

NATIONAL INSTITUTE OF TECHNOLOGY SILCHAR

INTERNATIONAL CONFERENCE ON **Advanced Communication Technologies and Signal Processing** (IEEE ACTS-2020) 22-24 May, 2020



Department of Electronics and Communication Engineering NIT Silchar is proud to organise [ACTS-2020](#) technically Co-sponsored by [IEEE Kolkata Section](#) ([IEEE Conference Record : #49415](#)). IEEE ACTS-2020 is organized to promote the state of art and cutting edge Processing. IEEE ACTS-2020 is technically supported by IEEE sponsored by TEQIP-III. The distinguishing characteristic of IEEE ACTS-2020 is the promotion of advanced research and developments in Signal Processing and provide a platform for academia and industry to bridge the gap between academic research, industry initiatives, and governmental policies. The conference aims to foster the theme through keynotes, invited talks, and industry exhibits and oral presentation of research articles in the most relevant areas allied to the theme. The conference will also exhibit Graduate Research Forum to encourage budding young researchers to showcase their innovative research in different domain.

The theme of [IEEE Acts 2020](#) is "[Connect, Sense and Bridge](#)". Today's technological advances in Wireless Communication, Wireless Sensor Networks, Internet of Things or Cyber Physical Systems or Biomedical Signal Processing are generating enormous possibilities to connect numerous devices, networks and systems, Intelligently senses the deliverables and bridge them with the existing physical world.

CONTACT US FOR MORE INFORMATION

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www.acts2020.nits.ac.in



Call for paper

After peer review, all accepted and presented papers of IEEE ACTS-2020, will appear in IEEE Xplore and indexed in SCOPUS, Google Scholar 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.

Prospective authors are invited to submit original, and unpublished full papers in the following tracks but not limited to:

1. Communication and Networking

- Wireless Communications & Networks
- Optical Communications & Networks
- Modulation and Coding Techniques
- Ad-hoc & Sensor Networks
- Vehicular Networks
- Mobility Models & Mobile Networks
- Internet-of-Things (IoT) Networks
- Cognitive IoT
- Cognitive Radio Networks
- Device-to-Device (D2D) Communications
- Social Network aware Wireless Network
- 5G & beyond Communications
- mm wave Communications
- Cross-layer designs
- Cognitive radio systems and networking
- Spectrum Management
- Distributed resource allocation and scheduling
- Mobile ad-hoc networks
- Modulation, Coding and Diversity
- Multicarrier communication systems
- Next generation networking and wireless systems-
-Routing protocols and QoS scheduling
- Cooperative communications
- Underwater communications
- Green telecommunications
- Smart Grid Communications
- Soft computing and its applications to Communications

2. Signal Processing

- Image/Video/Multimedia Signal Processing
- Audio/Speech/Spoken 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

3. RF Circuits and Microwave

- Antennas, Propagation and Computation EM
- RF/Millimeter-wave Circuits and Systems
- THz, mmWave and RF Systems for Communications
- Materials and Structures
- Microwave Metrology
- RF and Microwaves in Medicine and Biology

Topics on AI ,ML/DL ,BigData relevant to theme of IEEE-ACTS- 2020 are also encouraged



ABOUT THE THEME

Technology for future should be based on reaching out to the people, and enable them to use and experience the benefits for a smarter & better society. This would definitely involve innovations in every aspect of engineering such as development of devices, sensing and communication techniques, networking and data processing algorithms, energy utilization, safety and security considerations, efficient biomedical signal processing, accurate diagnosis of diseases & delivery of drugs and so on. Next generation technology will be largely driven by the ubiquitous communication & networking technology encompassing multiple platforms, systems and services; pervasive signal processing algorithms comprising of medical imaging, medical imaging, speech processing for automated systems. In addition to the myriad of topics mentioned in the list below, technical papers are invited which have special focus on enabling technologies for a hyper-connected world.

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.

ABOUT NIT SILCHAR

With a vision to train and transform young professionals into responsible citizens engaging themselves for the betterment of the society, NIT Silchar has come a long way from being a REC to brand- NITS. The Institute aims to produce skilled and trained industry-ready professionals through imparting quality technical education and acts as the center of excellence for engineering and scientific research. For information visit: www.nits.ac.in

ABOUT THE DEPARTMENT

The Department of Electronics & communication offers 4 years Undergraduate B. Tech. programme in Electronics & Communication Engineering, two Post Graduate Programs and PhD program in various fields of Electronics and Communication Engineering. Keeping in mind the great potential and demand for new communication technologies, the Department aims at imparting its students with the latest knowledge in the field. To complement this the Department has well stocked laboratories housing various modern equipment to enable the students to keep pace with the fast changing technology.

ABOUT IEEE ComSoc

The IEEE Communications Society (IEEE ComSoc) is a leading global community comprised of a diverse set of professionals with a common interest in advancing all communications and networking technologies. IEEE ComSoc has over 28,000 members in more than 149 countries. For more information, visit www.comsoc.org.

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IMPORTANT DATES

Paper Submission Deadline	February 28, 2020
Notification of Acceptance	April 01, 2020
Final Camera Ready Submission	April 20, 2020

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