



## 2024 IEEE Silchar Subsection Conference (IEEE SILCON-2024)



(Hybrid Mode)

**Technical/Financial Co-Sponsorship (proposed):**

**IEEE Kolkata Section/IEEE India Council/IEEE Region-10/IEEE Societies/IEEE Councils/IEEE Affinity Groups**

**November 15-17, 2024**

### **ABOUT**

IEEE SILCON is the Flagship Annual International Conference of IEEE Silchar Subsection. IEEE SILCON conference series targets to bring forth the researchers, academicians, professionals, industry delegates and students in the region, covering all the technical areas related to IEEE. The SILCON targets to offer a platform for research collaboration, networking, and presentation of recent research findings in the fields of Computer Science, Electrical Engineering, Electronics & Communication Engineering.

IEEE SILCON-2024 is expected to bring together researchers, educators, students, practitioners, technocrats, and policymakers from academia, government, industry, and nongovernmental organizations to discuss, share, and promote current research works and recent research accomplishments across all aspects of electrical, electronic, computer science and instrumentation. With an amalgam of events, e.g., keynote addresses by reputed academicians, high-quality plenary sessions, tutorials, workshops, student paper contests, industry exhibitions, high-quality research demonstrations from the best researchers across the globe, IEEE SILCON-2024 will offer such a platform for networking & knowledge dissemination.

## **SCOPE OF THE CONFERENCE**

Authors can submit short (4 pages) and regular (max 6 pages) papers that contain original material which is not currently communicated in other conference or journal and has not been previously published. Potential research topics include (but 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).

The following are the Lead Technical Tracks but not limited to:

### **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
- Compressive Sensing and High-Dimensional Statistics

- Signal Processing in Bio Medical Engineering
- Signal Processing for Communications
- Soft computing and its applications to Signal Processing
- Geoscience and Remote Sensing
- Array Signal Processing
- Human-Computer interfaces
- Biomedical Imaging
- RADAR/Satellite Signal Processing
- ML/DL for Signal/Image/Video Processing

### **TRACK 3: RF, MICROWAVE AND MMWAVE**

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

### **TRACK 4: MICRO/NANOELECTRONICS DEVICES AND CIRCUITS**

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

### **TRACK 5: ARTIFICIAL INTELLIGENCE, DATA SCIENCE AND COMPUTING**

- Artificial Intelligence, Machine Learning, Deep Learning
- Data Mining, Data Science and Data-Driven Methodology
- Neural Networks
- Fuzzy Logic
- Expert Systems
- Big Data Analytics

- Evolutionary Algorithms and Computational Intelligence
- Natural Language Processing, Linked Data and Semantic Web
- Pattern Recognition
- Image Processing, Video Processing
- Computational and Digital Geometry
- Social Network Analysis
- AI-Driven Bioinformatics and Bio-Engineering
- Computational Music – Algorithmic composition, Music Retrieval, Raag Analytics
- 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
- Software Engineering, Artificial Intelligence and Machine Learning
- Green Software Engineering, etc.

#### **TRACK 7: POWER SYSTEM AND SMART GRID**

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

#### **TRACK 8: POWER ELECTRONICS AND DRIVES**

- Power Converters
- Electric Vehicles (EVs)
- Power Electronics for Hybrid and Electric Vehicles

- Power Devices, Components and Magnetic Materials
- Renewable Energy & Energy Storage
- Power Quality
- Grid Tied Systems
- Bidirectional Power Converters
- Power Quality conditioners, HVDC Converters & Control
- Gate drivers, EMI, EMC and Protection, etc.

#### **TRACK 9: CONTROL AND INSTRUMENTATION**

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

#### **TRACK 10: HUMANITARIAN TECHNOLOGY & ENGINEERING EDUCATION**

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

## Call for Papers

After peer review, all accepted and presented papers of IEEE SILCON-2024, will be submitted to **IEEE Xplore** for their inclusion and other major indexing. 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 PhD Forum.

*Limited funds are available for students to travel to the conference for paper presentation and participation.*

## About IEEE Silchar Subsection

IEEE Silchar Subsection came into existence on 26<sup>th</sup> June 2021 with the commendable efforts from the IEEE community at NIT Silchar and other IEEE Members from the North-Eastern India region. IEEE Silchar Subsection will have geographical reach over higher educational institutions in Assam, Tripura, Mizoram, Manipur, and Nagaland states of the North-Eastern Part of India in respect of activities of IEEE. The subsection works for creating opportunity and space in the line of IEEE mandate to advance technology for the benefit of humanity. The subsection looks at various technical activities, including facilitating Technical Co-Sponsorship for Conferences, Conducting Workshops, Technical Seminars, Distinguished Lecture programs, Colloquiums, and other possible technical activities. The subsection is actively engaged in bringing student members into various activities through the student chapters.

## About NIT Agartala

The National Institute of Technology Agartala has been constituted by the honorable Govt. of India with the mission to herald a new chapter of development in the country, particularly, in the North-East states, through pursuit of excellence in technical education and research. The Government of India converted the Tripura Engineering College to National Institute of Technology Agartala on 1st April 2006 vide notification No. F. 20-20/2004/TS III/ dated 10.03.2006 of the Ministry of Human Resources Development (MHRD), Govt. of India. During the conversion, Tripura Engineering College was offering undergraduate degrees in Civil, Mechanical, Electrical, Computer Science Engineering, Electronics & Communication and Production Engineering. The Institute is committed to develop technical manpower with through pursuit of excellence in research, consultancy and skill development.

## About IEEE SILCON-2024

IEEE Silchar Subsection has organized IEEE SILCON-2022 and IEEE SILCON-2023 the Flagship Annual International Conference of IEEE Silchar Subsection from 4<sup>th</sup> to 6<sup>th</sup> November 2022 and 3<sup>rd</sup> – 5<sup>th</sup> Nov 2023 respectively in Hybrid Mode. Previous IEEE SILCON was lauded with applause from the research community of academicians, professionals, industry delegates and students in this region as it was successful in offering them a platform for research collaboration, networking and knowledge dissemination through presentation of recent research findings in the fields of Computer Science, Electrical Engineering, Electronics & Communication Engineering. IEEE SILCON is a real technical extravaganza by threading several keynote addresses, tutorials & plenary sessions by reputed academicians, in addition to the high-quality research demonstrations from the eminent researchers across the globe.

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