



***NIT Silchar Student Branch Chapter***

**NATIONAL INSTITUTE OF TECHNOLOGY, SILCHAR**

**International Conference on**

**Advanced Communication Technologies and Signal Processing**

**(IEEE ACTS-2020)**

**22-24 May, 2020**

**Technical Co-Sponsorship by IEEE Kolkata Section**

*under the aegies of*



##### **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 Original, unpublished research papers highlighting specific research domains from all viewpoints are invited from delegates all over the globe.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 **sense**s 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.

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| 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** |

**EDAS Link for submission of paper:**

**Important Dates**

* **Paper submission last date : 28.02.2020**
* **Acceptance notification : 01.04.2020**
* **Camera Ready Manuscript submission : 20.04.2020**