



NIT Silchar Student Branch



# NATIONAL INSTITUTE OF TECHNOLOGY, SILCHAR

## International Conference on Advanced Communication Technologies and Signal Processing (IEEE ACTS-2020 | Virtual Conference)

04-06 December, 2020

Technical Co-Sponsored by IEEE Kolkata Section

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### Call for Papers

International Conference on Advanced Communication Technologies and Signal Processing (IEEE ACTS-2020) 22-24 May, 2020, Technical Co-Sponsorship by IEEE Kolkata Section (IEEE Conf. Record No.: #49415) invites papers in the areas of Communications and Networking, Signal Processing, RF Circuits and Microwave, and in other allied areas including application of AI, ML/DL, BigData in the relevant areas. Original, unpublished research papers highlighting specific research domains from all viewpoints are invited from delegates all over the globe.

This year the theme 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.

All accepted and orally presented papers of IEEE ACTS-2020, will be sent for publication in IEEE Xplore (indexed in major databases including Scopus)

Travel Grant: Limited funds are available for students to travel to the conference for paper presentation

The following are the Lead 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
- 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

#### Track 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

#### Track 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

For submission please log in to EDAS

Visit : <http://acts2020.nits.ac.in>

#### Important Dates

• Paper submission last date	31.08.2020
• Acceptance notification	15.10.2020
• Camera Ready Manuscript submission	10.11.2020