

# 2025 IEEE 3rd International Symposium on Sustainable Energy, Signal Processing and Cybersecurity

## iSSSC 2025

Organized by Department of EE & EEE  
 School of Engineering and Technology  
 GIET University, Gunupur, Odisha

**06-08 November 2025, Venue : GIET University, Odisha, India**

### Call for Papers

The 2025 IEEE 3rd International Symposium on Sustainable Energy, Signal Processing & Cybersecurity (iSSSC-2025), technically co-sponsored by IEEE Bhubaneswar Section and IEEE Consumer Technology Society Bhubaneswar, Odisha is being organized by the Department of Electrical Engineering and Electrical & Electronics Engineering, GIET University, Gunupur, Odisha, India from November 06-08, 2025. The 3<sup>rd</sup> edition of this conference invites papers that report the latest research and novel applications of IoT, AI/ML, and Big Data to the fields of Sustainable Energy, Signal Processing, and Cybersecurity.

### Topics covered by iSSSC 2025 include, but are not limited to:

#### Track 1: PROTOTYPE & PRODUCT MODELS

- IoT and AI-Enabled Smart Products
- Prototypes in Renewable Energy and Sustainability
- AI and Machine Learning in Product Design
- Smart Materials for Innovative Products
- Biotechnological Prototyping and Applications
- Agricultural Prototyping and Applications
- Waste to Wealth

**Participants submitting under Track-1 will receive seed funding support from industries based on the innovativeness of concepts.**

#### Track 2: SUSTAINABLE ENERGY SYSTEMS AND TECHNOLOGIES

- Renewable Energy Integration and Grid Management
- Energy Storage Innovations
- AI and IoT in Energy Systems
- Sustainable Transportation and Green Mobility
- Energy Policy, Economics, and Market Trends
- Sustainable & Smart Buildings
- Energy Efficiency and Demand-Side Management

#### Track 3: SIGNAL PROCESSING AND APPLICATIONS

- Advanced signal processing for 5G/6G communications
- Digital Signal Processing (DSP) Algorithms and Implementations
- Image and Video Signal Processing
- Biomedical Signal Processing
- Machine Learning for Signal Processing
- IoT and Embedded Signal Processing
- Signal Processing for Remote Sensing and Geosciences

#### Track 4: CYBERSECURITY AND PRIVACY

- Emerging Threats and Mitigation Strategies
- Privacy-Preserving Technologies
- Security in Emerging Technologies
- Cloud Security and Data Protection
- Cybersecurity for Critical Infrastructure
- Ethical Hacking and Penetration Testing

#### Track 5: SMART COMMUNICATION AND ANTENNA SYSTEMS

- Optical Communication
- Underwater Communication
- Wireless and Sensor Network
- Vehicular, and 5G/6G Communications
- Communication and AI
- Spectrum Sensing

#### Track 6: INTERDISCIPLINARY RESEARCH

1. Biomedical Systems and Control
  - a. Bio-system Modelling and Simulation
  - b. Physiological Control System
  - c. Medical Devices
  - d. Industrial Biotechnology
2. AI/ML and Robotics
  - a. Human Robot Interaction
  - b. AI and ML Interaction in Robotics
  - c. Human Robot Interaction
  - d. Autonomous Vehicle

**All accepted and presented papers in the conference will be submitted to IEEE Xplore for possible publication.**

**Contact us: [issc2025@gmail.com](mailto:issc2025@gmail.com)**

All paper should be submitted via Microsoft CMT  
<https://cmt3.research.microsoft.com/issc2025>

For details, visit the conference website at  
<https://ieee-issc.in/>

### Conference Highlights:

Best Paper Award  
 Keynote talks  
 Tutorial Sessions  
 Panel Discussions



Submission Link

### Important Dates:

**31-07-2025**  
 Paper Submission Deadline: ~~15-07-2025~~  
 Notification of Acceptance : 15-08-2025  
 Camera-ready Submission : 30-08-2025



Website Link

# COMMITTEE

## CHIEF PATRON(S):

Dr. Satya Prakash Panda, President, GIET University  
Dr. Chandra Dhwaia Panda, Vice President, GIET University  
Dr. Jagdish Panda, Director General, GIET University

## PATRON(S):

Dr. A V N L Sharma, Vice-Chancellor, GIET University  
Dr. N V J Rao, Registrar, GIET University

## HONORARY CHAIR:

Dr. L M Pattnaik, Pro-Chancellor, GIET University

## EXECUTIVE STEERING COMMITTEE:

Dr. K V S Hari, Director, Centre for Brain Research, IISC Bengaluru  
Mr. Puneet Mishra, Vice Chair (Technical Activities), IEEE India Council  
Dr. Suparna Kar Chowdhury, Chair IEEE Kolkata Section  
Dr. Chinmaya Ku Panigrahi, Vice-Chair, IEEE Bhubaneswar Section  
Dr. Dulu Patnaik, Dean SOET, GIET University

## GENERAL CHAIR(S):

Dr. Bibhuti Bhusan Biswal, Vice Chancellor, OUTR Bhubaneswar  
Dr. Pratap Kumar Panigrahi, Professor, GIET University

## TECHNICAL PROGRAM CHAIR(S):

Dr. Bibhudatta Sahoo, NIT Rourkela  
Dr. Nibaran Das, Jadavpur University, WB  
Dr. Ranjan Kumar Pradhan, OUTR Bhubaneswar  
Dr. Niranjan Ray, KIIT Bhubaneswar

## CONFERENCE CHAIR:

Prof. G Satya Prasad, GIET University

## PUBLICATION CHAIR(S):

Dr. Michael Packianather, Cardiff Unversity, UK  
Dr. A K Swain, NIT Rourkela

## TUTORIAL CHAIR(S):

Dr. Arun Kumar, NIT Rourkela  
Dr. Puneet Kumar Jain, NIT Rourkela

## WOMEN IN ENGINEERING CHAIR:

Dr. Vandana Bhattacharjee, BIT Mesra

## FINANCE CHAIR:

Dr. Srikant Misra, GIETU Gunupur

## INTERNATIONAL ADVISORY BOARD:

Dr. Ajay Gupta, Western Michigan University USA  
Dr. Akshya Kumar Swain, University of Auckland, NZ  
Dr. Anurag K Srivastava, West Virginia University, USA  
Dr. Anurag Sharma, Newcastle University, Singapore  
Dr. Jianzhong Wu, Cardiff University UK  
Dr. Joydeep Mitra, Michigan State University USA  
Dr. Kaushik Rajashekara, University of Houston USA  
Dr. Kamesh Namuduri, North Texas University USA  
Dr. Lalit Kumar Goel, NTU Singapore  
Dr. Mahesh Krishnamuthy, Southern Methodist University, Chicago  
Dr. Mehrdad Ehsani, Texas A&M University  
Dr. Michael Packianather, Cardiff University, UK  
Dr. Muhammad H. Rashid, Florida Polytechnic University USA  
Dr. H. P. Mahalik, California State University USA  
Dr. Ramana Reddy, West Virginia University, USA  
Dr. Sanjib Kumar Panda, NUS Singapore  
Dr. Sarika Khushalani-Solanki, West Virginia University, USA  
Dr. Senthil Krishnamurthy, CPUT South Africa  
Dr. Sheldon Williamson, Ontario Tech University Canada  
Dr. Tarlochan Sidhu, Ontario Tech University, Canada

## NATIONAL ADVISORY BOARD:

Dr. Akhilesh Swarup, NIT Kurukshetra  
Dr. Amitava Chatterjee, Jadavpur University  
Dr. Anil Kumar Singh, MNNIT Allahabad  
Dr. Asheesh K. Singh, MNNIT Allahabad  
Dr. Ashwani Kumar, NIT Kurukshetra  
Dr. Bidyadhar Subudhi, Director, NIT Warangal  
Dr. Bibhuti Bhusan Pati, VSSUT Odisha  
Dr. Bibhudatta Sahoo, NIT Rourkela  
Dr. B K Roy, NIT Silchar  
Dr. Biplab Bhattacharyya, IIT (ISM) Dhanbad  
Dr. Debi Prasad Das, Scientist, IMMT Bhubaneswar  
Dr. Dipti Saxena, MNIT Jaipur  
Dr. Ghanshyam Singh, MNIT Jaipur  
Dr. K. K. Sharma, MNIT Jaipur  
Dr. Narayana Prasad Padhy, Director, MNIT Jaipur  
Dr. Nibaran Das, Jadavpur University  
Dr. Nikhil R Pal, ISI Calcutta  
Dr. Nikhil Ranjan Das, University of Calcutta  
Dr. Nitin Singh, MNNIT Allahabad  
Dr. O.P. Sahu, NIT Kurukshetra  
Dr. P K Sadhu, IIT (ISM) Dhanbad  
Dr. Rajendra Kumar Pandey, IIT BHU  
Dr. Rajive Tiwari, MNIT Jaipur

Dr. Ranjan Kumar Behera, IIT Patna

Dr. Raseswari Pradhan, VSSUT Sambalpur

Dr. Richa Negi, MNNIT, Allahabad

Dr. Sanjay Kumar Parida, IIT Patna

Dr. Sanjeev Kumar Singh, MANIT Bhopal

Dr. Saroj Kumar Meher, ISI Bengaluru

Dr. Sandip Ghosh, IIT BHU

Dr. Sarat Kumar Patra, Director, NIT Agartala

Dr. Sivaji Chakravorti, Jadavpur University

Dr. Subir Kumar Sarkar, Jadavpur University

Dr. Subrata Banerjee, NIT Durgapur

Dr. Vijay Janyani, MNIT Jaipur

## TECHNICAL PROGRAM COMMITTEE:

Dr. Arun Kumar, NIT Rourkela  
Dr. A R Vasudevan, NIT Calicut  
Dr. Aakanksha Sharaff, NIT Raipur  
Dr. Abhishek Rajan, NIT Sikkim  
Dr. Alekha Kumar Mishra, NIT Jamshedpur  
Dr. Amandeep Kaur, NIT Delhi  
Dr. Ambarisha Mishra, NIT Patna  
Dr. Amitesh Kumar, NIT Patna  
Dr. Anisha Kumari, KIIT, Bhubaneswar  
Dr. Anushree Tripathi, NIT Patna  
Dr. Ashok Kumar, NIT Hamirpur  
Dr. Asish Kumar Dalai, VIT Andhra Pradesh  
Dr. Auran Majumder, NIT Durgapur  
Dr. B. Acharya, NIT Raipur  
Dr. Basant Kumar Sethi, SVNIT Surat  
Dr. Bharat Gupta, NIT Patna  
Dr. Bharati Mishra, IIIT Bhubaneswar  
Dr. Bharti Bakshi Kaul, NIT Hamirpur  
Dr. Bhaskar Mondal, NIT Patna  
Dr. Bibudhendu Pati, R D Womens' University Odisha  
Dr. Bikram Das, NIT Agartala  
Dr. Bijukumar B, NIT Puducherry  
Dr. Bunil Kumar Balabantaray, NIT Meghalaya  
Dr. C. Vyjayanthi, NIT Goa  
Dr. Chandra Shekhar Prasad, NIT Hamirpur  
Dr. Chandrashekhar Azad, NIT Jamshedpur  
Dr. Choudhary Shyam Prakash, NIT Andhra Pradesh  
Dr. Debasmita Panda, NIT Warangal  
Dr. Debbrota Paul Chowdhury, NIT Silchar  
Dr. Deepak Ranjan Nayak, MNIT Jaipur  
Dr. Durbadal Mandal, NIT Durgapur  
Dr. Dushyant Kumar Singh, MNNIT Allahabad  
Dr. G Siva Kumar, NIT Warangal  
Dr. Ghanapriya Singh, NIT Kurukshetra  
Dr. Greeshma Mohan U, NIT Calicut  
Dr. Gumpu Srinivasulu, MANIT Bhopal  
Dr. H. K. Kathania, NIT Sikkim  
Dr. Ila Sharma, MNIT Jaipur  
Dr. Jagannath Malik, IIT Patna  
Dr. Jaiverdhan, NIT Uttarakhand  
Dr. Jivanjot Singh, NIT Hamirpur  
Dr. Jyoti Prakash Singh, NIT Patna  
Dr. K Satya Babu, IIIT, Kurnool  
Dr. K. Venington, NIT Srinagar  
Dr. K V Shihabudheen, NIT Calicut  
Dr. Kiran Teeparthi, NIT Andhra Pradesh  
Dr. Kriti Bhushan, NIT Kurukshetra  
Dr. Ksh Milan Singh, NIT Meghalaya  
Dr. Lakshi Prosad Roy, NIT Rourkela  
Dr. Lopamudra Hota, BIT Mesra  
Dr. Madhurima Buragohain, NIT Jalandhar  
Dr. Madhusudan Singh, NIT Nagaland  
Dr. Mala De, NIT Patna  
Dr. Malaya Kumar Nath, NIT Puducherry  
Dr. Manoj Kumar Patra, LNMIIT Jaipur  
Dr. Manoja Kumar Behera, MANIT Bhopal  
Dr. Manoj Kumawat, NIT Delhi  
Dr. Manu Vardhan, NIT Raipur  
Dr. Mitul Kumar Ahirwal, MANIT Bhopal  
Dr. Monalisa Biswal, NIT Raipur  
Dr. Mrutyunjaya Panda, Utkal University Odisha  
Dr. Neeraj Gupta, NIT Srinagar  
Dr. Neeraj Rao, VNIT Nagpur  
Dr. Nitesh Kashyap, NIT Jalandhar  
Dr. P. Karuppanan, MNNIT Allahabad  
Dr. Pathipati Srihar, NIT Suratkal  
Dr. Pinki Roy, NIT Silchar

Dr. Pradeep Kumar, NIT Kurukshetra

Dr. Pradeep Kumar Das, NIT Warangal

Dr. Priyanka, NIT Hamirpur

Dr. Punjan Dohare, MANIT Bhopal

Dr. Raghavendra Pal, NIT SVNIT Surat

Dr. Rajdip Dey, NIT Durgapur

Dr. Rajesh Saha, NIT Silchar

Dr. Rajvir Kaur, NIT Puducherry

Dr. Rakesh Ranjan, NIT Patna

Dr. Ram Prakash Sharma, NIT Hamirpur

Dr. Ranjita Das, NIT Agartala

Dr. Ravi Kumar Maddila, MNIT Jaipur

Dr. Ravinder Kumar, NIT Uttarakhand

Dr. Ruchi Agarwal, NIT Patna

Dr. Saikat Ch. Bakshi, NIT Calicut

Dr. Sanjay Tolani, SVNIT Surat

Dr. Santosh Kumar Behera, NIT Calicut

Dr. Santosh Kumar Tripathy, NIT Patna

Dr. Sasmita Acharya, VSSUT Sambalpur

Dr. Sathiya S, NIT Calicut

Dr. Satyendra Singh Yadav, NIT Meghalaya

Dr. Seemanti Saha, KIIT, Patna

Dr. Shelly Vadhera, NIT Kurukshetra

Dr. Shashi Bhushan Singh, NIT Kurukshetra

Dr. Shikha Maurya, NIT Agartala

Dr. Sibarama Panigrahi, NIT Rourkela

Dr. S K Tripathy, NIT Silchar

Dr. S L Shivadarshan, NIT Warangal

Dr. S N Deepa, NIT Calicut

Dr. S. Ravi Chandra, NIT Warangal

Dr. Sourav Bose, NIT Uttarakhand

Dr. Srinivasarao C, NIT Calicut

Dr. Subha D Puthankattil, NIT Calicut

Dr. Sudhakar Sahu, KIIT Bhubaneswar

Dr. Sujit K. Mandal, NIT Durgapur

Dr. Sumit Kumar, NIT Jalandhar

Dr. Suman Samui, NIT Durgapur

Dr. Surajit Sannigrahi, NIT Raipur

Dr. Surender Hans, MNIT Jaipur

Dr. Suresh Mikkili, NIT Goa

Dr. Swapnajit Pattnaik, NIT Raipur

Dr. Sweeti Sah, NIT Kurukshetra

Dr. Tanmay Kumar Behera, NIT Mizoram

Dr. Tejavathu Ramesh, NIT Andhra Pradesh

Dr. Tirupathiraju Kanumuri, NIT Delhi

Dr. T. S. Bheemraj, MANIT Bhopal

Dr. Tushar Kanti Bera, NIT Durgapur

Dr. V P Harigovindan, NIT Puducherry

Dr. Vishal Ramesh Satpute, VNIT Nagpur

Dr. Yadunath Pathak, MANIT Bhopal

Dr. Yedukondala Rao, NIT Puducherry

## INDUSTRY COLLABORATION COMMITTEE:

Dr. Debabrata Nayak, PWC India  
Dr. Srikant Mahapatra, TCS Bhubaneswar  
Dr. Pramod Kumar Misra, PRA India, Pvt Ltd  
Mr. Madhu Vadlamani, WinWire Technology, Pvt Ltd  
Mr. Biswaranjan Jena, TCS, Bhubaneswar  
Mr. Bijaya Kumura, Utkal Alumina International Ltd, Sambalpur  
Mr. Ramesh Naidu, MindX360, Hyderabad  
Mr. Arya Vedabrata, ByteIQ Analytics, Hyderabad

## WOMEN IN ENGINEERING COMMITTEE:

Dr. Sucheta Panda, VSSUT Samabalpur  
Dr. Ghanapriya Singh, NIT Kurukshetra  
Dr. Lopamudra Hota, BIT Mesra  
Dr. Suchismita Rout, KIIT Bhubanesawr

Dr. Sasmita Dash, GIET University

## LOCAL ADVISORY COMMITTEE:

Dr. V S Devadas, GIET University  
Dr. K Murali Babu, GIET University  
Dr. Manoj Das, GIET University  
Prof. Ashis Kumar Samal, GIET University  
Dr. Bibhu Prasad, GIET University  
Dr. Kalicharan Rath, GIET University  
Dr. Pativa Kar, GIET University  
Dr. Saumendra Das, GIET University  
**OGANIZING COMMITTEE:**  
Prof. Balaram Das, GIET University  
Prof. B. Vikram Anand, GIET University  
Prof. Rakesh Sahu, GIET University  
Prof. Sujit Kumar Patro, GIET University

## REGISTRATION FEES:

Category	IEEE Member	Non-IEEE Member
Research Scholars, UG and PG Students	3,500 INR	4,000 INR
Academicians	4,000 INR	4,500 INR
Industry	6,000 INR	6,500 INR
Foreign Student Participant	USD 200	USD 250
Foreign Academicians	USD 300	USD 350

## CONTACT PERSONS:

- **Dr. P K Panigrahi, GIETU, Gunupur**
  - (M 7008189716/9861432688)
  - pkpanigrahi@giet.edu
- **Dr. Bibhudatta Sahoo, NIT Rourkela**
  - (M 9337938766)
  - bdsahu@nitrrkl.ac.in
- **Dr. Srikant Misra, GIETU, Gunupur**
  - (M 9439330052/9692474702)
  - srikantm@giet.edu
- **Dr. Niranjana Ray, KIIT Bhubaneswar**
  - (M 9861361486)
  - niranjan.rayfcs@kiit.ac.in