IEEE ANTS is a premier IEEE conference on advanced networking and telecommunication topics. IEEE ANTS is financially and technically supported by IEEE Communications Society. The distinguishing characteristic of IEEE ANTS is the promotion of 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-art research and results from trials and interoperability experiments. The industry, in turn, benefits from exposure to leading-edge research as well as an opportunity to communicate and collaborate with academic researchers regarding practical problems. This year, the theme is “BRIDGE TO CONNECT EVERYTHING.” 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. IEEE ANTS 2019 will be held at BITS Pilani K.K. Birla Goa Campus, one among the six institutes of eminence identified by the Government of India. The theme of the conference will foster an environment for deliberating on different research aspects on the said topic. 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:

1. Wireless Communication & Networks:
   - 5G & Beyond Technologies
   - Cellular & Broadband Networks
   - Ad hoc & Mesh Networks
   - Sensor Networks
   - Mobile Backhaul Networks
   - High Altitude Networks
   - Mobility Models & Mobile Networks

2. Network Applications and Technologies:
   - Internet-of-Things (IoT) Networks
   - Cognitive IoT
   - Edge Computing & Networking
   - Airborne Networks
   - Underwater Networks

3. Emerging Technologies:
   - Massive MIMO
   - Ultra-Reliable & Low-Latency Communications
   - Green Communications & Networking
   - Hybrid Satellite-Terrestrial Networks
   - Molecular Communications
   - Nano-Networking
   - Visible Light Communications
   - Millimeter-Wave Communications
   - Full Duplex Communications
   - Wireless Body Area Networks
   - AI, Machine & Deep Learning over Distributed Networks
   - Vehicular Networks

4. Network Security:
   - Internet Security
   - Network Security
   - Software-Defined Networking (SDN)
   - Cloud & Data Center Networks
   - Software-Defined Networking (SDN)
   - Cloud & Data Center Networks
   - Software-Defined Networking (SDN)
   - Cloud & Data Center Networks

5. Artificial Intelligence & Machine Learning:
   - AI & Machine Learning
   - Deep Learning
   - AI & Machine Learning
   - Deep Learning
   - AI & Machine Learning
   - Deep Learning

6. Cyber-Physical Systems & Networks:
   - Cyber-Physical Systems & Networks
   - Cyber-Physical Systems & Networks
   - Cyber-Physical Systems & Networks
   - Cyber-Physical Systems & Networks
   - Cyber-Physical Systems & Networks
   - Cyber-Physical Systems & Networks

7. Network Resilience:
   - Anomaly Detection in Radar Systems
   - Network Resilience

8. Optical Communications & Networking:
   - Optical Communications & Networking
   - Optical Communications & Networking
   - Optical Communications & Networking
   - Optical Communications & Networking
   - Optical Communications & Networking
   - Optical Communications & Networking

9. Powerline Communication & PoE:
   - Powerline Communication & PoE
   - Powerline Communication & PoE
   - Powerline Communication & PoE
   - Powerline Communication & PoE
   - Powerline Communication & PoE
   - Powerline Communication & PoE

10. Open Source Network Automation:
    - Open Source Network Automation
    - Open Source Network Automation
    - Open Source Network Automation
    - Open Source Network Automation
    - Open Source Network Automation
    - Open Source Network Automation

11. Software-Defined Networks (SDN):
    - Software-Defined Networks (SDN)
    - Software-Defined Networks (SDN)
    - Software-Defined Networks (SDN)
    - Software-Defined Networks (SDN)
    - Software-Defined Networks (SDN)
    - Software-Defined Networks (SDN)

12. Network Architectures for Smart Grid:
    - Network Architectures for Smart Grid
    - Network Architectures for Smart Grid
    - Network Architectures for Smart Grid
    - Network Architectures for Smart Grid
    - Network Architectures for Smart Grid
    - Network Architectures for Smart Grid

13. Network Design:
    - Network Design
    - Network Design
    - Network Design
    - Network Design
    - Network Design
    - Network Design

14. Security, Trust and Privacy:
    - Security, Trust and Privacy
    - Security, Trust and Privacy
    - Security, Trust and Privacy
    - Security, Trust and Privacy
    - Security, Trust and Privacy
    - Security, Trust and Privacy

15. Reliability Performance Analysis:
    - Reliability Performance Analysis
    - Reliability Performance Analysis
    - Reliability Performance Analysis
    - Reliability Performance Analysis
    - Reliability Performance Analysis
    - Reliability Performance Analysis

16. High-performance Routing:
    - High-performance Routing
    - High-performance Routing
    - High-performance Routing
    - High-performance Routing
    - High-performance Routing
    - High-performance Routing

17. Optical Wireless (Free Space Optics):
    - Optical Wireless (Free Space Optics)
    - Optical Wireless (Free Space Optics)
    - Optical Wireless (Free Space Optics)
    - Optical Wireless (Free Space Optics)
    - Optical Wireless (Free Space Optics)
    - Optical Wireless (Free Space Optics)

18. Tactile Internet Access:
    - Tactile Internet Access
    - Tactile Internet Access
    - Tactile Internet Access
    - Tactile Internet Access
    - Tactile Internet Access
    - Tactile Internet Access

19. Game Theory in Networks:
    - Game Theory in Networks
    - Game Theory in Networks
    - Game Theory in Networks
    - Game Theory in Networks
    - Game Theory in Networks
    - Game Theory in Networks

20. Big Data & Analytics:
    - Big Data & Analytics
    - Big Data & Analytics
    - Big Data & Analytics
    - Big Data & Analytics
    - Big Data & Analytics
    - Big Data & Analytics

IEEE ANTS will present Best Paper Awards during the conference. After double-blind review, all accepted and presented papers 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 and PhD Forum. IEEE ANTS 2019 offers several student travel grants of up to INR 7000/- to students who registered and co-authored an accepted paper in IEEE ANTS 2019 on competition basis.

Extended version of selected accepted paper might be included for publication in selected IEEE publications.

For enquiries: ieeeants19@gmail.com

IEEE ANTS 2019 will be held at BITS Pilani K.K. Birla Goa Campus, one among the six institutes of eminence identified by the Government of India.