

# IEEE BHUBANESWAR SUB-SECTION NEWSLETTER

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Editor-In-Chief: Dr. Umamani Subudhi

## 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.



## Mr Hare Krishna Ratha , Chair

Dear IEEE Bhubaneswar Subsection Members,

I hope this message finds you all in good health and spirits. As we step into the exciting year of 2024, I am thrilled to announce that our highly anticipated newsletter will make its grand debut in February! As Chair of the IEEE Bhubaneswar Subsection, it gives me immense pleasure to bring this platform to you, our esteemed members.

At the outset, on behalf of IEEE Bhubaneswar subsection, I welcome the entire executive committee office bearers and members selected for the calendar year 2024. I wish all of them to share their expertise with the community and contribute to the collective growth and development of our sub-section.

Our newsletter aims to serve as a medium to keep you well-informed about the latest advancements in technology, upcoming events, and opportunities within our local community. It will be a space for us to connect, share knowledge, and celebrate our collective achievements. In line with IEEE's mission, our sub-section is committed to promoting the advancement of technology for the benefit of humanity. This newsletter will play a pivotal role in fulfilling this mission by empowering us with knowledge, inspiring innovative thinking, and fostering collaboration among our members. I strongly encourage all of you to actively participate in this venture. We want to hear your success stories, research breakthroughs, and insights.

To ensure the success of our newsletter, we have assembled a dedicated team of volunteers who have been working tirelessly to curate engaging and informative content. We are determined to provide you with a publication that you can look forward to every quarter.

Lastly, I would like to express my gratitude to all our members for their continued support and enthusiasm. It is your active involvement that makes our sub-section vibrant and impactful. Together, let's make the IEEE Bhubaneswar Subsection Newsletter a resounding success, fostering a sense of belonging and encouraging collaboration among us all.

I eagerly look forward to your contributions, feedback, and suggestions. Together, I am confident we will take our sub-section to new heights in the realm of technology and innovation. Stay tuned for the inaugural edition of our newsletter in February 2024!

Warmest Regards,

**Harekrishna Ratha**

Chair, IEEE Bhubaneswar Subsection



**Prof. Chinmoy Kumar  
Panigrahi**  
Vice Chair, IEEE

IEEE, an organization dedicated to advancing innovation and technological excellence for the benefit of humanity, is the world's largest technical professional society. The IEEE is a technical, professional association with over 426,000 members in more than 160 countries.

We are blessed with many dedicated volunteers who care deeply about our discipline, its standing, and contributions in a fast-changing environment. They also care about serving our members, from the most junior to the most experienced, and about creating opportunities for the betterment and advancement of their careers in industry and academia.

Our strategic priorities for 2024 include participation in the IEEE-wide efforts in Climate Change and Sustainable Technologies, imagining future products and services and new audiences, providing value to and growing existing audiences, and building on our diverse and inclusive community including implementation of the new IEEE Fellows process.

We also take a look at exemplars for leveraging cross-cutting technology areas, increasingly important for addressing the technology grand challenge problems of our time. Student Branches provide an opportunity for IEEE Student members to begin networking in their areas of interest and future profession. We will do our best to make you proud of your association with the Subsection.

**Prof. Chinmoy Kumar Panigrahi**

Professor and Director, School of Electrical Engineering, KIIT, Deemed to be University  
Vice Chair, IEEE Bhubaneswar Sub Section



**Prof C N Bhende**  
**Secretary,**  
**IEEE Bhubaneswar**  
**Subsection**

At the onset, I thank the members for providing me the opportunity to serve as the Secretary of the subsection for the year 2024. 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 2023 was an engaging year with several important activities organized and supported by the subsection. IEEE BHUBANESWAR chapter in support with SPARK is organizing Industry-Institute Interactive Sessions. MathWorks in collaboration with IEEE Bhubaneswar organized a Seminar on 'Embracing AI in Engineering' on 1st Sept 2023 at Mayfair Lagoon, Bhubaneswar. IEEE Kolkata-Bhubaneswar IAS (Industry Application Society) chapter has been approved. In the year 2024, 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 2024. 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.

**Chandrashekhar N. Bhende**  
**Secretary, IEEE Bhubaneswar Subsection**

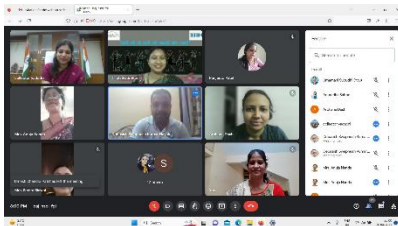


**Date: 1st April 2023**

## **A talk on “The Universe is Your Dreamcatcher” By dynamic leadership coach Ms Pamela Satpathy**



A very dynamic leadership coach Ms Pamela Satpathy, IAS delivered an inspiring talk on the topic "The Universe is Your Dreamcatcher". It was held on 1st April, Saturday, 2023 at 7.00 - 8.00 pm(IST) in virtual mode.



In relation to this, she discussed that one can contribute to the society in whatever role one is performing. One need not climb the highest post or designation to make a difference. The attitude to make a difference in others life itself empowers one to do that. Talking about, work life balance, she told that, we can do "Work, life integration", given the nature and omnipresent responsibilities we are entrusted

with.

**Date – 7th April 2023**

## **Celebration of IEEE Education Week, Lecture on “RF Calibration Philosophy”**



IEEE COMMUNICATION AND COMPUTER JOINT SOCIETIES CHAPTER, CHANDIPUR and INTEGRATED TEST RANGE, CHANDIPUR organized a technical lecture titled “RF Calibration Philosophy” on 07th April 2023 at Range Center, ITR as a part of celebrating IEEE education week. The resource person Mr Rajashekhar Sankesha, Country Manager, Fluke Technology Pvt Ltd., Bangalore delivered the talk on importance of calibration on using RF instruments for test applications. He further highlighted upon the different advanced technology being in place in the field of calibration. MET/CAL software helps for better calibration data analysis and tracking of the instruments for timely initiation of calibration activity

**Date – 14th April 2023**

**IEEE IAS SBC Meeting and Membership Drive  
At Kalinga Institute of Industrial Technology Industry  
Applications Society Student Branch Chapter**



The KIIT IEEE IAS SBC meeting was held on 14th April 2023 after getting the approval on dt. 04.04.2023 with IEEE IAS Board members Prof. Akshay Kumar Rathore (IEEE Fellow), SIT, Singapore and Prof. Vinod Khadkikar (IEEE Fellow), Khalifa University. Dr. Ranjeeta Patel, Advisor, IEEE IAS SBC welcome all the esteemed IEEE officials. Prof. B.K. Nayak, Dean SoEE, KIIT-DU and Prof. Chinmoy Kumar Panigrahi, QA Cell, Director, KIIT-DU and Counselor KIIT SBC briefly describes about the IEEE Societies, chapters and activities of SoEE, KIIT-DU. Prof. Akshay Kumar Rathore talked

about the IEEE IAS that how it is helpful for the students in their research career. He also added the events being organized by IEEE IAS in world forum. Prof. Vinod Khadkikar basically talked about the membership drive. In this meeting other discussion like the planning of inauguration and upcoming activities are discussed in the presence of IEEE IAS student members. Finally, the meeting is ended with vote of thanks.

**Date – 15th April 2023**

**A talk on "Introvert to IEEE Influencer"**



Ramneek Kalra, an IEEE Impact Creator, delivered an inspiring talk to aspiring students, detailing his remarkable journey from introvert to IEEE influencer. He shared insights on how he harnessed his passion for technology to break free from his shell. Through engaging anecdotes, he emphasized the

power of consistent effort, networking, and embracing opportunities. His session resonated deeply, motivating students to overcome their own inhibitions, pursue their passions, and become influential figures in the world of IEEE and beyond.



**Date – 17th May 2023**

## **Celebration of World Telecommunication and Information Society Day**



IEEE COMMUNICATION AND COMPUTER JOINT SOCIETIES CHAPTER, CHANDIPUR and INTEGRATED TEST RANGE, CHANDIPUR jointly celebrated World Communication and Information Society Day on 17th May 2023 at Range Center, ITR, Chandipur. The program was inaugurated by Shri Harekrishna Ratha, Outstanding Scientist & Director, ITR. In his inaugural talk, he highlighted upon the importance of observing world telecommunication and information society day. A webinar lecture was organized titled “5G/6G: Human exposure to electromagnetic fields and health” as a part of celebrating the day. The resource person Shri Balakrishna Islavat, Deputy Director/Scientist, Center for Electromagnetics, Chennai delivered the

talk on effect of electromagnetic field exposure in day-to-day life. He briefly introduced about the growth of 5G/6G technology and its application viewpoints. He also interacted with the audiences to clarify various questions on the topic.

**Date:2nd-3rd June 2023**

## **A two-day workshop on "Remote Sensing and Their Applications"**



A two-day workshop on "Remote Sensing and Their Applications" organized by the IEEE GRSS Kolkata Chapter in collaboration with the IEEE BBSR WIE AG and Siksha 'O' Anusandhan Deemed to be University, concluded on June 3, 2023. The workshop aimed to explore the various facets of remote sensing and its practical applications in today's world.

The event witnessed the presence of eminent speakers, including Prof. Barun Raychoudhary from Presidency University, Kolkata, Prof. U. C. Mohanty, a distinguished Professor at the Centre for Climate and Smart Agriculture at SOA Deemed to be University, Prof. Avik Bhattacharya from the Centre of Studies and Resources Engineering at IIT Bombay, and Prof. Debadatta Swain from the School of Earth Ocean and



Climate Sciences at IIT Bhubaneswar. Their expertise and knowledge added immense value to the discussions and presentations throughout the workshop.

The second day featured sessions on the application of Remote Sensing in predicting



high-impact extreme weather events over India, as well as radar remote sensing and its applications. The workshop also included engaging hands-on sessions led by Prof. Debdatta Swain in collaboration with the School of Geography and Environmental Science at the University of Southampton, United Kingdom, on

the first day. On the second day, Prof. Avik Bhattacharya conducted another interactive hands on session.

Nearly 40 participants, including faculty members, research scholars, postgraduates, and undergraduates, attended the workshop. The diverse backgrounds of the participants fostered vibrant discussions and a rich exchange of ideas. Prof. P. K. Nanda, the former Chair of the IEEE GRSS Kolkata Chapter and Vice Chancellor of SOA Deemed to be University, served as the convener of the workshop, while Dr. Tripti Swarnkar, Chair of the IEEE Bhubaneswar Women in Engineering Affinity Group and a Professor at ITER, SOA Deemed to be University, acted as the co-convener. The workshop also had the honor of hosting Dr. Sarat Chandra Sahoo, former director of IMD Bhubaneswar and current director of the Centre for Environment and Climate at SOA Deemed to be University, as a special invitee.

The experts also took the opportunity to discuss the recent train accident in Odisha, which occurred on June 2, emphasizing the potential applications of remote sensing technologies in such incidents. Overall, the workshop proved to be a grand success, achieving its objective of fostering knowledge exchange, exploring applications of remote sensing, and promoting interdisciplinary collaborations. The participants left with a deeper understanding of remote sensing and its significant role in addressing real-world challenges. The IEEE GRSS Kolkata Chapter, the IEEE BBSR Women in Engineering affinity group, and Siksha 'O' Anusandhan Deemed to be University deserve commendation for organizing this enriching workshop, which undoubtedly made a lasting impact on all those in attendance.

Date – 23rd JUNE, 2023

**Webinar series on the theme "Those Who Dream the Most Do the Most", organized by the IEEE Kolkata section WIE affinity group, Bhubaneswar**

**Life is a Journey**  
"Those Who Dream the MOST, Do the MOST"  
23 June 2023 on the eve of International Women in Engineering Day

**ABOUT THE SPEAKER**  
SUSHMITA MITRA IS A FULL PROFESSOR AT THE MACHINE INTELLIGENCE UNIT, INDIAN STATISTICAL INSTITUTE, KOLKATA FROM 1992 TO 1994. SHE WAS IN THE BUNY, AACHEN, GERMANY AS A DAAD FELLOW. SHE WAS A VISITING PROFESSOR IN THE COMPUTER SCIENCE DEPARTMENT OF THE UNIVERSITY OF ALBERTA, EDMONTON, CANADA, INDIAN UNIVERSITY, DARJIL AND KALINGA UNIVERSITY BIRLA, BIRSA, INDIA. SHE BELONGS TO THE NATIONAL TALENT SEARCH SCHOLARSHIP (NTS) 1983 PROGRAM, INDIA. THE UNIVERSITY GRADUATED IN 1988, THE IEEE TEN OUTSTANDING PAPER AWARDS IN 1994 AND THE PROMISING WOMEN IN INNOVATION COMPUTING, THE CAPRA-INTRA UNESCO FELLOWSHIP IN 1994, AND FULBRIGHT SENIOR RESEARCH FELLOWSHIP IN 2010-2011. SHE WAS THE BIRLA CHAIR PROFESSOR DURING 2010-2011. DR. MITRA HAS BEEN AWARDED THE FRIEDRICH A. H. SCHLEGEL FELLOWSHIP, 2011.

**Prof. Sushmita Mitra**  
Machine Intelligence Unit,  
Indian Statistical Institute Kolkata

**JOIN THE ONLINE SESSION**  
FROM 12.30-1.30 PM

Join with below meeting link  
<https://meet.google.com/gkd-wgqp-juh>

Engineering is a very crucial element in helping countries to achieve global sustainable development goals. Women represent half of the world's population, and their contribution is the key to unlocking innovative solutions. To celebrate the role of women at the forefront of innovation, and the development of new and improved solutions to the challenges the society faces, International Women in Engineering Day is organized on JUNE 23 every year.



The webinar started with the welcome address by Dr. Tripti Swarnkar, Chair, WIE affinity group, Bhubaneswar.

The chair introduced Prof. Sushmita Mitra. Full Professor, Machine Intelligence Unit, Indian Statistical Institute, Kolkata

The topic of her presentation "Life is a journey" is a type of sociotechnical talk.

The first part of the talk was about the journey of women in life and career. The second part of the talk was the application of machine learning in health care. She started by thanking her mother. According to her working women are handicapped.

A woman has to balance between career, and family(A kind of multi-objective optimization) and everyone has their way and priority of optimization.

Few of her highlights

- Life encompasses 3 lotteries
- Parents
- Spouse
- Children

In these things, a person has no choice. For the rest of the things, one can choose optimally.

Then she spoke about her research. Her major research area includes Radio Genomics, Histo pathology, Diabetic retinopathy, etc. According to her AI can not replace a human. It only assists humans. An AI agent who only optimizes profit and loss can not have emotion, empathy, and gratitude. It can not have an optimal situational action. However, still, it is necessary to have industry and academic collaboration to develop automated tools and to make those available at low cost.

Her talk also included some amount of spirituality. Since the talk was organized during ratha yatra, she compared our body to Rath and the "indrias " as horses, Budhi as intellect, and GOD as soul. According to her, to be successful in life it is necessary to be positive and confident.

About happiness, she told" Happiness comes from focusing on what have not what you don't have.

There is no point to compare and get jealous. It is not the way to happiness.

The talk was followed by a long question and answer session. The talk was over with a vote of thanks given by Dr. Uma Mani Subudhi.

**Date – 3rd JULY, 2023**

## **Webinar on “Virtual Reality Experience” at Kalinga Institute of Industrial Technology Industry Applications Society Student Branch Chapter**

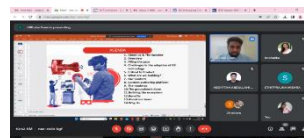
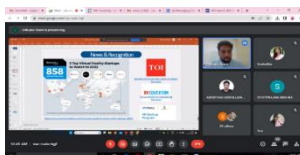
The poster is for a webinar titled "Webinar on Virtual Reality Experience" organized by the Kalinga Institute of Industrial Technology (KIIT) IEEE IAS Student Branch Chapter. It features a portrait of Mr. Nihar Sripad Madkaiker, Co-Founder of iXR Labs. The text on the poster describes iXR Labs as a VR-ed-tech startup that offers higher education (UG, interactive and immersive VR modules) designed to complement traditional classroom education and provide unique opportunities to expand knowledge. It mentions that iXR Labs' learning solutions align with the AICTE-approved academic curriculum, primarily in core engineering disciplines like Mechanical Engineering, Civil Engineering, and Electrical Engineering. The webinar is scheduled for 07.2023 (10:30 AM-11:30 AM) on Google Meet at <https://meet.google.com/mcc-ent-kgf>. The content is contributed by Dr. Manoj Kumar Patil, Prof., iXR Labs, with a contact email of [manoj.patil@iXRlabs.org](mailto:manoj.patil@iXRlabs.org).

Mr. Nihar Sripad Madkaiker currently handles Strategy and Operations at a growing Augmented Reality and Virtual Reality Ed-Tech startup, iXR Labs. He also looks after internal product development, with a focus on education, learning and development.

He had a brief stint at a Management Consultant with a consulting firm in Goa. (Mangal Analytics and research consulting.),

where he handled research and financial analytics at MARC before I moved out to iXR.

He is MBA from Management Development Institute (MDI), Gurgaon. He hold a Green belt in Lean Six Sigma, Certified by KPMG. He is a Goa (India) based Mechanical Engineer. He is a birdwatcher and a Formula 1 fan (and many other hobbies/ interests). iXR Labs is a VR-ed-tech startup that caters to higher education. Our interactive and immersive VR modules are designed to complement traditional classroom education and provide students with unique opportunities to expand their knowledge. iXR LABS' learning solutions align with the AICTE-approved academic curriculum, mainly in the core engineering discipline such as Mechanical Engineering, Civil Engineering, and Electrical Engineering.



**Date – 10<sup>th</sup> to 14<sup>th</sup> JULY, 2023**

**First PhD Summer School 2023 for doctoral scholars with power Electronics background at IIT Bhubaneswar during 10th to 14th July 2023**



**In Collaboration With**



School of Electrical Engineering, Indian Institute of Technology Bhubaneswar, in collaboration with the IEEE Power Electronics Society has organizing First PhD Summer School 2023 for doctoral scholars with power Electronics background during 10th to 14th July 2023. The objective is to encourage brilliant young minds to build careers in areas of Electrical Engineering including Power Electronics, Power Systems, Renewable Integration, Smart Grids, and Control Systems. 97 PhD Scholar working in the area of Power Electronics and its application across various institutes in India has attended the PhD Summer School. The inaugural session has been conducted on 10th July 2023 from 9 30 Am to 10 30 AM, which was attended by Prof. A K Tripathy former CPRI Director as chief guest. The event also witnessed video Address by Prof. Brad Lehman, President of IEEE PELS, Prof. Liuchen Chang, Immediate Past President has presented the State of PELS to the audience in virtual mode. Prof. Mario Pacas, VP Global relations highlighted various awards and funding opportunities in IEEE PELS. Prof. Sanjib Kumar Panda, R-10 Regional chair has provided insight to the activities in Region 10. Dr. Srinivas Bhaskar Karanki, India-Liaison has introduced the objectives of the PhD School and benefits of joining IEEE PELS to the participants.

In total 14 sessions have been conducted, which includes talks by the experts from academia and industry, PhD talks and Hand on training. 13 PhD scholars presented their work to the peers, which was followed by very interactive Q&A Session. 4 Hands on training on FPGA, STM32 and C2000 Microcontroller has been arranged as a part of PhD Summer School. 10 Lectures, which includes talks by





Prof. A K Tripathy, Prof. Deepak Raj Diwan, Prof. Sanjib Panda, Dr. Kaushik Basu, Dr. Santanu Kapat, Dr. Krishna Dora, Dr. Subham Sahoo, Mr. Kedarnath, Mr. Kamaldeep, Dr. Srinivas Bhaskar Karanki has been delivered. All the participants are shown the laboratory facilities in

IIT Bhubaneswar and special session on dSPACE has been arranged by PhD Scholars of IIT Bhubaneswar. Prof. Dehong Xu, VP Membership has given his welcome address to the audience.

The participants have provided with bags and writing materials. Mr. Ranjan, IEEE Bhubaneswar Student branch chapter chair, Mr. Sanjib, Mr. Ravi Ranjan, Mr. Pragya Nand Singh and other scholars have actively volunteered the entire program successfully. The feedback from the participants was very much positive and many institutes/Chapters have shown interest in conducting the next edition of the PhD Summer School in their location.

**Date – 19<sup>th</sup> to 20<sup>th</sup> JULY, 2023**

**Prof Tripathy with some delegates from BITS Pilani GOA campus.**



Chairman IEEE PES Bhubaneswar subsection Prof. AK Tripathy attended the clean energy ministerial and innovation meeting CEM14/MI-8 , G20 at Grand Hyatt Goa on 19th and 20th July on invitation from Dept. of Science and Technology, Govt of India.

**Date – 21<sup>st</sup> JULY, 2023**

**IEEE Lecture on “Technical Guidance towards NABL Accreditation”**



IEEE COMMUNICATION AND COMPUTER JOINT SOCIETIES CHAPTER, CHANDIPUR and INTEGRATED TEST RANGE, CHANDIPUR organized a talk titled “Technical guidance towards NABL accreditation” on 21st July 2023 at Range Center, ITR. The resource person Dr Phani Kumar G, Scientist-F, Head Food Quality Assurance Division, Defense Food Research Laboratory, Mysuru delivered the talk. He discussed

about various aspects of NABL guidelines as per ISO/IEC 17025: 2017 General requirements for the competence of testing and calibration laboratories. He also highlighted upon the procedural approach to obtain NABL accreditation, preparation of manual and procedures, proficiency test and inter-laboratory comparison requirements. It was a very interactive session.



Date – 6<sup>th</sup> August, 2023

## IEEE Lecture on “Best Practices in Lightning Protection System and Earthing”



IEEE lecture on “Best practices in lightning protection system and earthing” was conducted in ITR on 06th August 2023 by IEEE COMMUNICATION AND COMPUTER JOINT SOCIETIES CHAPTER in association with INTEGRATED TEST RANGE, Chandpur. The lecture was delivered by Dr Uday Kumar, Professor and Chair of Department of Electrical Engineering, Indian

Institute of Science, Bangalore. Twenty-Eight IEEE joint societies’ chapter members along with Forty-Nine Scientists and technocrats of ITR attended the lecture.

Dr Uday Kumar discussed about the science behind lightning phenomenon; methodology to protect systems, instruments and household items from lightning; and also recent advancement in earthing and protection systems. Professor also interacted with the audiences to clarify various questions on the topic.

Date – 11<sup>th</sup> August, 2023

## Distinguished Lecture Program At Kalinga Institute of Industrial Technology Industry Applications Society Student Branch Chapter

**25 Silver Jubilee**  
**GOAL TO SHINE**

**KALINGA INSTITUTE OF INDUSTRIAL TECHNOLOGY**

**IAS**  
Industry Applications Society

**IEEE**  
Advancing Technology for Humanity

**KIIT IEEE IAS STUDENT BRANCH CHAPTER**

**IAS DISTINGUISHED LECTURE PROGRAM**

**CubeSat Electrical Power Sub-system (EPS) Architectures**

**DR. VINOD KHADKIKAR**  
IEEE Fellow  
Professor, EECS Department, Khalifa University, Abu Dhabi, UAE

VINOD KHADKIKAR IS AN IEEE FELLOW AND A PROFESSOR IN THE EECS DEPARTMENT AT KHALIFA UNIVERSITY, ABU DHABI, UAE. HE RECEIVED M.TECH. FROM IIT DELHI IN 2002 AND PH.D. IN ELECTRICAL ENGINEERING FROM THE ITS, MONTREAL, CANADA, IN 2006. FROM DECEMBER 2008 TO MARCH 2010, HE WAS A POSTDOCTORAL FELLOW AT THE UNIVERSITY OF WESTERN ONTARIO, LONDON, CANADA. FROM APRIL 2010 TO DECEMBER 2010, HE WAS A VISITING PROFESSOR AT MASSACHUSETTS INSTITUTE OF TECHNOLOGY (MIT), USA. HE HAS CONTRIBUTED OVER 100 IEEE TRANSACTIONS PAPERS. HE WAS RANKED 148 AMONG 100,000 RESEARCHERS IN ELECTRICAL AND ELECTRONIC ENGINEERING IN THE LIST OF WORLD'S TOP 2% OF CAREER-LONG SCIENTISTS AS OF NOVEMBER 2010 RELEASED BY STANFORD UNIVERSITY. DR. KHADKIKAR IS CURRENTLY AN ASSOCIATE EDITOR OF THE IEEE TRANSACTIONS ON INDUSTRIAL ELECTRONICS, IEEE TRANSACTIONS ON INDUSTRY APPLICATIONS AND IEEE POWER ELECTRONICS. HIS RESEARCH INTERESTS INCLUDE APPLICATIONS OF POWER ELECTRONICS IN DISTRIBUTION SYSTEMS AND RENEWABLE ENERGY RESOURCES, GRID INTERCONNECTION ISSUES, POWER QUALITY ENHANCEMENT, ACTIVE POWER FILTERS AND ELECTRIC VEHICLES.

DATE: 11.08.2023 (12:00 NOON-1:00 PM), VENUE: SOEE, KIIT-DU, BHUBANESHWAR, INDIA.

Credited to: Dr. Karjane Patil, SPSEE, Email: karjane.patil@ieee.org



The IEEE Industry Applications Society (IAS) Student Branch Chapter at Kalinga Institute of Industrial Technology, Deemed to be University, Bhubaneswar, achieved a significant milestone by successfully hosting the IEEE IAS Distinguished Lecture (DL) Program on August

11, 2023. The event took place in person at the School of Electrical Engineering (SoEE), KIIT-DU, Bhubaneswar, Odisha, India.

We take immense pride in having had the honor of hosting distinguished speaker Prof. Vinod Khadkikar from Khalifa University, Abu Dhabi, UAE. Prof. Khadkikar, an esteemed IEEE Fellow and IEEE IAS Distinguished Lecturer, delivered an engaging lecture on the intriguing subject of "CubeSat Electrical Power Sub-system (EPS) Architectures."

He discussed about the Cube Satellite and highlighted the importance of Electrical Power System (EPS) in Cube Satellite mission. He discussed in detail about the design of different topologies of DC-DC converters being used in the same. His insights greatly benefited the aspiring young minds in attendance. Along with this he defined some the potential areas to further explore. The participants were faculties, PhD Scholars, M.Tech Scholars, UG students. His session was really interactive with Q&A round.

**Date- 12th August 2023**

**In-House Tech Talk by Prof. Chinmoy Kumar Panigrahi, at KIIT DU**

**Prof. Chinmoy Kumar Panigrahi, Professor and Director, IQAC, KIIT DU** presented on topic titled "Smart Grid Perspectives". The transition towards a low-carbon economy will change both the way power is produced and the way it is consumed. Smart grids are an essential element to facilitate this transformation and for achieving energy security, affordable energy and climate change mitigation—the three elements of the "energy trilemma". A smart grid is an electricity network that can intelligently integrate the actions of all users connected to it – generators, consumers and those that do both – in order to efficiently deliver sustainable, economic and secure electricity. All participants made participatory discussion with Speaker regarding career perspectives in smart illumination and Smart Materials, AI & ML and emerging technologies. Participation e-certificates were distributed to all participants followed by submission of feedback form and all appreciated the session.

**Date – 18<sup>th</sup> August, 2023**

**Webinar on "THz Technologies-Basics and Application View Points"**



IEEE lecture on "THz technologies-Basics and Application viewpoints" was conducted in ITR on 18th August 2023 by IEEE COMMUNICATION AND COMPUTER JOINT SOCIETIES CHAPTER in association with INTEGRATED TEST RANGE, Chandipur.

The lecture was delivered by Dr Subal Kar, former Professor and Head of Institute of Radio Physics and Electronics (IRPE), Calcutta University, Kolkata. Twenty-Five IEEE joint societies' chapter members along with Fourteen Scientists and technocrats of ITR attended the lecture.

He also briefly elaborated upon the application of THz technologies in the defense field. Professor also interacted with the audiences to clarify various questions on the topic.

**Date – 21<sup>st</sup> August, 2023**

**Paper Presentation among IEEE VSSUT Student Branch members**

The paper presentation was conducted in offline mode among IEEE VSSUT Student Branch members. This event continued for 1 week from 21st Aug to 28th Aug 2023 aiming to provide a platform for participants to present their research and innovative ideas in various domains of technology and engineering.



**Date – 1 to 3 September, 2023**

**1st International Conference on Circuits, Power and Intelligent Systems (CCPIS-2023)**

2023 1st International Conference on Circuits, Power and Intelligent Systems (CCPIS) aimed towards exchanging of ideas and knowledge related to circuits, power, and intelligent systems. CCPIS-2023 received 334 paper submissions across all the 6 tracks of the conference from countries across the globe. After a careful selection phase, 129 papers are registered by the authors for final presentation. These papers have been organized into 19 technical sessions concurrently on six tracks for presentation both in online and offline modes simultaneously.

**Date – 2nd September, 2023**

**Interactive Session on “CUBESAT...A New Space Revolution”**

This session was a part of the 1st International conference on CCPIS-2023. The speakers Dr. Goutam Chattopadhyay, NASA Jet Propulsion Laboratory, US and Dr. Chinmoya Saha, Indian Institute of Space Science & Technology, Thiruvananthapuram, INDIA highlighted the background and future scope of CUBESAT in space mission. Also, the objectives of new space mission by CUBESAT are being discussed in the session. Also, the students had got the idea for their pathway towards space science study. More than 100 number of school students attended the session.

**Date – 3<sup>rd</sup> September, 2023**

**IEEE Day 2023 Celebration & Lecture on “Recent Advances in the realm of Artificial Intelligence and Machine Learning”**



IEEE Day 2023 was celebrated by IEEE COMMUNICATION AND COMPUTER JOINT SOCIETIES CHAPTER in association with INTEGRATED TEST RANGE, Chandipur on 03rd September 2023. A lecture on "Recent Advances in the realm of Artificial Intelligence and Machine Learning" was also conducted after celebration. The lecture was delivered by Dr Ajay Kumar Ray, former Professor IIT, Kharagpur. Thirty-Four IEEE joint societies' chapter members along with Twenty-Eight Scientists and technocrats of ITR attended the lecture. Dr AK Ray has discussed how the Artificial Intelligent has evolved over the years starting from 1942. He has also briefed about the recent advancement and future of Artificial Intelligence and Machine Learning. Professor also interacted with the audiences to clarify various questions on the topic.



IEEE Day celebrated with enthusiasm by IEEE members, Scientists and Technologists at ITR



A lecture by Dr Ajay Kumar Ray, former Professor IIT, Kharagpur attended by IEEE members, Scientists and Technologists at ITR

### **Date- 5th September 2023** **Celebration of Teachers Day**

Prof Biswajit Ghosh, Former Professor, Jadavpur University has been invited to address the gathering in virtual platform and he emphasized on the role of teachers in our life. He also highlighted some key points of National Education Policy (NEP)-2020 and advised student community to learn fundamentals, to build confidence, to acquire skills and be ready as per need in industry during study. To make awareness on NEP-2020 among students' community, different events like drawing, photography and essay competition were organized by School/NSS. Prof. A.K.Tripathy, Guest of Honour, stated that teachers can either be excellent teachers or good teachers because there is nothing called a bad teacher. He said that a good teacher should be available for the students and spend time with them. He further stated that a classroom lecture cannot be replaced by any amount of digitalization and virtual teaching. Teaching should be perfect and encompassing and connectivity is extremely important. Repository of knowledge will always be useful in life.

### **Date – 15<sup>th</sup> September, 2023** **Celebration of Engineers' Day & Webinar on “Challenges in realization of TTC network for Deep Space Missions”**

Fifty-Sixth Engineers' Day was celebrated by IEEE COMMUNICATION AND COMPUTER JOINT SOCIETIES CHAPTER in association with INTEGRATED TEST RANGE, Chandipur on 15th September 2023. A webinar lecture on “Challenges in realization of TTC network for deep

space missions” was also conducted after the celebration. The lecture was delivered by Dr Umang M Parikh, Senior Scientist, Associate Project Director-Gaganyaan, Indian Space Research Organisation (ISRO), Bangalore. Thirty-Four IEEE joint societies’ chapter members along with Twenty-Eight Scientists and technocrats of ITR attended the lecture. Dr Umang M discussed more about the requirements of TTC i.e. Telemetry Telecommand Control for Deep Space Mission. He further highlighted upon Chandrayaan, Gaganyaan program and its challenges as undertaken by ISRO. Professor also interacted with the audiences to clarify various questions on the topic.



Guests on Dias during celebration of 56<sup>th</sup> Engineers’ Day and Webinar lecture at ITR

**Date – 28<sup>th</sup> September to 4<sup>th</sup> October, 2023**

**IEEE VSSUT Student Branch conducted “Sparkathon”**

From September 28th to October 4th, 2023, the IEEE VSSUT Student Branch conducted “Sparkathon” an online event for fostering innovation and encouraging participants to present novel ideas to solve pressing issues. This event aimed to engage participants in addressing critical societal challenges through innovative technological solutions.



**Date – 30<sup>th</sup> September**

**IEEE VSSUT Student Branch conducted technical quiz event "Techtrivia"**



On September 30, 2023, in celebration of IEEE Day, an engaging technical quiz event "Techtrivia" was organized at the E-Learning Centre by the IEEE VSSUT Student Branch. With mind-breaking and brain-challenging questions, this event was conducted to enhance the technical knowledge of the participants, while experiencing the thrill and competitive spirit of quizzes.

**Date: 30th September, 2023**

**SEMINAR on "Time Series Forecasting using Optimized Deep Learning and Hybrid Models"**



On September 30, 2023, an insightful seminar was conducted on the occasion of IEEE Day at the E-Learning Centre by the IEEE VSSUT Student Branch. The seminar on the topic of "Time Series Forecasting using Optimized Deep Learning and Hybrid Models" was led by Dr. Sibarama Panigrahi, Assistant Professor at NIT Rourkela and a renowned expert in the field of machine learning, deep learning, and Time series

forecasting.

**Date – 1<sup>st</sup> October, 2023**

**"Binary Battle" a Coding Contest conducted by IEEE VSSUT Student Branch**

On 1st October 2023, a coding contest titled "Binary Battle" was organized in the celebration of IEEE Day by the IEEE VSSUT Student Branch in online mode. The contest aimed to develop a competitive environment for participants to showcase their coding skills and problem-solving abilities

**Date – 4<sup>th</sup> to 5<sup>th</sup> October, 2023**

**The flagship event Hackathon event, "Symposium" of IEEE VSSUT**

The flagship event of IEEE VSSUT, the Hackathon event, "Symposium" was conducted in online mode in celebration of IEEE Day, by the IEEE VSSUT Student Branch. This event took two days from October 4th to October 5th, 2023 aiming to provide a platform for participants to

present their research and innovative ideas in various domains of technology and engineering for solving real world issues.

**Date- 2<sup>nd</sup> October, 2023**

### **Celebration of Swachhta Pakhwada Program**

Swachhta Pakhwada Program was celebrated by IEEE COMMUNICATION AND COMPUTER JOINT SOCIETIES CHAPTER in association with INTEGRATED TEST RANGE, Chandipur on 02nd October 2023. A drive for cleaning of Chandipur sea beach of Bay of Bengal was organised where 10 IEEE members and 63 Scientists and Technologists of ITR, Chandipur had participated.



Team of IEEE Communications and Computer Joint Societies Chapter and other enthusiastic volunteers during cleanliness drive at Chandipur sea-beach of Bay-of-Bengal

**Date- 3rd October, 2023**

### **Event- Observation of The IEEE day is observed with the theme as “Leveraging Technology for a Better Tomorrow”**

Prof (Dr). Chinmoy Kumar Panigrahi, Director, SoEE and Chair, IEEE Kolkata Section Industrial Electronics Society Chapter – Bhubaneswar gave Welcome Address. He highlighted the

Significance IEEE Day Celebration and motivated the students to the member of IEEE. Prof. Byamakesh Nayak, Dean, SoEE appreciated the efforts of IEEE students volunteers and faculty members of the School to form three nos of IEEE Society Chapters i.e. IEEE Kolkata Section Industrial Electronics Society Chapter – Bhubaneswar, IEEE Kolkata Section IEEE Consumer Technology Society Chapter, Bhubaneswar and IEEE Kolkata Section Industrial Applications Society Chapter - Bhubaneswar, Kolkata Section Chapter. Further, he urged School of Electrical Engineering is always taking leading role to form IEEE KIIT Student Branch. At present there are five Student Branch Chapters at KIIT i.e. IEEE Industry Applications Society (IAS), IEEE Industrial Electronics Society (IES), IEEE Power & Energy Society (PES), IEEE Consumer Technology Society (CTS) and IEEE Computational Intelligence Society (CIS).

Dr. Ranjeeta Patel, Chair, IEEE IAS Joint society chapter Bhubaneswar Kolkata section, Secretary, IEEE PELS Joint society chapter Bhubaneswar Kolkata section and advisor of KIIT IEEE IAS and CT SBC presented on different activities organized by different IEEE Students Societies Chapter of KIIT. Prof. Subhra Debdas, Advisor, KIIT IEEE Computational Intelligence Society SBC, Prof. Tapas Roy, SoEE and Prof. Subrat Behera, SoEE, Treasurer, IEEE PELS Joint society chapter Bhubaneswar Kolkata section and staffs, IEEE volunteers, PhD Scholars and graduate students were present.

**Date – 4<sup>th</sup> October, 2023**

### **IEEE VSSUT student branch conducted Artopia, an art contest**



On 4th October 2023, Artopia, an art contest held as part of the IEEE Day celebrations conducted by the IEEE VSSUT Student Branch. This event provided a creative platform for participants to showcase their artistic talents. The event aimed to merge technology and art, providing an imaginative exploration of the technology.

**Date – 5<sup>th</sup> October, 2023**

### **Webinar on “Multimodal Information Processing” for IEEE Day Celebration by WIE affinity group, Bhubaneswar**



The webinar started with the welcome address by Dr. Tripti Swarnkar, Chair, WIE affinity group, Bhubaneswar. The chair introduced Prof. Sriparna Saha, Professor, IIT Patna. Multimodal information processing deals with efficient usage of information available in different modalities like audio, video, text, etc. for solving various task applications of real life.

She discussed how the multimodal information extracted from different modalities, specifically text, and image can help in improving different tasks of dialogue systems like dialogue act classification, complaint mining, cyberbully detection, hate-speech detection, etc. and also summarization. Multimodal information collected from audio tones, facial expressions, and texts is utilized for determining the type of utterance in a multitask setting

where emotion recognition and dialogue act classification tasks are solved simultaneously. Multimodal information collected from videos, images, and texts can also be utilized for generating a summary. In recent years, they have explored several unsupervised approaches for generating multimodal summaries considering multimodal inputs. She discussed how multimodal information can be integrated together to solve different problems of natural language processing like dialogue systems, complaint mining, cyberbully detection, hate-speech detection and summarization.

**Date – 6<sup>th</sup> October, 2023**

### **Talk for IEEE Day Celebration on “Technical Innovation and Science of Brain” at SIT, Bhubaneswar**



The eminent speaker, Dr. Ranjan Kumar Behera, Associate Professor, IIT Patna highlighted the science of brain and its link with the technical innovation. Around 100 number of faculties and students have attended

the session.

**Date –6<sup>th</sup> to 8<sup>th</sup> October, 2023**

### **Achievement by IEEE VSSUT student branch**

IEEE VSSUT student branch members formed Team Quasar and enthusiastically participated in the Paper Presentation Competition during NSSC 2023 at IIT-KGP from 6th to 8th October 2023. Their outstanding performance secured them the 2nd position, marking a significant milestone.

**Date –14<sup>th</sup> October, 2023**

### **One-Day Workshop on “Beginner Boot Camp on PSpice Software”**

The speaker of the session, Prof. Rama Prasad Panda, Dean (Dean (Administration & Student Affairs), SIT Bhubaneswar explained the process of circuit analysis through simulation tool. Around 45 students attended the workshop.

**Date –26<sup>th</sup> October, 2023**

### **WEBINAR on "How to start research work as an undergraduate student"**

The IEEE VSSUT Student Branch successfully organized a webinar on October 26, 2023, titled "How to Start a Research Work as an Undergraduate." The event aimed to provide valuable insights into instilling research endeavours as an undergraduate student, featuring a



distinguished guest speaker, Dr. Aditya Kumar Sahu. The webinar featured Dr. Sahu, an esteemed professor at Amrita Vishwa Vidyapeetham, School of Computing, Amaravati, and one of the top 2% of scientists globally according to Stanford University.

Dr. Sahu shared his wealth of experience and knowledge, guiding participants on various aspects of starting research work as an undergraduate student.

**Date –11<sup>th</sup> November, 2023**

**Invited Talk on “EV Maintenance & Services” in Virtual Mode at SIT, Bhubaneswar**

The eminent speaker **Mr. Sameer Jindal, Director, MG Motor Pvt. Ltd.** explains the basic constructional features of EV. The engineering approach for the connection of all major parts are being explained by the distinguished speaker. The basic skills and knowledge which are required for the maintenance and service of EV are also being discussed during the session. More than 100 students have attended the session.

**Date- 17th November, 2023**

**WIE Panel Discussion Session: The Role of Oncogenomics in Advancing Cancer Care**



#### **Panelists**

1. Dr. Debdoot Sheet, Assistant Professor, Dept of Electrical Engineering IIT Kharagpur.
2. Dr. Soumya Surath Panda, Professor, Department of Medical Oncology, IMS & SUM Hospital (SOA Deemed to be University)
3. Dr. Prasan Kumar Sahoo, Director, ABC Lab, Dept of Computer Science and Information Engineering, Chang Gung University
4. Dr. Sejal Shah, Associate Professor & Head Department of Bioinformatics
5. Dr. Shivangi Harankhedka, Associate Professor, Department of Hematology, IMS and SUM hospital, Bhubaneswar

#### **Moderator**

Dr. Anjali Mohapatra, HOD, CSE, IIIT Bhubaneswar

**Topic of Discussion:** The panel discussion focused on exploring the pivotal role of oncogenomics in advancing the field of cancer care, emphasizing its impact on diagnosis, treatment, and personalized medicine.

**Key Points Discussed:**

**1. Genomic Profiling in Cancer Diagnosis:**

- The panellists highlighted the significance of genomic profiling in identifying specific genetic alterations associated with different types of cancer.
- Discussion on how advancements in technology have improved the accuracy and efficiency of genomic testing.

**2. Precision Medicine and Targeted Therapies:**

- Insights into the development of targeted therapies based on oncogenomic data, allowing for more effective and tailored treatment strategies.
- Examples of success stories in precision medicine, showcasing improved patient outcomes.

**3. Challenges in Oncogenomics Implementation:**

- The panellists discussed challenges such as data interpretation, standardization of testing methodologies, and the need for broader accessibility to genomic testing.
- Addressed ethical considerations and patient consent in genomic testing.

**Audience Interaction:**

- Engaged discussions from the audience on the potential of oncogenomics in rare cancers and its role in predicting treatment response.
- Questions regarding the integration of oncogenomic data into clinical practice and its implications for healthcare systems.

**Highlights:**

- Agreement among panellists on the transformative potential of oncogenomics in individualized cancer treatment.
- A consensus on the importance of collaborative efforts between researchers, clinicians, and industry for further advancements.

**Challenges and Solutions:**

- Acknowledgment of the need for standardized guidelines and protocols in oncogenomics.
- Discussion on ongoing research addressing challenges and proposing potential solutions for widespread implementation.

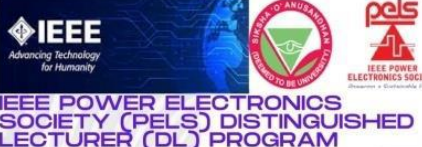


### Concluding Remarks:

- Prof. Anjali Mohapatra emphasized the panel's shared optimism for the future of cancer care with the integration of oncogenomics.
- Encouragement for continued research, collaboration, and technological advancements to enhance oncogenomic applications.


**Date- 17th November, 2023**

### Distinguished Lectures Session



**IEEE POWER ELECTRONICS SOCIETY (PELS) DISTINGUISHED LECTURER (DL) PROGRAM**

A Futuristic Medium-Voltage Grid-Connected Multi-Port Public Electric-Vehicle Ultra-Fast Charging-Station with G2V and V2G Capability



**PROF. SANJIB KUMAR PANDA**

Sanjib Kumar Panda, Associate Professor of the Department of Electrical and Computer Engineering, National University of Singapore, has been appointed as an IEEE Power Electronics Society (PELS) Distinguished Lecturer (DL). The IEEE Distinguished Lecturers (DL) Program is one of the most exciting offerings available to the IEEE Society Chapters. Each year, the IEEE Power Electronics Society (PELS) selects a few distinguished members of the profession as Distinguished Lecturer. This not only celebrates and honours their high achievements in the field of power electronics but also supports PELS chapter and student branch activities by providing high-profile speakers for local chapter/section events. Prof. Panda will serve as the IEEE PELS Distinguished Lecturer for a two-year term, from 2022 to 2023. He has pioneered and is recognized in the field of high-performance control of power electronic converters and motor drive systems.

**VENUE/DATE/TIME**  
ITER, Siksha 'O' Anusandhan  
Deemed to be University,  
Bhubaneswar, India  
E-Block,  
Room no.E-013  
GND FLOOR  
17TH NOV 2023  
Time: 4.30 PM-06.30 PM  
Coordinated by:  
Prof. Renu Sharma(SMIEEE),  
renusharma@soa.ac.in



A distinguished lecture program, under the aegis of the IEEE PELS of CH10889 Kolkata Section Chapter, was successfully organized by Dept of Electrical Engineering at Siksha O Anusandhan, Deemed to University and School of Electrical Engineering, KIIT Deemed to be University, Bhubaneswar on 17th Nov 2023 .Dr. Sanjib Kumar Panda, Associate Professor, Department of Electrical and Computer Engineering, National University of Singapore delivered the scintillating talk of the distinguished lecture on "A Futuristic Medium-Voltage Grid-Connected Multi-Port Public Electric-Vehicle Ultra-Fast Charging-Station with G2V and V2G capability". Dr. Panda emphasized upon the novelty of fast charging from medium voltage grid connected multiple type of plugged in electric vehicles. Results of Hardware In Loop (HIL) from the Real Time Digital Simulator were exhibited in which bidirectional flow of power (G2V and V2G) was evaluated. Dr. Sanjib Kumar Panda visited various laboratories of Dept. of Electrical Engineering ,Faculty of Engineering, ITER,SOA DU in the afternoon and expressed his satisfaction for the state of art Opal-RT Laboratory . Prof. Panda also visited SOEE, Campus-3, KIIT DU in morning and expressed satisfaction for the fact that State of the Art power electronic test benches are already in vogue. The undergraduate, post graduate, doctoral students and faculty members attended the lecture with rapt attention at both the Universities. Dr. Ranjeeta Patel, the secretary of the IEEE PELS of CH10889 Kolkata Section Chapter and Prof. Renu Sharma ,Senior member IEEE Power & Energy Society organized the program professors Prof. Byamakesh Nayak, Prof. Chinmoy Kumar Swain ,Dr. Manoj K Debnath and Dr. Binod Kumar Sahu were also present..

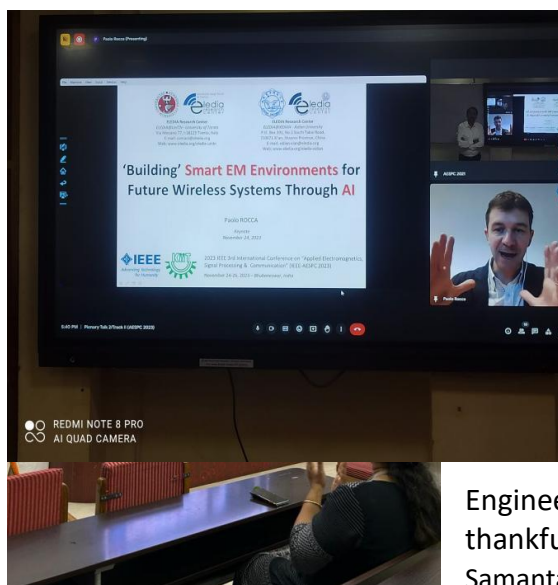
**Date- 18th November, 2023**

**Interactive Session with student participants in virtual mode.**

Ashok K Panda, Course Control Officer, Faculty of Electrical & Mechanical Engineering, Military College of Electronics and Mechanical Engineering (MCEME) Secunderabad highlighted on smart material and collaborative projects on Defence Technology. Dr Subhra Debdas, Vice Chair, Technical Activities also interacted the students with the projects on IoT. All participants made participatory discussion with Speaker regarding career perspectives in smart illumination and Smart Materials, AI & ML and emerging technologies. Participation certificates were distributed to all participants followed by submission of feedback form and all appreciated the session.

**Date- 18th November, 2023**

**IEEE 3rd International Conference on Applied Electromagnetics, Signal Processing and Communication, during 24-26th November, 2023, organized by School of Electronics Engineering, KIIT Deemed to be University, Bhubaneswar**



It was technically sponsored by IEEE Kolkata Section, IEEE Bhubaneswar Sub-Section IEEE KIIT Student Branch, IEEE KIIT AP Society Student Branch, Bhubaneswar and IEEE AP/MTT Kolkata Chapter. Inaugural function was graced by our VC Prof Saranjit Singh Sir, Registrar, Prof Jnyana Ranjan Mohanty, Dean SOEE, Prof. Suprava Patnaik, Prof. Debatosh Guha, IEEE Fellow, Director Academic, Prof A.K.Ray, TPC Chair, Prof Amalendu Patnaik, Prof. S.R. Samantaray, IIT Bhubaneswar and Conference Chair, Prof. Sudhakar Sahu, School of Electronics

Engineering, KIIT DU Bhubaneswar. We are very much thankful to our Founder KIIT and KISS, Prof. Achyuta Samanta Sir for his immense inspiration and providing world class platform for hosting IEEE international conference. Dept thanks to Prof Jyoti R. Panda, Finance Chair, Dr. Akshaya kumar Pati, TPC member and Dr. Deepak Kumar Rout, TPC members for the enormous support to make the conference grand success. School of Electronics Engineering, KIIT Deemed to be University, Bhubaneswar organized IEEE 3rd International Conference on Applied Electromagnetics, Signal Processing and Communication, during 24-26th November, 2023. It was technically sponsored by IEEE Kolkata Section, IEEE Bhubaneswar Sub-Section IEEE KIIT Student Branch, IEEE KIIT AP Society

Student Branch, Bhubaneswar and IEEE AP/MTT Kolkata Chapter. Inaugural function was attended by our VC Prof Saranjit Singh Sir, Registrar, Prof Jnyana Ranjan Mohanty , Dean SOEE, Prof. Suprava Patnaik , Prof. Debatosh Guha, IEEE Fellow, Director Academic, Prof A.K.Ray, TPC Chair, Prof Amalendu Patnaik, Prof. S.R. Samantaray, IIT Bhubaneswar and Conference Chair, Prof. Sudhakar Sahu, School of Electronics Engineering, KIIT DU Bhubaneswar. Prof. Debatosh Guha delivered the keynote talk on "Creativity and Innovation: Challenges in Scientific Research". Prof. Paolo Rocca, IEEE Fellow, University of Trento, Italy, delivered the talk on 'Building' Smart EM Environments for Future Wireless Communication Systems Through AI. Prof. Amalendu Patnaik, Professor, Electronics & Communication Engineering Dept, IIT Roorkee delivered the keynote talk on "Metaheuristics in Antenna Engineering: why and how ?" Dr. Hemant Rath, Principal Scientist at TCS Research Bhubaneswar, delivered the keynote talk on "Moving Towards 6G : Transformation and Realization". Dr. Ajit Kumar Panda. Director, VVDN Technologies, Bhubaneswar, Dr. Koushik Dutta, Chair IEEE AP/MTT Kolkata Chapter, Dr. Kailash Chandra Ray, IIT Patna, Dr. Jagannath Malik, IIT Patna also delivered their talk in the conference.



We are very much thankful to our Founder KIIT and KISS, Prof. Achyuta Samanta Sir for his immense inspiration and providing world class platform for hosting IEEE international conference. Dept thanks to Prof Jyoti R. Panda, Finance Chair, Dr. Akshaya kumar Pati, TPC member and Dr. Deepak Kumar Rout, TPC members, Prof. Sasmita Pahadsingh, Prof. Kananbala Roy, Prof. Sarita Nanda, Associate Dean, Prof. Swati Swayamsiddha for the enormous support to make the conference grand success.







**Date-25th November, 2023**

### **Tech Talk on Capstone Project**

The talk was delivered by Dr. Krishna D. Kumar, Professor of Aerospace Engineering, Department of Aerospace Engineering, Ryerson University, Canada and Founder & President, iSAC Systems Inc. Toronto. Dr. Kumar focussed on Artificial Intelligence-based Predictive Analytics, Big Data and Internet-of-things (IoT) to diverse sectors like Transportation, Aerospace, Manufacturing, Finance, Environmental and Waste Management. He elaborated on Industry Trends, how the industry is changing at fast pace, viz. from industry 1.0 (mechanical manufacturing) to industry 4.0 (digitization). In today's world, SMART technology like AI, Machine Learning, Cloud Computing, IOT, Data Centre, etc. is the way forward. IoT actuator and sensor are used as part of industry and middle is processor with AI capability. 2Pcube is a product from iSAC that works on AI that can improve profitability and performance. Real time risk management, real time storage, real time analysis and real time data messaging are some of the functions of the device. Examples of AI tools and libraries like TensorFlow, Spark, Kafka etc. were highlighted which are used in the industry. For manufacturing, 2P cube consists of features like maintenance, cost reduction, productivity, forecasting, machine uptime. The big data Hadoop helps in improvement in the performance of the system also, he remarked. AI is being integrated with and deployed into a variety of sectors such as finance, national security, health care, criminal justice, transportation, and smart cities, added Dr. Kumar.

**Date – 29<sup>th</sup> November, 2023**

### **Webinar on “Frequency Selective Surfaces & Metasurfaces for Modern and Futuristic Wireless Technologies”**

A Webinar was organised by IEEE COMMUNICATION AND COMPUTER JOINT SOCIETIES CHAPTER in association with INTEGRATED TEST RANGE, Chandipur on 29th November 2023 at PMA Hall, New Range Center, ITR. Talk was delivered on “Frequency Selective Surfaces & Metasurfaces for Modern and Futuristic Wireless Technologies” by Dr Surajit Kundu, Assistant Professor, Department of Electronics Engineering, NIT, Jamshedpur on 29th Nov 2023. Twenty-Seven IEEE joint societies' chapter members along with Fifteen Scientists and technocrats of ITR attended the lecture. Dr Kundu has discussed in detail about different

approaches of selecting frequency selective surfaces (FSS) and metasurfaces for defence applications. He further elaborated on futuristic wireless technologies using FSS and metasurfaces. Professor also interacted with the audiences to clarify various questions on the topic.

**Date- 10th to 13th December 2023**

**“3rd IEEE International Conference on Smart Technologies for Power, Energy and Control (STPEC 2023)**

STPEC 23 has been organized by the School of Electrical Engineering, KIIT DU from 10th to 13th December 2023 followed by Missile park Exhibition by DRDO ITR Chandipur, Balasore and is financially sponsored by IEEE Industry Applications Society (IAS) and IEEE Power Electronics Society (PELS) & technically sponsored by IEEE Industrial Electronics Society (IES), IEEE IES Bhubaneswar Subsection Kolkata Joint Chapter and IEEE Bhubaneswar Subsection.

Welcome Address is given by Prof. Chinmoy Kumar Panigrahi, Director, SoEE, KIIT-DU, Bhubaneswar & General Chair, STPEC 2023. Prof. Subhansu Ranjan Samantaray, Professor and Head, School of Electrical Science, IIT Bhubaneswar, Honorary Chair, STPEC 2023 addressed the gathering about the benefits and scope being a IEEE student member. He discussed on recent development in area of Power Electronics and Energy. Prof. Akshay Kumar Rathore, IEEE Fellow, Professor, SIT, Singapore discussed about challenges and research in the field of electric vehicles, Government plans, technology, use of wireless charger and scope of renewable energy and use of power converters. Prof. Sri Niwas Singh, Atal Bihari Vajpayee- Indian Institute of Information Technology and Management, Gwalior, India discussed scope of renewable energy and need of energy awareness, HVDC FACTS. Prof. Saranjit Singh, Vice Chancellor, KIIT-DU Bhubaneswar & Patron, STPEC 2023 urged the students to be the changemakers, move beyond placements and be an employment generator than an employment seeker. He asked the students to make use of the multidisciplinary ecosystem opportunity available at KIIT. Prof. Bijay Ketan Panigrahi, IEEE Fellow, Professor, IIT, Delhi & General Chair, STPEC 2023 gave overall view about modern research area in power electronics and energy sector. Prof. Lalit Goel, NTU Singapore, Guest of Honour shared his views emphasizing on hardware projects in the field of power electronics. STPEC 23 Proceedings Proceedings was released in the august presence of all the dignitaries

Prof. Achyuta Samanta, Hon'ble Founder, KIIT and KISS, Chief Patron, STPEC 2023, Chief Guest reflected on the remarkable journey of both KIIT and KISS, expressing gratitude for the collective efforts of staff, students, and teachers that have propelled the institutions to great heights. He emphasized the commitment to further advancements in education and nation-building. He welcomed all the dignitaries on the dais and conveyed his wishes for the success of conference. Vote of Thanks was given by Dr. Ranjeeta Patel, KIIT-DU, Bhubaneswar General Chair, STPEC 2023

During valedictory function, Prof. Byamakesh Nayak, Dean, SoEE, KIIT-DU, Bhubaneswar & Technical Program Chair, STPEC 2023 welcomed all the dignitaries on the dais and off the dais

as well. Prof. Pradyumn Chaturvedi, VNIT Nagpur, General Chair, STPEC 2023 thanked all the authors for their contributions. Prof. Vinod Khadkikar, IEEE Fellow, Khalifa University, Abu Dhabi, UAE, General Chair, STPEC 2023 gave his views on various recent technologies and developments in the area of power electronics. Prof. Jnyana Ranjan Mohanty, Registrar, KIIT-DU, Bhubaneswar & Co-patron, STPEC 2023 highlighted the importance of KIIT group of institutions and the Founder's vision of facilitating underprivileged sections of the society to achieve development. Dr. Brij N. Singh, IEEE Fellow, John Deere, USA, Guest of Honour shared that the students are at the right place in the right time since there is a lot of potential in the rural and agribusiness sector and growth in the sector is crucial for the overall development. Dr. Gourab Majumdar, Senior Fellow, Power Device Works, Mitsubishi Electric Corporation, Japan, Chief Guest asked the students that as matured individuals, they should treat this university as a nurturing ground for ideas. These ideas become powerful with commitment and action from the students side. Vote of Thanks is given by Prof Sarat Chandra Swain, Professor, SoEE, KIIT-DU, Bhubaneswar & Technical Program Co-Chair, STPEC 2023

**Date – 11<sup>th</sup> December, 2023**

## **Tech Talk on “Computational Intelligence Techniques for Power Engineering Applications”**



**SOA I SIKSHA 'O' ANUSANDHAN**  
DEPARTMENT OF ELECTRICAL ENGINEERING  
ITER | FACULTY OF ENGINEERING & TECHNOLOGY  
BHUBANESWAR

**IEEE Distinguished Speakers  
Lectures 2023-24**



Jointly Organised by  
**IEEE ITER Student Chapter  
&  
IEEE Bhubaneswar Sub Section**

**11TH DECEMBER 2023@11.00AM - 12.30 PM**

**Computational Intelligence  
Techniques for Power  
Engineering Applications**



**Bijaya Ketan Panigrahi**  
FNAE, FNASc, Fellow AAIA  
Founder Head Centre for Automotive Research and Tribology  
Department of Electrical Engineering,  
Indian Institute of Technology (IIT) Delhi, India.

**Venue : Department of Electrical Engineering,  
Seminar Hall, Room No : E 013**

CONVENOR  
PROF. RENU SHARMA, ADDL. DEAN SA  
renusharma@soa.ac.in  
7377068897

**Prof. Bijaya Ketan Panigrahi FNAE, FNASc,  
Fellow AAIA**

Founder Head, Center for Automotive Research and Tribology Department of Electrical Engineering Indian Institute of Technology (IIT) Delhi, India delivered a talk on “Computational Intelligence Techniques for Power Engineering Applications” on 11th December 2023.






**Date – 11<sup>th</sup> December, 2023**


**Tech Talk on “Microgrids: Configurations, Control, Synchronization, And Application”**

SOA | SIKSHA 'O' ANUSANDHAN  
DEPARTMENT OF ELECTRICAL ENGINEERING  
ITER | FACULTY OF ENGINEERING & TECHNOLOGY  
BHUBANESWAR

IEEE PELS KOLKATA SECTION-BHUBANESWAR JOINT CHAPTER & ITER  
IEEE STUDENT BRANCH

Jointly Organized  
IEEE PELS REGIONAL DISTINGUISHED LECTURES 2023-2024  
11TH DECEMBER 2023 @ 4.00PM - 5.30PM  
TOPIC: MICROGRIDS: CONFIGURATIONS, CONTROL,  
SYNCHRONIZATION, AND APPLICATIONS



Bhim Singh  
IIT Delhi (India)  
BSEB National Science Chair & Emeritus  
Professor  
FNAE, FNA, FNAS, FAS, FTWAS, FIEEE,  
FRET, FIETE, FIE (I), C. ENGR  
Department of Electrical Engineering  
Indian Institute of Technology Delhi  
New Delhi-110016-India

Venue: Department of Electrical Engineering,  
Seminar Hall, Room No: E013

CONVENOR  
PROF. RENU SHARMA, ADDL DEAN SA  
renusharma@soa.ac.in  
7377068897

Title of the talk : Microgrids: Configurations, Control, Synchronization, And Application


Date: 11th December 2023 Time: 4.00 PM -5.30 PM

Venue: Department of Electrical Engineering Seminar Hall, Room No: E -013


No. of participants: 70

**Date – 13<sup>th</sup> December, 2023**

**Tech Talk on “A Two- Layer Energy Management System for Microgrids with Hybrid Energy Storage Considering Degradation Costs”**



**A Two-Layer Energy Management System for Microgrids With Hybrid Energy Storage Considering Degradation Costs**



**Prof. Lalit Goel**  
 Director, Renewable Engineering Programme  
 Professor, School of Electrical & Electronic Engineering  
 Jointly Organized by  
 IEEE ITER Student Chapter &  
 IEEE Bhubaneswar Sub Section

13TH DECEMBER 2023  
 Time : 2:30PM - 4:30PM

Venue : Department of Electrical Engineering  
 Room No. - E 013  
 Faculty of Engineering & Technology, ITER  
 Siksha 'O' Anusandhan  
 Deemed to be University  
 Bhubaneswar

CONVENOR  
 PROF. RENU SHARMA, ADDL DEAN SA  
 renusharma@sos.ac.in  
 7377068897

Date: 13th December 2023 Time: 2.30 PM -4.30 PM  
 Venue: Department of Electrical Engineering, Room No: E-013  
 Faculty of Engineering & Technology, ITER Siksha 'O' Anusandhan  
 Deemed to be University Bhubaneswar  
 No. of participants: 50

**Date – 14<sup>th</sup> December, 2023**  
**Tech Talk on “Electric Vehicle to Vehicle (V2V) Power Transfer”**



**Electric Vehicle to Vehicle (V2V) Power Transfer**



**Prof. Vinod Khadikar**  
 Professor  
 IEEE Fellow  
 Co-Editor-in-Chief, IEEE Trans on Industrial Electronics  
 Distinguished Lecturer – IEEE IAS

Jointly Organized by  
 IEEE ITER Student Chapter &  
 IEEE Bhubaneswar Sub Section

14TH DECEMBER 2023  
 Time : 4:00PM - 05:00PM

Venue : Department of Electrical Engineering  
 Room No. - E 013  
 Faculty of Engineering & Technology, ITER  
 Siksha 'O' Anusandhan  
 Deemed to be University  
 Bhubaneswar

CONVENOR  
 PROF. RENU SHARMA, ADDL DEAN SA  
 renusharma@sos.ac.in  
 7377068897

Date: 14th December 2023 Time: 4.00 PM – 5.00 PM  
 Venue: Department of Electrical Engineering, Room No: E 013  
 Faculty of Engineering & Technology, ITER Siksha 'O' Anusandhan  
 Deemed to be University Bhubaneswar  
 No. of participants: 50

**Date – 14<sup>th</sup> December, 2023**  
**Celebration of “National Energy Conservation Day”**



The “National Energy Conservation Day” is observed on Dt. 14th Dec 2023 by organizing Poster Design Competition and a Technical Talk. Around nine

(09) students participated in the events and designed very well described poster on topic “Go Smart.. Save Energy”. The winners are awarded with cash prizes. Besides, a Technical Talk on “Implementation of Integrated Energy Efficiency and Demand Side Management Model in Educational Institute” was conducted. The speaker of the session was Mr. Bibhu Charan Swain, Sr. Consultant, Power Tech Consultants. Around 90 students attended the session.

## Date – 15<sup>th</sup> December, 2023 Tech Talk on “Vehicles for Agriculture”

SOA | SIKSHA 'O' ANUSANDHAN  
DEPARTMENT OF ELECTRICAL ENGINEERING  
IITR | FACULTY OF ENGINEERING & TECHNOLOGY  
Bhubaneswar

IEEE PELS KOLKATA SECTION-BHUBANESWAR JOINT CHAPTER & IITR  
IEEE STUDENT BRANCH

IEEE PELS DISTINGUISHED LECTURES 2023-24  
15TH DECEMBER 2023 @ 10:00AM-12:00PM IST

Venue: Department of Electrical Engineering,  
Seminar Hall, Room No. E.013

**Dr. Bibhu Charan Swain**  
Sr. Consultant, Power Tech Consultants

**Dr. Bibhu Charan Swain**  
Sr. Consultant, Power Tech Consultants

In this lecture a broad review of vehicles for farming operations will be given starting from design to the harvesting, Agriculture and farming activities that have significant use of power electronics will be discussed such as Electric Energy Harvester for seedling operation. This presentation will cover how power electronics supports, regulate system to exactly apply pre-irrigation such as fertigation, precision Agriculture, etc. Also it is to make awareness that power electronics professionals could make increased productivity in that by 2025 near 1.5 billion small farm, smaller, and an efficient transportation system. This talk will also cover how vehicle electrification enables more, healthier, farms, and business to off and on-duty energy vehicles that were not cost and space-effective possible without EV and fuel electric.

CONVENOR  
PROF. RENU SHARMA  
ADDL. DEAN SA  
renusharma@soa.ac.in  
7337048857

Title of the Talk : “Vehicles for Agriculture”  
Date: 15th December 2023 Time: 10:00 AM – 12:00 PM  
Venue: Department of Electrical Engineering Seminar Hall, Room No: E-013  
No. of participants: 70

## Date – 15<sup>th</sup> December, 2023 Exclusive Talk on “ISRO: India’s Most Successful Startup” Date: 15th Dec 2023



She has co-authored a book, entitled as “ISRO: A Personal History” with Late. Dr. Ramabhadran Aravamudan (was an Indian space scientist and engineer who was associated with the Indian space programme from its initial days in 1962).

The eminent speaker introduced the background of the book and highlighted the scenario of ISRO in early days. Around 80 students attended the session.

## **Date – 15<sup>th</sup> December, 2023**

### **4th Annual General body Meeting**

Fourth Annual General Body (AGB) meeting of IEEE Computer and Communication Joint Societies Chapter, Chandipur was held at KONARK GH, DRDO, Chandipur on 15th Dec 2023 at 1430 Hrs. Chair of the Chapter and Director ITR, Chandipur, Shri Hare Krishna Ratha, Scientist-H (Outstanding Scientist) welcomed all and highlighted the different activities performed by the Joint Chapter during the year 2023. Annual Report for the year 2023 was presented by chapter secretary, Dr Pravakar Mallick & financial report was presented by Shri P Santosh Kumar, Treasurer of the Joint societies chapter. AGB also approved the office bearers and executive committee members as elected through SLATE 2024. The new committee took over the charge under the leadership of chair, Shri Gautam Sadhukhan, Scientist-G, ITR.



Members of Communications and Computer Joint Societies Chapter at Konark Guest House, DRDO, Chandipur



**December 19, 2023**

**Participation in Smart India Hackathon 2023 by VSSUT Burla students**



The members of the IEEE VSSUT Student Branch exhibited true passion for innovation and earned a well-deserved spot in the Smart India Hackathon 2023 Grand Finale. Their remarkable achievement on the national stage is truly inspiring.

**Date- 21<sup>st</sup> December 2023**

**Webinar on “WOMEN EMPOWERMENT AND WIE”**



The webinar started with the welcome address by Dr. Tripti Swarnkar, Chair, WIE affinity group, Bhubaneswar. The chair introduced Dr. CELIA SEAHNAZ, 2023-2024 IEEE WIE Committee Chair. She discussed about the prospects and the opportunities of IEEE and WIE like:

1. IEEE board meeting series.
2. IEEE WIE member engagement International women’s day
3. Inaugural IEEE WIE day 2023



4. Diversity programs and partnership with YP: Engagement of WIE in climate change assessment and sustainability.

5. IEEE WIE climate Tech initiative

## **Date-30th December 2023 (Saturday)**

### **SLATE EC Meeting**

EC meeting for SLATE was held at 7:30 pm on 30th December 2023 (Saturday) on online mode. SLATE discussed the nominations of the EC for the year 2024. Prof A K Tripathy, Chair SLATE presided over the meeting.

The Chairman Slate committee for selecting office bearers for IEEE Bhubaneswar subsection has announced the names of the office bearers of 2024 in the EC meeting.

The proposed office bearers for IEEE Bhubaneswar subsection for 2024 is as follows.

#### **Office bearers: 2024**

Chair : **Shri Hare Krishna Ratha, ITR - Chandipur**

**Proposed: S R Samantaray, Seconded : D P Dogra**

Vice-Chair : **Prof Chinmoy Kumar Panigrahi, KIIT Univeristy**

**Proposed: Ram Prasad Panda, Seconded : Sujata Chakravarty**

Secretary : **Prof C N Bhende, IIT Bhubaneswar**

**Proposed: Tripti Swarnkar, Seconded : Pradyut Biswal**

Joint Secretary : **Prof. Renu Sharma, SOA Univeristy**

**Proposed: Ranjeeta Patel, Seconded : Umamani Subudhi**

Treasurer : **Prof D P Dogra, IIT Bhubaneswar**

**Proposed: P K Meher, Seconded : Debasmita Pradhan**

#### **Members:**

Prof S R Samantaray (Immediate Past Chair)

Prof A K Tripathy (Past Chair)

Prof. Ganapati Panda (Past Chair)

**Prof. Vijay Shankar Pasupureddi, IIT Bhubaneswar (Chair - Technical Activity)**

Prof. Harish Sahoo, VSSUT Burla (Vice-Chair, Technical Activity)

Prof Pradyut Biswal, IIIT Bhubaneswar (Vice-Chair, Technical Activity)

Prof. Sujata Chakravarty, CUTM (Vice-Chair, Technical Activity)

Dr Debadutta Swain, IIT Bhubaneswar, (Vice-Chair, Technical Activity)

**Prof. Brojo Kishore Mishra, NIST Berhampur (Chair, Student Activities)**

Dr. Pratap Ranjan Mohanty, SIT Bhubaneswar (Vice-Chair, Student Activities)

Dr Manohar Mishra, SOA Univeristy (Vice-Chair, Student Activities)

Dr Sakuntala Mohapatra, TRIDENT, (Vice-Chair, Student Activities)

**Prof. Sujata Chakravarty, CUTM, Bhubaneswar (Chair, Women in Engineering)**

Dr. Umanami Subudhi, (Vice Chair, Women in Engineering)

Dr. Devashree Tripathy, IIT Bhubaneswar (Vice-Chair, Women in Engineering)

Dr. Ranjeeta Patel, KIIT DU, Bhubaneswar (Vice-Chair, Women in Engineering)

Dr Srabani Ghosh, ITR Chandipur , (Vice-Chair, Women in Engineering)

**Prof. Umamani Subuidhi, IIIT Bhubaneswar (Chair, Newsletter committee)**

Prof. Renu Sharma, SOA Univeristy (Vice-Chair, Newsletter committee)

Dr. Bharati Mishra, IIIT Bhubaneswar (Vice-Chair, Newsletter committee)

**Prof Chinmay Panigrahi, KIIT DU, Bhubaneswar (Chair, Membership Drive)**

Prof Ramprasad Panda, SIT, Bhubaneswar (Vice-Chair, Membership Drive)

Dr Manoj Debnath, SOA University (Vice-Chair, Membership Drive)

Dr. Niranjana Ray, KIIT DU, Bhubaneswar (Vice-Chair, Membership Drive)

Dr Pravakar Mallick, ITR Chandipur (Vice-Chair, Membership Drive)

**Dr Hemanta Rath, TCS Bhubaneswar (Chair, Industry Relations)**

Shri P. K. Patnaik, OPTCL, Bhubaneswar (Vice-Chair, Industry Relations)

**Prof L N Tripathy, OTR Bhubaneswar (Chair, Social Outreach)**

Prof Priyadarshi Kanungo, CGU, Bhubaneswar (Chair, Social Outreach)

Prof Sudhakar Sahoo, KIIT DU, Bhubaneswar (Vice-Chair, Social Outreach)

Prof R N Satpathy, Sri Sri University, (Chair, Women in Engineering)

#### **Ex Officio Members:**

Chair, PES Society Chapter- Ex Officio

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

Chair, Industrial Application Society Chapter-Ex Officio

Chair, Women-in-Engineering (WIE)- Ex Officio

Chair-Young Affinity Group- Ex Officio

#### **Special Invitees:**

Prof Ashwini Kumar Nanda, FIEEE, IIT Bhubaneswar

Prof P K Meher, CVRGU

Prof P K Nanda, SOA University

Sri B. B. Mehta, Director - OPTCL, Bhubaneswar

**Date- 13th January 2024**  
**AGM 2023**



The meeting was attended by 31 members. Following are the meeting deliberations/resolutions:

#### **1. 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 2023 and thanked all the Members for attending the meeting. He

wished Happy New Year to all.

#### **2. Agenda No. 2: Report by the Secretary on the activities during the year 2022**

Dr. Debi Prosad Dogra, IEEE Bhubaneswar Subsection Secretary presented the detailed annual report on the activities, financial report, membership status, awards and other

achievements of IEEE Bhubaneswar Subsection for the year 2023. Following are important highlights of the report:

- a. Included the update on all society chapters: PES Chapter, PELS Chapter, Consumer Technology Society Chapter, Communication and Computer Science Joint Societies Chapter, Industrial Electronics Society Chapter, and WIE, AG.
- b. All Society Chapter Chairs presented the annual activities performed by the respective chapter during the year of 2023.

### **3. Agenda No. 3: Annual Awards for the year 2023**

- a. Prof. Sujata Chakravarty, CUTM Bhubaneswar has been awarded as the “Best Women Volunteer” of IEEE Bhubaneswar Subsection for the year 2023.
- b. Dr. Debi Prosad Dogra, IIT Bhubaneswar has been awarded as the “Best Volunteer” of IEEE Bhubaneswar Subsection for the year 2023.
- c. Mr. Ranjan Kumar, PhD Scholar of IIT Bhubaneswar has been awarded as the “Best Student Volunteer” of IEEE Bhubaneswar Subsection for the year 2023.
- d. WIE-AG has been awarded as the “Best Chapter” of IEEE Bhubaneswar Subsection for the year 2023.
- e. KIIT Student Branch has been awarded as the “Best Student Branch” of IEEE Bhubaneswar Subsection.

### **4. 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 2023 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 2024 has been finalized.

Members were nominated by the IEEE Bhubaneswar Subsection to be part of the OB. All members agreed to the proposal. EXECOM-2024 was selected by Shri H K Rath, New Chair, IEEE Bhubaneswar Subsection. Shri Rath elected EXECOM-2024 which is presented at the end of the Newsletter.

At the end, the newly elected Chair – IEEE Bhubaneswar Subsection Shri H K Rath thanked all the members for their trust and faith on the EC and expressed his mission 2024 for the growth of IEEE Bhubaneswar Subsection.

The SLATE chair advised all chapter chairs to conduct the election/selection of EC members for the respective chapter in due course of time.

### **5. Vote of Thanks**

Dr Debi Prosad Dogra proposed the vote of thanks. He thanked all the members of IEEE Bhubaneswar Subsection for their hard work throughout the year 2023 and helped the EC 2023 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 2024.

**Date- 13th January,2024**

**IEEE KIIT Student Branch (STB15681) receives “Best Student Chapter” 2023**

IEEE Bhubaneswar Subsection Honours IEEE KIIT Student Branch Chapter as “Best Student Chapter” of the Subsection for the activities during the year 2023. IEEE KIIT Students Branch comprises of IEEE Industry Applications Society Student Branch Chapter in the Kolkata Section (MEMIA034), IEEE Kalinga Institute of Industrial Technology IEEE Antenna Propagation Society Student Branch Chapter in the Kolkata Section (AP-03 (SBC15681), IEEE Kalinga Institute of Industrial Technology IEEE Consumer Technology Society Student Branch Chapter in the Kolkata Section (MEMCT008), IEEE Kalinga Institute of Industrial Technology IEEE Computational Intelligence Society Student Branch Chapter in the Kolkata Section, IEEE Kalinga Institute of Industrial Technology IEEE Industrial Electronics Society Student Branch Chapter in the Kolkata Section(IE13) and IEEE Kalinga Institute of Industrial Technology IEEE Power and Energy Society Student Branch Chapter in the Kolkata Section(PE31).

**Date – 14<sup>th</sup> January 2024**

**TREASURE HUNT at SIT, Bhubaneswar**

Fourteen (14) teams, each comprising of three/four members participated in the event. The competition held in three rounds to find the winners. The event was based on the decoding of clues to reach the destination.

**Date – 17<sup>th</sup> January 2024**

**IEEE Lecture on “WiSe-Tech: A General-purpose Wi-Fi Sensing Technology for various Engineering & Societal Problems”**

IEEE COMMUNICATION AND COMPUTER JOINT SOCIETIES CHAPTER, CHANDIPUR and INTEGRATED TEST RANGE, CHANDIPUR organized a lecture titled “WiSe-Tech: A General-purpose Wi-Fi Sensing Technology for various Engineering & Societal Problems” on 17th January 2024 at Range Center, ITR. The resource person Dr Siba Kumar Udgata, Professor, Department of Computer Science, Central University, Hyderabad delivered the talk. He elegantly explained the new dimension of wireless communication technologies, IoT & sensor networks, and intelligent algorithms. He further highlighted upon the advantageous of Wi-Fi sensing technology. The talk was attended by Scientists, Technologists and researchers from ITR, DRDO.





Technical Talk attended by Scientists, Technologists & Research Fellows at ITR

**Date – 20<sup>th</sup> January 2024**  
**Industry Academia Conclave**

Department Of Electronics & Telecommunication Engineering VSSUT, Burla Technically Sponsored by IEEE VSSUT Student Branch ,IEEE power Electronics Society Bhubaneswar Subsection ,IEEE Communication and Computer Societies Joint Chapter ITR Chandipur DRDO , IEEE kolkata Section jointly organized an Industry Academia Conclave on the Occasion Of TECHTRONIX 2024 (ETC Branch Fest) based on the Theme "NEW AGE TECHNOLOGY FOR SUSTAINABLE INDUSTRIAL DEVELOPMENT: JOURNEY TOWARDS BIKSHIT BHARAT 2047"



**Date – 27<sup>th</sup> January 2024**

**Webinar on “Industry Institute Interactive (I3)  
Topic: Challenges in Distribution and Safety at Prosumer  
Premise**

The eminent speaker Mr. S Gopa Kumar, Founder and Promoter, Cape Electric Pvt. Ltd. addressed about Challenges in Distribution and Safety at Prosumer Premise.

**Date – 1st February 2024**

**IEEE VSSUT STUDENT BRANCH had conducted its  
orientation program "Ahan"**



On 1st February 2024, the IEEE VSSUT STUDENT BRANCH had conducted its orientation programme "Ahan" for equipping the students proper knowledge about the society and its activities. Our Chief Guest for the event, Dr. Satyabrata Das graced the event with its illustrious presence. The Branch Counsellor, Prof. Harish Kumar Sahoo and faculty advisor, Dr. Papia Ray talked about the importance of the society, and benefits of IEEE membership.

**Date – 9<sup>th</sup> and 10<sup>th</sup> February 2024**

## **KIIT School of Computer Engineering Organizes 4th International Conference on Emerging Systems and Intelligent Computing (ESIC-2024)**



The conference was technically co-sponsored by IEEE Bhubaneswar sub-section and IEEE Kolkata Section Consumer Society Chapter-Bhubaneswar.

The keynotes were presented by Prof. Gyoo-Soo Chae, of Baekseok University South Korea, and Saroj Kumar Meher, of Indian Statistical Institute, Bangalore Centre, India. More than 100 papers were presented over 2 days. The proceedings will be published by IEEE and will be indexed in Scopus. ESIC-2024 has attracted attendees from all over the globe with major presence from India. Extended papers from the conference will be communicated to Special Issue of a reputed journal.



Prof. Saroj Kumar Meher, of ISI, Bangalore was the chief guest of the inaugural event. Prof. Meher highlights the significance of emerging applications on our day-to-day life. Prof. Jnyana Ranjan Mohanty, Registrar KIIT, addressed the delegates and presented his views on research and innovation. Director General, Prof Biswajit Sahoo, KIIT School of Computer Engineering, welcomed the guests and delegates and expressed his gratitude to KIIT Management for smooth functioning of the events. Dr. Niranjana K. Ray, Program Chair and Dr. Pradeep K. Mallick give their views on technical events. Dr. Pinaki S. Chatterjee, Organizing Chair on behalf of the organizing committee, expressed gratitude to Prof. Achutya Samanta, Founder KIIT and KISS for his constant encouragement. The Organizing Team thanked Prof. (Dr.) Saranjit Singh, Vice-Chancellor, KIIT-DU and Prof. Jnyana Ranjan Mohanty, Registrar for their guidance and support.

**Date – 24th February 2024**

## **33<sup>rd</sup> EC Meeting held at ITR Chandipur**

The 33<sup>rd</sup> EC Meeting is held at ITR Chandipur on 24<sup>th</sup> February 2024. The IEEE team at ITR Chandipur greeted the IEEE Bhubneswar Subsection team consisting of Dr S R Samantray, Dr P K Meher, Dr CN Bhende, Dr D swain, Dr C Perumalla, Dr Chinmoy Panigrahi, Dr Sujata Chakravarti, Dr Bharti Mishra, Dr Ranjeeta Patel, Dr Niranjana Ray, Dr Sudhakar Sahu, Dr Monohar Mishra, Dr Monaj Debnath and Dr Pratap Pradhan. IEEE Bhubneswar Subsection

chair Shree H K Rath presided over the meeting.  
The meeting agenda was as follows.

1. Welcome address by Chair
2. Approval of the MoM of the 32nd EC Meeting
3. Update on important events
4. WIE Update
5. Society Chapter Updates
6. Membership Drive Startergy
7. Section Petition Update
8. Students Activities
9. Industry Relations
10. Conference Applications
11. Any Other Items





# Awards and Recognition

## Prof S R Samantray joins IEEE Task Force



**PROF S R SAMANTARAY**  
joins  
IEEE Task Force  
on Big Data Analytics for  
Synchro-Waveform  
Measurements  
under  
IEEE PES Committee on  
Analytic Methods for  
Power Systems (AMPS)

This Task Force will focus on promoting data analytics methods and applications of high-resolution waveform and synchro-waveform measurements in power systems, facilitating the industry's acceptance of this new data-intensive technology, identifying challenges and opportunities, and encouraging academic and industry collaborations.

## Shri Harekrishna Ratha has been awarded by IEEE

Computer and Communications Societies Joint Chapter Chair, Shri Harekrishna Ratha has been awarded by 2023 IEEE Member Recruitment and Recovery Committee for achieving outstanding member recruitment performance in the Kolkata section for the 2023 membership year





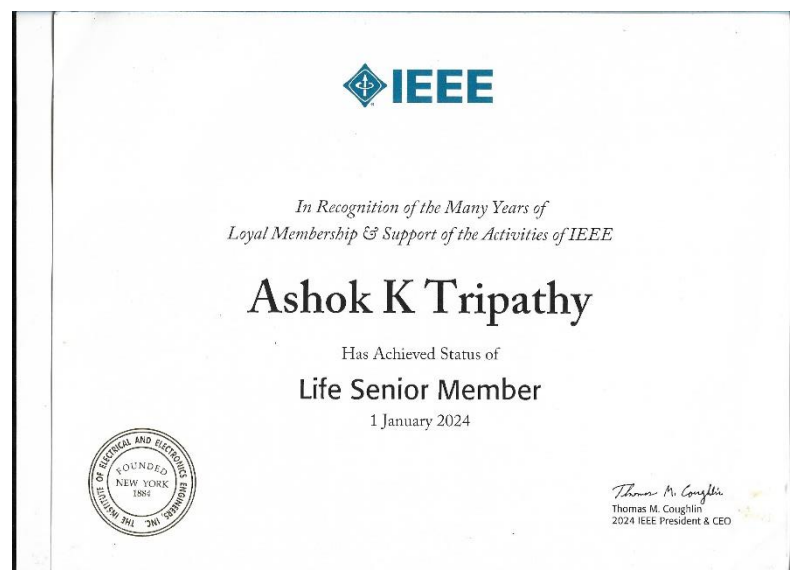
## Life Senior Member Achievement by Prof Ashok Kumar Tripathy

Prof Ashok Kumar Tripathy past chairman IEEE Bhubaneswar subsection, present chair PES Society has completed the requirement of eligibility for Life membership and IEEE headquarters has acknowledged his contribution. Prof Tripathy was chair Bangalore section and chair PES India Council earlier.



**Bhubaneswar has been elevated to Senior IEEE Member**

## Dr Puspanjali Mohapatra, IIIT





**Saifur Rahman**  
2023 IEEE President & CEO  
Phone + 1 732 562 3928  
Fax + 1 732 981 9515  
president@ieee.org

18 November 2023

Dear Puspanjali Mohapatra :

It is a great pleasure to congratulate you on your elevation to the grade of IEEE Senior Member. Only 10% of IEEE's more than 400,000 members hold this grade, which requires extensive experience, and reflects professional maturity and documented achievements of significance.

As a token of appreciation, IEEE is pleased to offer you the enclosed opportunity, good for a new one-year membership in an IEEE Society. Along with that, you have four discount referral certificates you can pass along to invite other prospective members and notify them of your achievement.

If you wish, I would be delighted to write to your employer, notifying him or her of your elevation to this high grade of membership. To have this letter prepared and sent, please complete the online form at: <http://www.ieee.org/smnotify>.

Congratulations on this significant milestone and thank you for your contributions to the profession and to IEEE.

Sincerely,

Saifur Rahman  
2023 IEEE President and CEO

Encl.

**News of additional Society Chapter in IEEE Bhubaneswar Subsection**



Following Student branch chapters have been added at KIIT, Bhubaneswar

|        |   |   |
|--------|---|---|
| 0<br>1 | IEEE<br>Kalinga<br>Institute of<br>Industrial<br>Technology<br>IEEE<br>Industry<br>Applications<br>Society<br>Student<br>Branch<br>Chapter in<br>the Kolkata<br>Section<br>(MEMIA03<br>4)<br>Approval<br>Date: April<br>4, 2023 | Chair: Snehalika<br><a href="mailto:snehalika.g@gmail.com">snehalika.g@gmail.com</a><br><br>Advisor: Dr. Ranjeeta Patel<br><a href="mailto:ranjeeta.patel@ieee.org">ranjeeta.patel@ieee.org</a><br><br>Councilor:<br>Chinmoy Panigrahi<br><a href="mailto:panigrahichinmoy@gmail.com">panigrahichinmoy@gmail.com</a>  |
| 0<br>2 | IEEE<br>Kalinga<br>Institute of<br>Industrial<br>Technology<br>IEEE<br>Consumer<br>Technology<br>Society<br>Student<br>Branch<br>Chapter in<br>the Kolkata<br>Section<br>(MEMCT00<br>8)<br>Approval<br>Date: April<br>7, 2023   | Chair: Suchismita Roy<br><a href="mailto:roysuchismita@yahoo.co.in">roysuchismita@yahoo.co.in</a><br><br>Advisor: Dr. Ranjeeta Patel<br><a href="mailto:ranjeeta.patel@ieee.org">ranjeeta.patel@ieee.org</a><br><br>Councilor:<br>Chinmoy Panigrahi<br><a href="mailto:panigrahichinmoy@gmail.com">panigrahichinmoy@gmail.com</a>                                     |
| 0<br>3 | IEEE<br>Kalinga<br>Institute of<br>Industrial<br>Technology<br>IEEE<br>Computati<br>onal<br>Intelligence  | Chair: ShivangiChatterjee<br><a href="mailto:t2004@gmail.com">t2004@gmail.com</a><br><a href="mailto:shivangichat">shivangichat</a><br>Advisor: Subhra<br>Debdas<br><a href="mailto:subhra.debdasfel@kiit.ac.in">subhra.debdasfel@kiit.ac.in</a><br><br>Councilor:<br>Chinmoy Panigrahi<br><a href="mailto:panigrahichinmoy@gmail.com">panigrahichinmoy@gmail.com</a> |

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|--|--|--|
|  | Society<br>Student<br>Branch<br>Chapter in<br>the Kolkata<br>Section.<br>Approval<br>Date: April<br>20, 2023 |  |
|--|--|--|

18 July 2023

Ranjeeta Patel  
School of Electrical Engineering  
KIIT University Bhubaneswar  
Bhubaneswar  
Orissa 751024  
India

Dear Ranjeeta Patel:

Congratulations! On behalf of the IEEE Member and Geographic Activities Vice President, Jill Gostin, and IEEE Technical Activities Vice President, John Verboncoeur, it is a pleasure to inform you that the requirements of the MGA Board Operations Manual have been met, and the IEEE Kolkata Section-Bhubaneswar Industry Applications Society Chapter has been formed. The effective date of this chapter formation is 17 July 2023.

You have been recorded as the Chapter Chair. When an election has been held, please report the name and member number of the new Chapter Chair to the IEEE using the online officer reporting tool at <https://officers.vtools.ieee.org/>. Valuable information regarding IEEE Society Chapters can be found at [http://www.ieee.org/societies\\_communities/geo\\_activities/chapters](http://www.ieee.org/societies_communities/geo_activities/chapters). If we can assist you in any way in the planning of the chapter activities, please let us know.

We extend our best wishes for the successful operation of this chapter.

Sincerely,

*Cecelia Jankowski*

Cecelia Jankowski  
Managing Director  
Member and Geographic Activities

cc: J. Gostin – Member and Geographic Activities Vice President  
J. Verboncoeur – Technical Activities Vice President  
L. Fung – Region 10 Director  
A. Knight – Industry Applications Society President  
P. McCarren – Industry Applications Society Executive Director  
S. Pillai – Chapters & Memberships Department Chair  
L. Bernstein – Industry Applications Society Administrator  
I. Misra – Kolkata Section Chair  
M. Ward-Callan – Technical Activities Managing Director

# Executive Committee selected for the year 2024

## Execom 2024 Office bearers

Chair



Shri Hare Krishna  
Ratha,  
ITR - Chandipur

Vice-Chair



Prof Chinmoy  
Kumar Panigrahi,  
KIIT University

Secretary



Prof C N Bhende, IIT  
Bhubaneswar

Joint Secretary



Prof. Renu Sharma,  
SOA University

Treasurer



Prof D P Dogra, IIT  
Bhubaneswar

### Execom Members 2024

Past Chair



Prof. Ganapati Panda

Past Chair






Prof A K Tripathy






Immediate Past Chair



Prof S R Samantaray

|   |  |   |  |
|---|--|---|--|
| <p>Special Invitees</p>  <p>Prof Ashwini Kumar Nanda, FIEEE, IIT Bhubaneswar</p> | <p>Special Invitees</p>  <p>Prof P K Meher, CVRGU</p> | <p>Special Invitees</p>  <p>Prof P K Nanda, SOA University</p> | <p>Special Invitees</p>  <p>Sri B. B. Mehta, Director – OPTCL , Bhubaneswar</p> |
|---|--|---|--|





## Technical Activities Committee

|  |  |  |   |  |
|--|--|--|---|--|
| <p>Chair</p>  <p>Prof. Vijay Shankar Pasupureddi, IIT Bhubaneswar</p> | <p>Vice-chair</p>  <p>Prof. Harish Sahoo, VSSUT Burla</p> | <p>Vice-chair</p>  <p>Prof Pradyut Biswal, IIIT Bhubaneswar</p> | <p>Vice-chair</p>  <p>Prof. Sujata Chakravarty, CUTM</p> | <p>Vice-chair</p>  <p>Dr Debadatta Swain, IIT Bhubaneswar</p> |
|--|--|--|---|--|





# BHUBANESWAR SUBSECTION






## Students Activities Committee

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