



4<sup>th</sup> International IEEE Conference on Advanced Networks and Telecommunication Systems (ANTS)  
IEEE ANTS 2010

[www.ieee-ants.org/2010](http://www.ieee-ants.org/2010)  
First Call for Papers

\*Sponsored by the IEEE Communication Society.\*

**Scope:** Broadband networks are witnessing a rapid convergence in both technologies and delivered services. Next-generation services require unified and scalable technologies spread across the network protocol layers, facilitating a converged service model across all partitions of the network. Advanced integrated systems and network platforms have benefits in terms of deployment cost as well as the ability to provision new services. Motivated by the tremendous success of the first three IEEE ANTS events in Mumbai in 2007 and 2008 and New Delhi in 2009, which highlighted advances in systems and networking, the theme of IEEE ANTS 2010 continues to be communication systems and networking technologies for realizing converged ubiquitous broadband connectivity. To achieve this goal, the conference will feature a technical program of previously unpublished papers, tutorials, talks, and panels on relevant topics bringing together experts from academia, industry, government, and the user community who are involved in the research, design, development, deployment, regulation, and application of communication and networking technologies. The conference will cover technologies that facilitate broadband connectivity and cover advances in the service, networking, transport, and user equipment domains. Making ubiquitous broadband affordable is driving service providers, network operators, and OEMs (Original Equipment Manufacturers) towards converged network solutions and services as a way to reduce CAPEX and OPEX. Further, cost-effective research and development partnerships with knowledge economies in India, China, and Eastern Europe are being increasingly leveraged as can be gauged by the growth of ODMs (Original Design Manufacturers) and software service providers. IEEE ANTS 2010 provides a common meeting ground for the confluence and exchange of ideas with a rich mix of participation from academia, global industry, and other stakeholders. The conference will be held in the financial capital of India – Mumbai – during December 16-18, 2010.

Recognizing the growth of IEEE ANTS in the past three years, IEEE ANTS 2010 will feature three areas covering a variety of topics consistent with the theme of Converged Networks. These areas are:

1. Core Telecom Networks (including topics such as):

- Optical networks
- ROADMs, OXC architectures
- Carrier Ethernet
- Core network architectures and protocols
- Router and switch architectures: IP, SONET/SDH, MSPP
- Multi-domain and multi-layer transport networks
- Storage networks

2. Access Telecom Networks (including topics such as):

- FTTX Networks
- First-mile access networks
- Passive Optical Networks (PON)
- Wireless access networks and WiMax
- Access network architectures and protocols

- Other access networks: ADSL, DOCSIS, VDSL, Cable, etc.
- Cloud computing

3. Network Applications (including topics such as):

- Data security, Content processing/billing, OSS
- IPTV, Video-on-Demand, Telepresence
- Topics in telecommunications
- Mobile backhaul
- Digital Rights Management
- Energy-Efficient networking

**Submissions:** Authors are encouraged to submit a three-page extended abstract via EDAS (<http://edas.info>). Papers will be reviewed for technical content and scope by a technical program committee. All accepted *and* presented papers would be digitally archived through IEEE Xplore. To achieve wide participation, no author may submit more than TWO papers to the conference. If a person is a co-author on more than two papers, only two of these papers will be selected for review and the other papers will be rejected without review.

**Important Dates:**

Paper submissions: ~~July 31, 2010~~ Monday, August 16, 2010, 11: 59 PM US Eastern Time

Notification of acceptance: October 1, 2010.

Registration deadline for authors: October 31, 2010.

Conference dates: December 16-18, 2010.

**General Chairs:**

Biswanath Mukherjee, UC Davis, USA.

Krishna Sivalingam, IIT Madras, India.

Rudra Datta, NCSU, USA.

**Technical Program Chairs:**

Admela Jukan, Technische University of Braunschweig, Germany.

Ashwin Gumaste, IIT Bombay.

**Area Chairs:**

Prasanna Chaporkar, IIT Bombay, India.

Vinod Vokkarane, UMass Dartmouth, USA.

**Industry Chairs:**

Shamim Akhtar, Comcast, USA.

Mallik Tatipamula, Ericsson, USA

**Publicity Chairs:**

Aysegul Gencata Yayimli, Istanbul Technical University, Turkey

**Local Arrangements:**

Ashok Verma, IIT Bombay.

Ashwin Kshirasagar, IIT Bombay.

Deval Bhamare, IIT Bombay.

**Publications Chair:**

Saurabh Mehta, IIT Bombay

**Steering Committee:**

Biswanath Mukherjee, UC Davis, USA.

Sudhir Dixit, HP Labs, India.