



IEEE ANTS is a premier IEEE conference on advanced networking and telecommunications 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-practice 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 “**ICT for connecting Humanity**”. 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 2020 will be held at IIT-Delhi, New Delhi, one of the eminent Institute 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.

#### IMPORTANT DATES

##### Main Conference Track:

Paper Submission: 23 September 2020  
Notification: 5 November 2020  
Final Submission: 12 November 2020

##### Call for Workshops:

Proposal Submission: 31 August 2020  
Notification: 5 November 2020

##### Call for Tutorials:

Proposal Submission: 30 Sep 2020  
Notification: 15 October 2020

##### Early Career Research Forum (minimum 2 pages):

Paper Submission: 30 September 2020  
Notification: 15 October 2020

##### Featuring:

Women in Engineering (WiE) Mini Conference: Panels, Keynotes, Tutorials and Technical Track (find a separate track for submission on EDAS). The first author must be female; the presenter must be female. Submission date is same as Main Conference Track.

##### Industry/Start-ups show case:

Please check the details on the conference website

##### Sponsorship:

In order to sustain the quality of IEEE ANTS that the ANTS community and the IEEE communication society have been able to establish thus far, we greatly depend on financial support from reputed organizations and provides you an opportunity to showcase your organizations capabilities to researchers and engineers from all over the world. For more details about sponsorship, please visit: <https://ants2020.ieee-comsoc-ants.org/patrons/> or Please contact Dr. Sudhir Dixit for more information at [sudhir.dixit@ieee.org](mailto:sudhir.dixit@ieee.org)

#### CALL FOR PAPERS

##### Wireless Communication & Network Applications and Networks:

5G & Beyond Technologies  
Cellular & Broadband Networks  
Ad hoc & Mesh Networks  
Sensor Networks  
Mobile Backhaul Networks  
High Altitude Networks  
Mobility Models & Mobile Networks  
Cognitive Radio Networks  
Optical Wireless (Free Space Optics)  
Device-to-Device (D2D) Communications  
Social Network Aware Wireless Network  
Spectrum Issues & Requirements  
Efficiency & Harvesting  
RF Energy Harvesting  
Smart Antennas  
Active Antennas  
MIMO and OFDM  
Routing in Wireless and Mobile Systems  
Security Issues in Infrastructure less Networks  
Network Resilience  
Anomaly Detection in Radar Systems  
**Emerging Technologies:**  
Massive MIMO Ultra-Reliable & Low-Latency Communications  
Green Communications & Networking  
Hybrid Satellite-Terrestrial Networks  
Molecular Communications  
Nano-Networking  
Visible Light Communications  
Millimetre-Wave Communications  
Full-Duplex Communications  
Wireless  
Body Area Networks  
AI, Machine & Deep Learning over

**Technologies:**  
Internet-of-Things (IoT) Networks  
Cognitive IoT  
Edge Computing & Networking  
Airborne Networks  
Underwater Networks  
Software Defined Networks (SDN)  
Cloud & Crowd Computing  
Smartphone Networked Apps  
Content Delivery Networks  
Big Data & Analytics  
Augmented & Virtual Reality  
Cyber-Physical Systems & Networks  
Game Theory in Networks  
Tactile Internet Access  
Control Scheduling Algorithms  
Security, Trust and Privacy  
Cloud & Data Center Networks  
Software-Defined Infrastructure (Networks, Storage, and Compute)  
Core Network Architectures and Protocols  
Reliability Performance Analysis  
Metro & Access Networks  
Optical Communications & Networking  
Submarine Networks  
High-performance Routing  
Powerline Communication and PoE  
Heterogeneous Networks Network Architectures for Smart Grid  
Open Source Network Automation  
xDSL networks

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##### More Information About IEEE ANTS 2020: Please Visit:

<https://ants2020.ieee-comsoc-ants.org/>

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**In case of travel restrictions due to Covid-19 that prohibit physical appearance, IEEE ANTS will allow authors of accepted papers to present and participate remotely if they wish to do so.**

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 2020 offers several student travel grants of up to INR 7000/- to students who registered and co-authored an accepted paper in IEEE ANTS 2020 on competition basis. Extended version of selected accepted paper might be included for publication in selected IEEE publications Submit your paper using EDAS link: <https://www.edas.info/newPaper.php?c=27510&track=102751>. For enquiries: [ants2020@iitd.ac.in](mailto:ants2020@iitd.ac.in)