present status of automotive sector in INDIA. He focused to make a better sense about transportation industry. Then after, he started the hands-on session with delivering the basic about major parts of EV and their specifications available in the market. The resource person involved the participants in various group by showing and explaining the BLDC motor, controller, battery, wire harness, key and accelerator. The sessions of Day-2 were handled by the eminent resource person Mr. Sanjay Baral. He explained the connections of the EV parts with block diagram. Participants were being involved in various group to make the connection of all the parts of EV for experiment. After making connection, the participants switched ON the EV circuit and experienced the speed of the motor. Mr. Siddarth Pattanaik, GM, Skyy Rider Institutions for Advanced Skill & Research joined at the end of Day-2 with participants and distributed the participation certificates. The resource persons are being presented with momentous followed with the vote of thanks.



One-Day Workshop on “Beginner Boot Camp on PSpice Software

The workshop is started as per the scheduled time. The resource person Prof. Rama Prasad Panda, Dean (Dean (Administration & Student Affairs), SIT Bhubaneswar was being introduced by Miss. Salonee Pattnaik, Student coordinator of the workshop. At the beginning, Prof. Panda introduced PSpice and Orcad. Also, he guided the installation procedure of the PSpice simulation tool. Besides, the procedure to specify circuit topology and its analysis is being explained by the eminent speaker. Furthermore, the participants studied the DC circuit analysis through the simulation tool. The bias point calculation, DC sweep analysis and AC sweep are being discussed with different examples/circuits by the prominent resource person. Also, the participants are being involved to study transient analysis of different circuits.



AGM cum SLATE

The AGM 2022 of Bhubaneswar Subsection was held at the Conference Room of KIIT University, Bhubaneswar on 4th January 2023 from 5.00 PM. The event was followed by a dinner. The meeting was attended by 20 members in offline + 2 members in online (Shri H. K. Ratha and Dr. D. P. Dogra). Following are the meeting deliberations/resolutions:

Agenda No. 1:

Welcome by Chair Prof. Subhansu Ranjan Samantaray, IEEE Bhubaneswar Subsection Chair, welcomed all the IEEE Bhubaneswar Subsection Members to the AGM of the year 2022 and thanked all the Members for attending the meeting. He wished Happy New Year to all. He observed that even post COVID-19 pandemic situation, IEEE Bhubaneswar Subsection was able to engage members with various hybrid activities and kept members engaged.

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Agenda No. 1:

Welcome by Chair Prof. Subhransu Ranjan Samantaray, IEEE Bhubaneswar Subsection Chair, welcomed all the IEEE Bhubaneswar Subsection Members to the AGM of the year 2022 and thanked all the Members for attending the meeting. He wished Happy New Year to all. He observed that even post COVID-19 pandemic situation, IEEE Bhubaneswar Subsection was able to engage members with various hybrid activities and kept members engaged.

Agenda No. 2:

Report by the Secretary on the activities during the year 2022 Dr. Debi Prosad Dogra, IEEE Bhubaneswar Subsection Secretary presented in online the detailed annual report on the activities, financial report, membership status, awards and other achievements of IEEE Bhubaneswar Subsection for the year 2022.

Agenda No. 3:

Selection of new Office Bearers & EC members for the year 2023 by SLATE Chairman. Prof. Ashok Kumar Tripathy, SLATE Chairman appreciated the OB & EC members of 2022 for their last year efforts towards the growth of IEEE Bhubaneswar Subsection. He discussed the rules and regulations for OB & EC selection / election. Under his supervision, the following EC of IEEE Bhubaneswar Subsection for the year 2023 has been finalized.

- a. He informed that he did not receive any new nominations / objections. So, the IEEE Execom-2023 slate proposed that the EC to continue for one more year. All members agreed to the proposal.
- b. Prof. Ram Panda expressed to step down from the Treasure position. Prof. Tripathy informed to Prof. S. R. Samantray to finalize his EXECOM 2023 team including the Treasurer Position.
- c. Prof. Tripathy appealed to all for including Student Branch chairs in the EC meetings. He proposed that if an EC member fails to attend 3 consecutive meetings without advance notice, the OB may send some show cause notice email to the EC member.
- d. EXECOM-2023 was selected by Prof. S. R. Samantray

At the end, the newly elected Chair – IEEE Bhubaneswar Subsection, Prof. Subhransu Ranjan Samantaray thanked all the members for their trust and faith on the EC and expressed his mission 2023 for the growth of IEEE Bhubaneswar Subsection.

Vote of Thanks

Prof. Brojo Kishore Mishra proposed the vote of thanks. He thanked all the members of IEEE Bhubaneswar Subsection for their hard work throughout the year 2022 and helped the EC 2022 in organizing meetings, conducting events and taking IEEE Bhubaneswar Subsection to new level. He also thanked the SLATE Chairman and his team for smooth coordination in the selection / election of new IEEE Bhubaneswar OB & EC members for the year 2023.

Career Development Hub Orientation

Event was organized by IEEE Student Branch, ITER, hosted at SIKSHA 'O' ANUSANDHAN DEEMED TO BE UNIVERSITY, BHUBANESWAR. The orientation program for Career Development Hub (CDH) was organized on January 16, 2023 at BansuriGuru Auditorium – II, ITER campus under the supervision and guidance of the Faculty Coordinator, Mrs. Anukampa Behera, Asst. Professor, Dept. of CSE. More than 650 enthusiastic students from first year and second year of B. Tech were gathered to be enlightened about the club activities and how it will be instrumental in the process building a good career. The experience team CDH had gathered was surreal. Many of the eminent dignitaries such as Prof. Dr. Renu Sharma, Addl. Dean Students Affairs, Prof. Dr. Sujit Dash, Head, Training and Placement, Mr. Ripti Ranjan Dash, Head, Industry Interaction, Dr. Tapas Mohapatra, Professor, Electrical Engineering Department, Mr. Sumit Mitra, Head, Career Development Cell and Dr. Abdul Razaque, Faculty In-Charge, Career Development Cell were invited to share their valuable experience with the students. The event was presented through a very interactive presentation in various segments by the core members of various teams such as Technical, Aptitude and Soft Skills Team. Prof. Dr. Renu Sharma, Addl. Dean Students Affairs gave presentation and discussed at large on IEEE Student membership benefits. The Roles and responsibilities of each team was highlighted with the introduction of the 'Research and Development Team'. The team aims at creating an ecosystem where students will share their accomplishment, knowledge and experience with other fellow students achieving excellence together.



Report on Millets Innovation Challenge at GIET University

With the aim to create awareness and increase production & consumption of millets, United Nations, at the behest of the Government of India, declared 2023 the International Year of Millets. In its pursuit to create an innovation driven and celebrate the International Year of Millets, GIET University, Gunupur organized Millets Innovation Challenge of national importance and societal relevance. With the best supports received from the AICTE, NRDC and IEEE Bhubaneswar Subsection, GIET University, Gunupur completed the Millets Innovation Challenge (from the submission stage - shortlisted - mentoring - to the final evaluation stage). Initially we received 32 submissions. All the submissions were shortlisted by the NRDC, GoI expert members. Out of 32 entries, 17 were shortlisted by them. We mentored those 17 entries by coordinating Millets Webinar Series talks. On 17th March 2023, the final evaluation round of Millets Innovation Challenge was held virtually under the Chairmanship of Shri H.K. Mittal (Chairman, Startup India Seed Fund Scheme) and other jury members were Dr. Akanksha Jain (Food Technologist, APEDA Project, NRDC), Dr. Harish Pant (Co-Founder & Managing Director, Trikaya Cosmos Pvt. Ltd.) and Mr. Sunil M Ponneth (CEO - ACIC GIET University Foundation). We received the result from the Jury members. On the occasion of Utkal Divas celebration at GIET University, Dr. N. V. J. Rao (Registrar, GIET University) appreciated all and distributed the winners' certificates & participation certificates in virtually. After completion of the event, emailed their certificates and winning amount (1st position - Rs. 25,000/-, 2nd position - Rs. 20,000/- and 3rd position - Rs. 10,000/-) also credited into their respective bank accounts. Finally Registrar, GIET University invited all the shortlisted participants including winners to avail the ACIC – GIET University incubation centre facility for their prototype development & marketing support, etc.

GIET University, Gunupur presents
Millets Innovation Challenge
in association with
National Research Development Corporation (NRDC), GoI
&
IEEE Bhubaneswar Sub-Section
for passionate Students, Startups and Innovators
Submit your innovative proposal using the Link
<https://tinyurl.com/MilletsInnovation>
WINNER WILL GET CASH PRIZES, INCUBATION SUPPORT, MENTORSHIP AND NETWORKING.
Deadline for application phase - **January 20, 2023.**
Timelines Short listing of participants February 1 - 15, 2023.
Evaluation February 25, 2023 to March 10, 2023.
The list of awarded Innovators will be announced by April 1, 2023.
For details please contact :- **Dr. Brojo Kishore Mishra, Ph.D(CS)**
Professor, Department of Computer Science and Engineering, GIET University & Joint Secretary- cum- Chair (Student Activities), IEEE Bhubaneswar Sub-Section
<http://www.giet.edu/>

Millets Innovation Challenge
Organized by
GIET University, Gunupur, Odisha, India
in association with
National Research Development Corporation (NRDC), GoI
&
IEEE Bhubaneswar Sub-Section
Certificate of Participation
This certificate is awarded to **D.M. ROHINE, S. NAGHASWETHA, G. HARINI**
of team Postal Millet Bran Oil..... for participating
in the grand finale round of Millets Innovation Challenge held on 17th March 2023.
Chair (Student Activities) IEEE Bhubaneswar Sub-Section
Registrar GIET University

Millets Innovation Challenge
Organized by
GIET University, Gunupur, Odisha, India
in association with
National Research Development Corporation (NRDC), GoI
&
IEEE Bhubaneswar Sub-Section
Certificate of Winner
This certificate is awarded to **VIJAYAKUMAR B.** of team
Millet Eggs..... for Winning 1st Position in
the grand finale of Millets Innovation Challenge held on 17th March 2023.
Chair (Student Activities) IEEE Bhubaneswar Sub-Section
Registrar GIET University

GIET University, Gunupur presents
Millets Webinar Series
(Millets : An approach for sustainable agriculture and healthy world)
in association with
National Research Development Corporation, GoI
Webinar #03
What is the importance of innovation in Millets?
31 JANUARY 2023
11:30AM IST
Dr. Banu Priya Yogeewaran
Director
BR Medical Research and Software Solutions
If interested to participate, kindly register yourself using the following Google form.
<https://cutt.ly/c9zcdjP>
For details please contact
Dr. Brojo Kishore Mishra, Ph.D(CS)
SBC, IEEE Student Branch - GIET University
bkmishra@giet.edu / +91 9437875808
<https://www.giet.edu/>

Millets Innovation Challenge Winners

Position	Project Name & Team Leader details	Bank account detail	Amount
1 st	VIJAYAKUMAR B M.Sc(Foods & Nutrition) 2 nd yr PSC College of Arts & Science, Coochbehar - 741014 Mob- 739447344 vijayakumar381@gmail.com	A/C Holder Name: VIJAYAKUMAR B Bank Name: BANK OF INDIA A/C No: 6291911000700 IFSC code: BKID0008299 Branch: Ariyanganam	Rs. 25,000/-
2 nd	1000 days meal for pregnant women and infants Kasturba Usha Naga Prasad CEO - NaniPalan mob: 96182206294 usha80prasad@gmail.com	A/C Holder Name: K. U. N. Prasad A/C No: 359123282 Bank Name: State Bank of India IFSC code: SBIN0001304 Branch: Satabda	Rs. 20,000/-
3 rd	Automated Millet Vending Machine Biswanjan Bhoja Research Scholar, Ph.D(CSE) GIET University, Gunupur-761022, Odisha Mob-9439612742 biswanjan.bhoja@giet.edu	A/C Holder Name: Biswanjan Bhoja SBI Account Number: 3690437040 Bank Name: State Bank of India IFSC Code: SBIN0017199 Branch: GIET Gunupur Branch	Rs. 10,000/-

Registrar
GIET University, Gunupur

IPR Awareness Programme
(Under National Intellectual Property Awareness Mission)
organized by
IEEE Student Branch
GIET University, Gunupur
Expert Speaker
Shri Dhiren Pattanayak
Examiner of Patents & Designs and NIPAM officer
Indian Patent Office, Kolkata
Ministry of Commerce and Industry, GoI
15 March 2023
3:30PM IST
For details please contact
Dr. Brojo Kishore Mishra, Ph.D(CS)
bkmishra@giet.edu / +91 9437875808
<https://www.giet.edu/>

Student Membership Drive at Various HEI of Odisha State



Event – 35

Awards & Recognition



Dr. Chinmoy Kumar Panigrahi
Outstanding Volunteer Award 2022

Dr.Sujata Chakravarty
Two Medal of Honour Award
One Medal for Patent



Niranjan Kumar Ray
Outstanding Service Award 2022

Prof. Ganapati Panda
Felicitation to Prof. Ganapati Panda as distinguished professor and mentor on the occasion of 50 years Golden Jubilee celebration of Electronics and Telecommunication Engineering Department at VSSUT BURLA on 29.01.2023

Webinar on “Quantum Communications”

IEEE COMMUNICATION AND COMPUTER JOINT SOCIETIES CHAPTER, CHANDIPUR and INTEGRATED TEST RANGE, CHANDIPUR organized a webinar titled “Quantum Communications” on 16th February 2023 at Range Center, ITR. The resource person Dr Anil Prabhakar, Professor, Department of Electrical Engineering, IIT Madras delivered the talk over video conferencing. He elegantly explained the new dimension of quantum technologies. The emerging quantum technologies have wide applications in metrology, communications and computing. He further highlighted upon the national importance of quantum communications in securing metro area quantum networks.



3rd IEEE International Conference on Range Technology “ICORT-2023”

IEEE COMMUNICATION AND COMPUTER JOINT SOCIETIES CHAPTER, CHANDIPUR, IEEE BHUBANESWAR SUB-SECTION, IEEE KOLKATA SECTION and INTEGRATED TEST RANGE (ITR), CHANDIPUR organized 3rd International Conference on Range Technology “ICORT-2023” from 23rd February 2023 to 25th February 2023 at ITR.

The conference was held in a hybrid mode with the theme, Test and Evaluation of Weapon Systems: a Global Perspective. Delegates from seven different countries other than India had participated in this conference. The conference was inaugurated by Director General, Missiles and Strategic Systems, DRDO, Dr BHVS Narayana Murthy in presence of Former Director General Dr V G Sekaran, Director, ITR Shri H K Ratha and several other senior officials from DRDO. The keynote speech was delivered by Dr V K Saraswat, Former Secretary DRDO, Member, NITI Aayog & Chancellor Jawaharlal Nehru University. ICORT-2023 had hosted speakers from across the globe, who presented their technological achievements in the following five parallel tracks related to Test and Evaluation of defence systems.

- Antennae, RF & Microwave and Radar
- IR tracking and Image Processing
- Telemetry, Communication & Flight Termination System
- Data Analytics & Decision Theory

The conference was very effective for all the Range Technology enthusiasts to interact with one another with recent developments in relevant fields. More than 170 technical articles were submitted by the experts on the relevant subjects, out of which 110 articles had been selected by a ~~panel~~ technical committee.

An industrial exhibition was also held in which more than 40 industries and educational institutions from India and abroad had displayed their products and technologies.

Two technical tutorial sessions were organized by the eminent authorities covering the topics on “Passive Optical Network” and “Machine Learning for Object Detection and Tracking”. Nine invited lectures were also delivered in the conference.

- Unsupervised Learning: Challenges on Handling Large Data
- AI for Radar Signal Processing
- A Recently Proposed Adaptive Filter for Tracking Applications
- Recent Trends in Machine Learning, Deep Learning and Adaptive Signal Processing
- Metamaterial for Microwave through THz to Optical Frequencies
- Geospatial Data Infrastructure
- Range requirements: Considerations for Radar Architectures and Design
- Electromagnetic radiation absorption in Indian flora and related consequences: a critical issue for sustainable growth



During Inauguration of International Conference ICORT-2023



Snaps of some exhibition stalls displayed during International Conference ICORT-2023

IEEE Lecture on Electrification of Transportation

IEEE Lecture on Electrification of Transportation was delivered by Prof. Bidyadhar Subudhi on 7th March 2023.

Professor stated that: Electrifying transportation: promising approach to alleviate climate change issue. Prof. Subudhi discussed:

Adoption of EV: impact on power grid. EV power train, battery, and charger Technologies: further improved technologies for wider uptake. Despite environment and economic benefits: EV charging introduces negative impacts on existing network operation. EV integration in smart grid can bring many potential opportunities: V2G technology and as solution for renewable energy intermittency issue Professor Subudhi explained BMS Features, Control challenges, V2G & G2V, Bidirectional Converter.




EC Meeting at SOA University



Distinguished lecture series Jointly Organised by INAE Bhubaneswar Chapter, SOA University, IMMT Bhubaneswar and IEEE Bhubaneswar Sub-section

Distinguished Lecture Series organized jointly by
**INAE Bhubaneswar Chapter, SOA University,
 IMMT Bhubaneswar and IEEE Bhubaneswar Sub-Section**

LECTURE-21
**Accelerator Architectures for Deep Neural Networks
 and Homomorphic Encryption**



Prof. Keshab K. Parhi
 Dept. of Electrical & Computer Engineering
 University of Minnesota, Minneapolis

Prof. Keshab K. Parhi received the B.Tech. degree from the Indian Institute of Technology (IIT), Kharagpur, in 1982, the M.S.E.E. degree from the University of Pennsylvania, Philadelphia, in 1984, and the Ph.D. degree from the University of California, Berkeley, in 1988. He has been with the University of Minnesota, Minneapolis, since 1988, where he is currently Erwin A. Kelen Chair in Electrical Engineering and Distinguished McKnight University Professor in the Department of Electrical and Computer Engineering. He has published over 700 papers, is the inventor of 34 patents, and has authored the textbook VLSI Digital Signal Processing Systems (John Wiley & Sons, 1999). His current research addresses VLSI architecture design of machine learning systems, hardware security, data-driven neuroscience and DNA computing. Dr. Parhi is the recipient of numerous awards including the 2017 Mac Van Valkenburg award and the 2012 Charles A. Desoer Technical Achievement award from the IEEE Circuits and Systems Society, the 2004 F. E. Terman award from the American Society of Engineering Education, and the 2003 IEEE Kiyo Tomiyasu Technical Field Award. He received the 2013 Distinguished Alumnus award from the IIT Kharagpur. He has served as the Editor-in-Chief of the IEEE Trans. Circuits and Systems, Part-I during 2004 and 2005. He is a Fellow of IEEE, ACM, AIMBE, AAAS and the National Academy of Inventors.

ABSTRACT : Machine learning and data analytics continue to expand the fourth industrial revolution and affect many aspects of our lives. The talk will explore hardware accelerator architectures for deep neural networks (DNNs). I will present a brief review of history of neural networks (IEEE OJCAS-2020). I will talk about our recent work on Perm-DNN based on permuted-diagonal interconnections in deep convolutional neural networks and how structured sparsity can reduce energy consumption associated with memory access in these systems (IEEE MICRS-2019). I will then talk about reducing latency and memory access in accelerator architectures for training DNNs by gradient interleaving using systolic arrays (IEEE ISCAS-2020). Then I will present our recent work on LayerPipe, an approach for training deep neural networks that leads to simultaneous intra-layer and inter-layer pipelining (ACM/IEEE ICCAD-2021). This approach can increase processor utilization efficiency and increase speed of training without increasing communication costs. Finally I will describe ongoing work on accelerators for homomorphic encryption, computing in the encrypted domain.

Prof. Damodar Acharya
 Former Director, IIT Kharagpur
 Chairman, IITBHU
 Chairman, Advisory Board
 SOA University, Bhubaneswar

Prof. A. K. Mahapatra
 Vice-Chancellor
 IITBHU
 Bhubaneswar


Prof. Sudhasatwa Basu
 Director
 IITBHU
 Bhubaneswar

Prof. P. K. Nanda
 Former Director, IIT Kharagpur
 Prof. Vice-Chancellor
 SOA University,
 Bhubaneswar

Prof. Renu Sharma
 Former Director, IIT Kharagpur
 Professor & Head,
 Dept. of Electronics Engineering
 IITBHU, SOA University, Bhubaneswar

November-25, 2022
5:00 PM - 6:30 PM
FRIDAY

https://docs.google.com/forms/d/e/1FAIpQLSd_5bHLSv53AAAL_KcF0qfX2pH4VR4RZ1_2h5F0MMVQ/viewform?usp=spp_url



Prof. Keshab K. Parhi
 Dept. of Electrical & Computer Engineering,
 University of Minnesota, Minneapolis

Event – 40

Date: 25th November, 2022, Time: 5.00PM to 6.30 PM

Topic: “Accelerator Architectures for Deep Neural Networks and Homomorphic Encryption”

Key Points: Machine learning and data analytics continue to expand the fourth industrial revolution and affect many aspects of our lives. The talk will explore hardware accelerator architectures for deep neural networks (DNNs). I will present a brief review of history of neural networks (IEEE OJCAS-2020). I will talk about our recent work on Perm-DNN based on permuted-diagonal interconnections in deep convolutional neural networks and how structured sparsity can reduce energy consumption associated with memory access in these

I will then talk about reducing latency and memory access in accelerator architectures for training DNNs by gradient interleaving using systolic arrays (IEEE ISCAS-2020). Then I will present our recent work on LayerPipe, an approach for training deep neural networks that leads to simultaneous intra-layer and inter-layer pipelining (ACM/IEEE ICCAD-2021). This approach can increase processor utilization efficiency and increase speed of training without increasing communication costs. Finally, I will describe ongoing work on accelerators for homomorphic encryption, computing in the encrypted domain.

People Participated: 71

You tube Link to the Video : <https://youtu.be/QQr8SdKSmKs>

Distinguished Lecture Series organized jointly by
**INAE Bhubaneswar Chapter, SOA University,
 IMMT Bhubaneswar and IEEE Bhubaneswar Sub-Section**

LECTURE-22
Design of Experiments



Prof. Tapan P. Bagchi
 Indian Institute of Technology Kharagpur
 Vinod Gupta School of Management, Kharagpur, India
 Adjunct Professor of Quantitative Methods

Prof. Tapan Bagchi holds a B.Tech (IIT Kanpur), M.A.Sc and Ph.D (University of Toronto), and a D.Sc (IIT Kharagpur). A Registered Professional Engineer (Ontario) and FIE (India), he has served as Professor/Dean/Director at six leading Indian institutions. Till 1987 he served Exxon-Mobil Corporation in Canada, USA, Europe and Singapore receiving Exxon's Extraordinary Contributions Award. Authored seven texts and over 100 journal papers in Computer Science, Operations Management, Quality Engineering, Scheduling, Taguchi Methods, Value at Risk, Research Methodology and Genetic Algorithms. His YouTube® lecture series on Six Sigma have been viewed by over 500,000 individuals.

ABSTRACT : This talk will focus on Design of experiments (DOE), a powerful method in applied statistics that helps one explore and establish causality—what effects what? Used extensively in quality engineering, drug development, scientific and social studies and economics where a theoretical Cause & Effect model is not available to guide the control of a system, DOE is a major R&D tool today in analytics. DOE allows multiple independent factors to be manipulated together in order to determine their effect on a desired output (response or dependent) variable. In DOE all possible factor combinations can be investigated (full factorial) or only a portion of the possible combinations (fractional factorial). This talk will address the theory, data collection, its analysis, and the development of empirical cause-effect models by DOE.

Reference: Youtube <https://www.youtube.com/watch?v=sIR1xWvYiY>

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 SOA University,
 Bhubaneswar

Prof. Renu Sharma
 Former Director, IIT Kharagpur
 Professor & Head,
 Dept. of Electronics Engineering
 IITBHU, SOA University, Bhubaneswar

December-05, 2022
11AM - 12:30 PM, MONDAY
NEW
 New Board Room, 2nd Floor
 SOA University, Khandagiri
 Bhubaneswar, Odisha

https://docs.google.com/forms/d/e/1FAIpQLSd_5bHLSv53AAAL_KcF0qfX2pH4VR4RZ1_2h5F0MMVQ/viewform?usp=spp_url



Prof. Tapan P. Bagchi
 Indian Institute of Technology, Kharagpur
 Vinod Gupta School of Management

Event – 41

Date : 5th December, 2022 between 11.00AM to 12.30 PM

Topic : “Design of Experiments”

Key Points : This talk will focus on Design of experiments (DOE), a powerful method in applied statistics that helps one explore and establish causality—what effects what? Used extensively in quality engineering, drug development, scientific and social studies and economics where a theoretical Cause & Effect model is not available to guide the control of a system, DOE is a major R&D tool today in analytics. DOE allows multiple independent factors to be manipulated together in order to determine their effect on a desired output (response or dependent) variable. In DOE all possible factor combinations can be investigated (full factorial) or only a portion of the possible combinations (fractional factorial). This talk will address the theory, data collection, its analysis, and the development of empirical cause-effect models by DOE.

People Participated: 110

Reference: Youtube <https://www.youtube.com/watch?v=sIR1xWvYiY>

Distinguished Lecture Series organized jointly by
**INAE Bhubaneswar Chapter, SOA University,
 IMMT Bhubaneswar and IEEE Bhubaneswar Sub-Section**

LECTURE-23
**Applied Research in Computer Architecture, AI and HPC
 - a Personal Journey**



Dr. Ashwini K. Nanda
 Founder and CEO of HPC Links Pvt Ltd,
 in India and US


Dr. Ashwini K. Nanda is an internationally recognized expert in high performance computer architecture and applications. He is the Founder and CEO of HPC Links Pvt Ltd, in India and US. Dr. Nanda pioneered the concept of heterogeneous supercomputing at IBM TJ Watson Research Center in NY, which has become the norm for all major systems in Top500 today. The technology developed by his team enabled the world's first PetaFLOP supercomputer system 'Roadrunner' at Los Alamos National Labs.

As the Head of Tata Computational Research Labs (CRL), Pune, he led the development of the Eka system that became Asia's fastest supercomputer in 2007-2009. Dr. Nanda had worked with honorable ex-President Dr Abdul Kalam (then head of DRDL) in 1980's to develop parallel computers for India's Akash missile system at Wipro, Bangalore.

He has served in the Editorial Board of several internationally reputed journals such as IEEE Transactions on Parallel and Distributed Systems, special issues of the IEEE Computer magazine and IBM Journal of R&D. He holds fifteen US patents and has published over 80 papers in the areas of computer architecture and parallel computer systems. He is currently a visiting professor at IIT Bhubaneswar, and a Distinguished Professor and advisor at CV Raman Global University. Dr. Nanda is a Fellow of IEEE (Computer Society), USA, and a Fellow of AIAA (Asia Pacific AI Association).

February-27, 2023
5.00 PM - 6.30 PM, MONDAY

For registration:
https://soa.google.com/forms/d/e/1FAIpQLSd58ICPBAARCPgT0aTSpouCkaguWEocgQyA4Z6zHDE0w/viewform?usp=ppg_u1



Dr. Ashwini K. Nanda
 Founder and CEO of HPC Links Pvt Ltd, in India and US

Event - 42
 Date : 27th February, 2023 between 5.00PM to 6.30PM.

Topic : "Applied Research in Computer Architecture, AI, and HPC - a Personal Journey"

Key Points : Discussion on the primary challenges of extreme-scale AI-coupled HPC campaigns -- task heterogeneity, adaptivity, performance -- and several framework and middleware solutions which aim to address them. While both HPC workflow and AI/ML computing paradigms are independently effective, the talk highlight how their integration, and ultimate convergence, is leading to significant improvements in scientific performance across a range of domains, ultimately resulting in scientific explorations otherwise unattainable. The presentation thoroughly explains an Exascale applications from the Autonomous Driving ,Cancer Research which starts from molecular level to drug level modelling, diagnosis, patient tracking etc. and many more .The talk also covers the Proposed Integrated Labs and Industry 4.0 Focus too. **People Participated: 45**

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 Chair, PELS Society Chapter- Ex Officio
 Chair, CE Society Chapter- Ex Officio
 Chair, IE Society Chapter- Ex Officio
 Chair, Joint Communications and Computer Society - Ex Officio



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Prof. Ashwini Kumar Nanda, FIEEE, Adjunct Professor, IIT BBSR
 Prof. P K Meher, CVRGU
 Prof. P K Nanda, SOA University
 Sri B. B. Mehta, Director - OPTCL, Bhubaneswar





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Prof. Ganapati Panda Professor & Research Advisor CGU, Bhubaneswar	Prof. Ashok Tripathy Retired Director General Central Power Research Institute

Special Invitees	Special Invitees	Special Invitees	Special Invitees
			
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Prof. Chinmay Panigrahi KIIT DU, Bhubaneswar	Dr. Ramprasad Panda SIT, Bhubaneswar	Prof. Tripti Swarnakar SOA University, Bhubaneswar	Dr. Niranjana Ray KIIT DU, Bhubaneswar	Mr. Rajesh Kumar ITR Chandipur

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