IEEE SILCHAR SUBSECTION CONFERENCE 2025
IEEE SILCON 2025

November 06th -08th, 2025 (Hybrid Mode)
Hosted By NIT Nagaland
Technically Co-Sponsored by IEEE Kolkata Section

Important Dates

Paper Submission Deadline: ~~15th July 2025~~ 30th August 2025
Paper Decision*: 1st October
Camera Ready Paper Submission: 15th October 2025
* Notification

ABOUT NIT NAGALAND

National Institute of Technology Nagaland is a premier technical institution established in 2009 at Chumukedima, Nagaland. After operating initially at NIT Silchar for two years, it moved to its permanent 291-acre campus in 2012, developing academic facilities through refurbished buildings and new prefabricated structures.

The institute has built classrooms, laboratories for Physics, Chemistry, Electrical Machines, and Power Systems, and separate hostel complexes, establishing itself as a growing center for technical education in Northeast India while maintaining its status as an Institute of National Importance.

KEY FEATURES OF NIT NAGALAND:

- **Academics:** Offers Undergraduate, Postgraduate, and Doctoral Programs ipn Engineering, Sciences and Humanities
- **Research:** Focuses on research and innovation with various research centers and collaborations
- **Campus:** Known for its scenic beauty and modern infrastructure
- **Rankings:** Ranked among the top engineering institutes in India

ABOUT IEEE SILCON

IEEE SILCON is the flagship annual international conference of the IEEE Silchar Subsection. The conference aims to gain significant interest among researchers, academicians, professionals, and students in the region, covering all technical areas related to IEEE.

IEEE SILCON 2025 is expected to bring together researchers, educators, students, practitioners, technocrats, and policymakers from academia, government, industry, and non-governmental organizations to discuss, share, and promote current research works across all aspects of electrical, electronic, computer science and instrumentation.

CALL FOR PAPERS

Authors can submit short (4 pages) and regular (max 6 pages) papers that contain original material which is not currently communicated in other conferences or journals and has not been previously published. Potential research topics include (but are not limited to) following thrust areas.

This 3-day event includes several keynote speeches by distinguished speakers from academia, industry, and government sectors; panels and forums; technical sessions featuring technical papers extensively reviewed by peers; workshops focusing on the latest trends in various technology; tutorials delivered by experts in respective disciplines; exhibits; an awards luncheon; and a relaxing and entertaining banquet. Also, there will be dedicated sessions on industry collaborations with academia and Women in Engineering (WIE).

After peer review, all accepted and presented papers of IEEE SILCON-2025, will be submitted to IEEE Xplore for their inclusion. There will be a few workshops co-located with the conference. Proposals to organize workshops in-line with the theme and main conference are also encouraged. In addition, those interested in the conference are also encouraged to submit proposals for tutorials and Ph.D. Forum.

Registration Fee Related Information:
(https://ieeesilcon.org.in/registration.html)

Paper Submission Link:
(https://ieeesilcon.org.in/information_authors.html)/
(https://cmt3.research.microsoft.com/User/Login?ReturnUrl=%2FIEEE SILCON2025)

Paper Template Doc:
(https://www.ieee.org/conferences/publishing/templates)
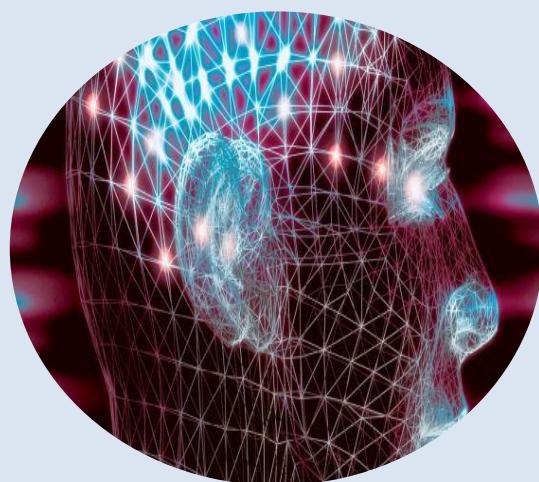
TECHNICAL TRACKS

Track 1: Communication and Networking

- Wireless Communications & Networks
- Optical Communications & Networks
- Modulation and Coding Techniques
- Ad-hoc & Sensor Networks
- Vehicular Networks
- Internet-of-Things (IoT) Networks
- Cognitive Radio Networks
- Device-to-Device (D2D) Communications
- Social Network aware Wireless Network
- Cryptography and Network Security
- mmWave Communications
- Ultrawideband Communications
- Security and Privacy in Cloud, Edge, Fog and Mobile Computing
- Blockchain Technology for Communication
- Cross-layer designs
- Distributed resource allocation and scheduling
- Multicarrier communication systems
- Cooperative communications
- Underwater communications
- Green telecommunications
- Smart Grid Communications
- Soft computing and its applications to Communications

Track 2: Signal Processing
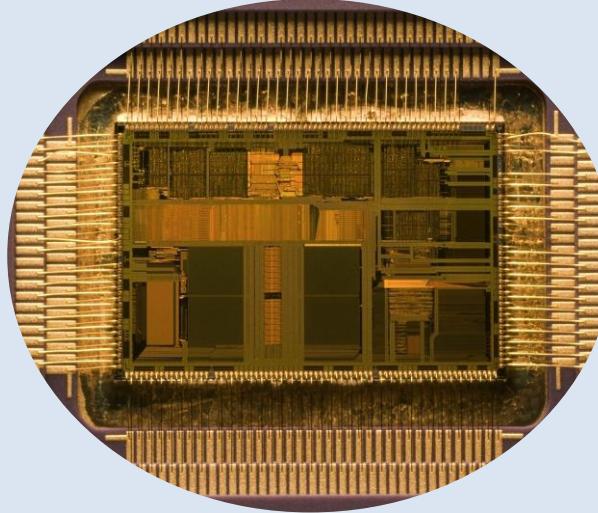
- Image/Video/Multimedia Signal Processing
- Audio/Speech/Natural Language Processing
- Digital and Multi-rate Signal Processing
- Statistical Signal Processing
- Signal Processing Algorithms and Architectures
- Pattern Recognition and Object Tracking
- Array Signal Processing
- Human-Computer interfaces
- Biomedical Imaging
- RADAR/Satellite Signal Processing

- ML/DL for Signal/Image/Video Processing
- Compressive Sensing and High-Dimensional Statistics
- Signal Processing in Bio Medical Engineering & Communications
- Soft computing and its applications to Signal Processing
- Geoscience and Remote Sensing

Track 3: RF, Microwave and mmWave

- Antennas, DRAs, MIMO and Massive & Integrated Antennas, etc.
- High frequency Active components, Amplifiers, Mixers, Oscillators, etc.
- Radio-wave Propagation and Computation Electromagnetics
- RFICs, MICs and MMICs
- mmWave and THz Systems
- EMI & EMC
- Microwave Imaging and Metrology
- Tunable Filters, reconfigurable filters
- High Frequency Materials and Structures
- RF and Microwaves in Medicine and Biology
- RF Energy Harvesting and Wireless Power Transfer

Track 4: Micro/Nanoelectronics Devices and Circuits

- Device Physics and Quantum Electronics
- Compact Device Modeling
- Flexible Electronics
- High Efficiency Solar Cells
- Novel Photovoltaic Concepts
- Analog VLSI Circuits
- Digital VLSI Circuits
- Mixed-mode VLSI Circuits
- MEMS and NEMS
- LED, MOSFET, MESFET, Fin FET, TFET
- Semiconductor Materials and Devices
- Beyond CMOS, III-VHEMT, Ga2O3 HEMT, SET, UWB
- 2D Materials: Graphene, Spintronics, Carbon Nanotubes,
- Nanotechnology: Nanowires, Nanostructures,
- System on Chip (SoC), etc.

Track 5: Artificial Intelligence, Data Science & Computing

- Artificial Intelligence, Machine Learning, Deep Learning
- Data Mining, Data Science and Data-Driven Methodology
- Evolutionary Algorithms and Computational Intelligence
- Natural Language Processing, Linked Data and Semantic Web
- Image Processing, Video Processing
- Computational and Digital Geometry
- AI-Driven Bioinformatics and Bio-Engineering
- Computational Music – Algorithmic composition, Music Retrieval, Raag Analytics
- Fuzzy Logic
- Neural Networks
- Expert Systems
- Big Data Analytics
- Social Network Analysis
- Pattern Recognition
- Quantum Computing
- Cloud Computing
- Grid Computing
- Smart City, Smart Agriculture, and Smart Systems, etc.

Track 6: Software Engineering

- Software Engineering Methods
- Design Patterns and Frameworks
- Software Deployment and Operations
- Service Based Technologies
- Mining Software Repositories
- Automated Software Engineering
- Green Software Engineering
- Software Engineering, Artificial Intelligence and Machine Learning, etc

Track 7: Power System and Smart Grid
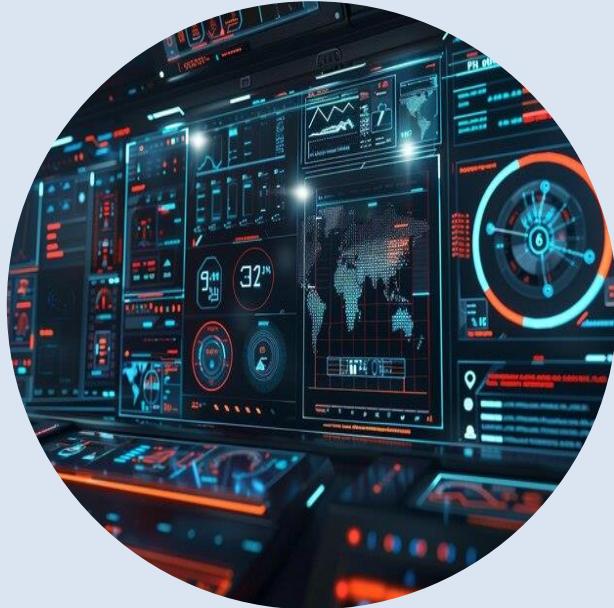
- Renewable and Green Energy

- Electrical Machines
- Advanced Power Apparatus
- Control Applications to Power Systems
- Data Analytics & IoT For Power Systems
- Optimization Problems in Future Grids
- Power System Planning & Reliability
- Dielectrics and Electrical Insulation
- Transmission System Technologies, HVDC
- Active Distribution Network Management
- Smart Generation, Transmission & Distribution
- Physical, Cyber & System Security in Power Grids
- Signal Processing Analytics for Power Systems
- Power System Operations, Protection and Stability
- Power System Restructuring, Economics & Electricity Markets
- Condition Monitoring & Power System Asset Management
- Renewable Energy Systems and Their Grid Integration
- Machine Learning & Signal Processing for Power & Energy Applications
- Planning, Operation and Control of Transmission and Distribution Networks
- Power Engineering Education and Policy Issues, etc.

Track 8: Power Electronics and Drives
- Power Converters
- Electric Vehicles (EVs)
- Power Quality
- Grid Tied Systems
- Bidirectional Power Converters
- Renewable Energy & Energy Storage
- Gate drivers, EMI, EMC and Protection
- Power Electronics for Hybrid and Electric Vehicles
- Power Devices, Components and Magnetic Materials
- Power Quality conditioners, HVDC Converters & Control, etc.

Track 9: Control and Instrumentation
- Instrumentation and Control Components
- Transducer Principles

- Measurement Techniques
- Systems and Automation
- Industrial Automation
- Mathematical Control Theory
- Advanced Control Techniques
- Automated Guided Vehicles
- Fault detection and Isolation
- System Identification and Control
- Linear and Nonlinear Control Systems
- Optimization and Optimal Control
- Analytical and Virtual Instrumentation
- Process Control and Instrumentation
- Sampled-Data Control Systems and Digital Control
- Biomedical Instrumentation and Applications
- Recent Developments in Automation and Control
- Stochastic Control and Filtering
- Applications of Control Theory in Industry

Track 10: Humanitarian Technology & Engineering Education
- COVID-19 Prediction and Modeling
- Theoretical Computer Science
- Engineering Education Reforms
- Globalization in Education
- Women in Engineering Education
- Computer and Web based software
- Industry and Education Collaboration
- Product Safety & Reliability Engineering
- International Recognition of Qualifications
- Changes and Challenges in Engineering Education
- Distance learning: methods, technologies, and assessment
- Research and development in Engineering Education
- Social and Humanitarian Implications of Technology
- Linking Academic Knowledge with the Industrial Needs
- Emerging technologies and their applications in education
- publications, tourism, healthcare, agriculture, etc.

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CONFERENCE HIGHLIGHTS

- **Hybrid Mode:** Both in-person and virtual participation options
- **Keynote Speakers:** Distinguished speakers from academia, industry, and government
- **Technical Sessions:** Peer-reviewed research presentations
- **Workshops & Tutorials:** Latest trends in technology
- **Industry Collaboration:** Dedicated sessions for academia-industry partnerships
- **WIE Sessions:** Women in Engineering focused discussions
- **Networking:** Opportunities for research collaboration
- **Awards & Recognition:** Best paper awards and recognition

REGISTRATION FEE

Authors Category	Indian Delegates in Rupees	Foreign Delegates in USD
Delegates from Industry (Non-IEEE Members)	12,000	350
Delegates from Industry (IEEE Members)	10,000	300
Delegates from Academia (Non-IEEE Members)	8,000	250
Delegates from Academia (IEEE Members)	7,000	200
Students (Non-IEEE Members)	5,000	200
Students (IEEE Members)	4,000	150
Accompany Delegates	3,000	100
Student Attendees	1,000	100

ONE AUTHOR REGISTRATION WILL COVER ONLY ONE PAPER

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