

IEEE International Conference on Advanced Networks and Telecommunications Systems

13 - 16 December 2021 at IDRBT, Hyderabad, India

IEEE
ANTS™

IEEE
ComSoc™
IEEE Communications Society

IEEE

IDRBT
Explore, Enable, Excel

Institute for Development and Research
in Banking Technology
(Established by Reserve Bank of India)

Patron

- * **Prof. D. Janakiram**
Director, IDRBT, Hyderabad, INDIA

Steering Committee Chair

- * **Dr. Sudhir Dixit**, IEEE

General Chair

- * **Dr. V. Radha**, IDRBT, Hyderabad

Co-General Chair

- * **Prof. T. Rama Rao**

Technical Program Committee Chair

- * **Prof. Neminath Hubballi**,
IIT Indore

Technical Program Committee Co-Chairs

- * **Prof. Sushanta Karmakar**
IIT Guwahati
- * **Dr. Noor Mohammad SK**
IIITDM Kancheepuram
- * **Dr. Sameer Kulkarni**
IIT Gandhinagar

Publications Co-Chairs

- * **Dr. Rajarshi Pal**, IDRBT, Hyderabad
- * **Dr. Vandana Rohokale**

Panel Co-Chairs

- * **Prof. Digambar Pawar**
University of Hyderabad
- * **Prof. Subhankar Dhar**
San Jose State University
- * **Prof. Marco Giordani**
University of Padova, Italy

Industry Expo & Demo Co-Chairs

- * **Prof. Saifullah M A**
University of Hyderabad
- * **Subodh Gajare**, Cisco

Tutorial Co-Chairs

- * **Prof. G Geetha Kumari**
BITS-Pilani, Hyderabad
- * **Dr. Suchetana Chakraborty**
IIT Jodhpur
- * **Prof. Abdelaali Chaoub**, Morocco
- * **Dr. Praveen T**, IIT Hyderabad

Student Travel Grant Co-Chairs

- * **Dr. M. Susila**, SRMIST
- * **Dr. S. Ramesh**

ANTS 2021

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 academic 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 **“Ubiquitous Digital Connectivity and Economic Prosperity for All”**. 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 ubiquitous digital connectivity.

IEEE ANTS 2021 will be held at Institute for Development and Research in Banking Technology (IDRBT) Hyderabad which was established by the Reserve Bank of India (RBI) in 1996. 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.

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
- * Cognitive Radio Networks
- * Optical Wireless (Free Space Optics)
- * Device to Device (D2D) Communications
- * Social Network Aware Wireless Network
- * Spectrum Issues & Requirements
- * Energy Efficiency & Harvesting
- * RF Energy Harvesting
- * Smart Antennas
- * Active Antennas

Network Applications and 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
- * Named Data Networking
- * Routing in Named Data Networking
- * Business Models
- * Testbeds and Pilots

Security and Privacy

- * Security
- * Trust and Privacy
- * Cloud & Data Center Networks
- * Reliability Performance Analysis
- * Malware Propagation
- * Security Issues in Banking and Financial Institutes
- * Security Issues in Infra-structure less Networks
- * Network Resilience
- * Cyber Security
- * Cryptography Trusted Computing
- * Security Analytics

Visit <https://edas.info/newPaper.php?c=28374> for details

IEEE International Conference on Advanced Networks and Telecommunications Systems

13 - 16 December 2021 at IDRBT, Hyderabad, India

IEEE ANTS™

IEEE ComSoc™
IEEE Communications Society

IEEE

IDRBT
Explore, Enable, Excel

Institute for Development and Research
in Banking Technology
(Established by Reserve Bank of India)

WIE Co-Chairs

- * Dr. Mydhili Nair, MSRT
- * Prof. Venkata Mani V
NIT Warangal
- * Dr. M. S. Vasanthi, SRMIST

Early Research Forum Co-Chairs

- * Dr. M. Pushpalatha, SRMIST
- * Dr. Ramya
- * Dr. Varshini Karthik

Publicity Co-Chairs

- * Prof. Revathi V, SRMIST
- * Dr. Abhinav Kumar, IIT Hyderabad

Workshop Committee Co-Chairs

- * Dr. Pravati Swain, NIT Goa
- * Dr. Vinay Chamola, BITS Pilani
- * Dr. Hari Prabhat Gupta, IIT BHU
- * Dr. Syam Kumar P, IDRBT
- * Dr. Abhishek Thakur, IDRBT

Finance Co-Chairs

- * Ms. Lori Ann Chitty Ray
- * Shri Vijay G Belurgikar, IDRBT

Honors and Awards Co-Chairs

- * Dr. Mayank Swarnkar, IIT BHU
- * Prof. Vimal Bhatia, IIT Indore

Lightning Talks Co-Chairs

- * Dr. Abhishek Thakur, IDRBT
- * Dr. Sriganesh Rao

Local Organizing Committee

- * Dr. Abhishek Thakur, IDRBT
- * Dr. Syam Kumar P, IDRBT
- * Pavanesh Raghav
- * Dr. Sai Dhiraj Amuru

Steering Committee

- * Sudhir Dixit
Basic Internet Foundation, USA
- * Deepak Kataria
IP Junction Inc., USA
- * Byrav Ramamurthy
University of Nebraska-Lincoln, USA
- * T. Rama Rao, SRM University,
Chennai

- * User Behaviour Analytics
- * Forensic Analysis
- * Cloud forensics
- * Deceptive Networks
- * Threat Hunting
- * Malware Analysis
- * Forensic Analysis
- * Cloud forensics
- * Privacy Preservation
- * Data Leakage Prevention
- * Security Operations Automation

Emerging Technologies

- * Massive MIMO
- * Ultra-Reliable & Low Latency

Communication

- * Green Communication 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.

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

Submit your paper using EDAS Link <https://edas.info/newPaper.php?c=28374>

The authors of the selected (accepted) papers will be invited to submit the extended versions of their papers to Journal of Banking and Financial Technology (co published by Springer and Institute for Development and Research in Banking Technology). The details about the journal can be found in: <https://www.springer.com/journal/42786>.

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, and the presenter must be female. Submission date is same as Main Conference Track.

Sponsorship: 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. IEEE ANTS provide sponsors an opportunity to showcase their organization capabilities to researchers and engineers from all over the world. For more details about sponsorship, please visit conference

Visit <https://ants2021.ieee-comsoc-ants.org/> for more details

For further info, please contact ants2021@idrbt.ac.in

Important Dates

Paper Submission

July 31, 2021

Acceptance Notification

September 01, 2021

Final Submission

September 30, 2021

WiE Track

July 31, 2021

Panels/Workshops Proposals/
Tutorials/Early Career Forum
Submission: August 10, 2021

Lightning Talks

December 08, 2021

Venue: IDRBT, Castle Hills, Road No. 1, Behind NMDC, MasabTank, Hyderabad - 500057.