ANTS is a premier IEEE forum on networking and telecommunications topics. It is the only conference in India that is financially sponsored by the IEEE Communications Society. The distinguishing characteristic of the IEEE ANTS is promoting an intense dialogue between academia and industry to bridge the gap between academic research, industry initiatives, and governmental policies. This is fostered through panel discussions, keynotes, invited talks, and industry exhibits, where academia is exposed to state-of-the-practice, results from trials and interoperability experiments. The industry, in turn, benefits from exposure to leading-edge research in networking as well as the opportunity to communicate with academic researchers regarding practical problems that require further research. This year’s theme is “Scalable, Secure, and Sustainable Connectivity for All.” In addition to the topics mentioned below, a particular focus will be on accepting papers based on telecommunications and networking solutions to provide scalable, secure, and sustainable connectivity. IEEE ANTS 2022 will be held at the Indian Institute of Technology (IIT) Gandhinagar, located in the capital city of Gujarat state, India. IEEE ANTS 2022 will feature high-quality technical sessions, workshops, tutorials, keynotes, panels, industry expo and demo, early research forum, career zone, and women in engineering mini-conference. Authors can submit short (4 pages) and regular (6 pages) papers that contain original material that is not currently communicated in other conference or journal and has not been previously published. Potential research topics include (but are not limited to) the following thrust areas:

**CALL FOR PAPERS**

**RF and Microwave Communication and Networks**
- SG-Advanced and 6G Technologies
- Communication theory and systems
- Cellular and Broadband Networks
- Information and Coding Theory
- Cognitive Radio Networks
- Spectrum Issues and Requirements
- Multi-Antenna Communications
- Energy Efficiency and Harvesting
- Device to Device (D2D) Communications
- High Altitude Networks
- Mobility Models and Mobile Networks
- Mobile Backhaul Networks
- Ad hoc and Mesh Networks
- Underwater Communications and Networking
- Aerial Communications and Networking
- Machine-to-Machine (M2M) networks
- Satellite and Radar Communications
- Unlicensed Band Communication
- Smart Antennas

**Optical Communication and Networks:**
- Free Space Optics
- Visible Light Communication and Networks
- Optical Fiber Communication and Networks
- Optical Access Networks
- Quantum Optical Communications
- Optical Datacenter Networks
- Hollow-Core Fiber Communication
- Subsea Communication and Networks
- Fiber-wireless convergence
- Technical economics
- Nanotechnology
- Disaster-Resilient networks
- Optical Backhaul for Wireless Networks
- Optical Network Architectures
- Optical Networks for Cloud/Fog
- Hybrid Fiber-Wireless Networks

**Network Technologies and Applications:**
- Defense Communications and Networking
- Software Defined Networks
- Network Function Virtualization
- 5G/M for Communications and Networking
- Big Data and Analytics in Smart City
- Augmented and Virtual Reality
- Cyber-physical systems and networks
- Power-line Communication
- Smart Grid Communication Networks
- M-Healthcare
- Rural and Remote Connectivity
- Blockchain for Communications and Networking
- Security, Privacy, and Trust
- Signal Processing for Communications
- Network Economics and Pricing
- 5G/6G
- Open Networking
- Spectrum Sharing Models
- Game Theory with Networks
- Emerging Technologies: Integrated Sensing and Communication
- Quantum Communication and Networks
- Satellite Internet
- Intelligent Meta-Surfaces
- Ultra-Reliable and Low-Latency Communications
- Green Communications and Networking
- Molecular Communications
- Nano-communication
- Millimeter-Wave Communications
- Full-Duplex Communications
- Wireless Body Area Networks
- Edge technologies
- UAV Communications and networking
- IoT Networks
- Semantic Communications
- Haptic and Holographic Technologies
- Testbed and Prototype Implementation

After review, all accepted and presented papers will appear in IEEE Xplore. The conference proceedings are indexed in SCOPUS and other major indexing platforms. There will be a few workshops, tutorials, panel discussions, and lightning talks co-located with the conference. Proposals to organize workshops, tutorials, panel discussions, and lightning talks in line with the theme and main conference are also encouraged. The early research forum will provide an opportunity for students and early career professionals to present and discuss their work in progress with experts and peers from around the world. Complimentary access to ANTS CAREER ZONE will be provided to all the participating individuals and sponsors. IEEE ANTS will present BEST PAPER AWARDS for each track during the conference. Several student travel grants will be made available. Extended versions of selected high-rated papers will be invited for publication in reputed journals.