

## First Call for Paper

### 3rd International IEEE Symposium on Advanced Networks and Telecommunication Systems (ANTS) IEEE ANTS 2009

December, 14-16, 2009, New Delhi, India

<http://www.ieee-ants.org>

Scope: Broadband networks are witnessing a 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 two IEEE ANTS events in Mumbai in 2007 and 2008, which highlighted advances in systems and networking, the theme of IEEE ANTS 2009 continues to be communication systems and networking technologies for realizing converged ubiquitous broadband connectivity. To achieve this goal, the symposium will feature a technical program of previously unpublished papers, tutorials, talks, and panels on relevant topics bringing together experts from academia, industry, government and the user community who are involved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 symposium 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 2009 provides a common meeting ground for the confluence and exchange of ideas with a rich mix of participation from the academia, global industry and other stakeholders. The symposium will be held in the capital of *India – New Delhi* – during *December 14-16, 2009*.

Recognizing the growth of IEEE ANTS in its first two years, IEEE ANTS 2009 will feature four areas covering a variety of topics consistent with the theme of Converged Networks.

The four 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

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.

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

4. **Networking Broadly Defined** including topics such as:

- Storage networks

- Cloud computing
- Utility computing
- Energy efficient networking
- Personal/wireless networks

**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 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. Every accepted paper must be presented at the conference for it to be archived on IEEE Xplore.

The Industry Session will be organized as a set of panels and will afford a unique opportunity for industry leaders to present their perspectives and share their views on design, development, deployment and regulatory aspects as it pertains to functioning in the global economy. The theme of these panels would be on Converged Services and Networking. Those interested in proposing/organizing panels should submit their proposals in the form of a one-page summary to the Industry Chair before September 1, 2009.

### **Important Dates:**

Paper submissions: ~~July 31, 2009~~ August 15, 2009  
 Notification of acceptance: October 1, 2009.  
 Registration for authors: October 31, 2009.  
 Symposium dates: December 14-16, 2009.

Some highlights about IEEE ANTS 2009 include:

- opportunity to interact with industry stalwarts and leading academics.
- a world-class technical program.
- social program: day-long trip through Delhi.

### **General Chairs:**

Bijendra Nath Jain, IIT Delhi, India.  
 Suresh Subramaniam, George Washington University, USA.

### **Technical Program Chairs:**

Krishna Sivalingam, IIT Madras, India / University of Maryland, Baltimore County, USA  
 Rudra Dutta, North Carolina State University, USA.

### **Area Chairs:**

Debasish Datta, IIT Kharagpur, India - Core Telecom Networks.  
 Rudra Dutta, North Carolina State University, USA - Access Telecom Networks.  
 Krishna Sivalingam, IIT Madras, India - Network Applications.  
 Seshadri Mohan, University of Arkansas at Little Rock, USA – Networking Broadly Defined.

### **Industry Chairs:**

Deepak Kataria, HCL, USA.  
 Dominic Schupke, Nokia Siemens Networks

### **Publicity Chairs:**

Vinod Vokkarane (University of Massachusetts, Dartmouth) for North America.  
 Anpeng Huang, (Peking University, China) for Asia-Pacific.  
 Chava Vijaya Saradhi, (IIT Bombay, India) for Europe.

### **Panel Chairs:**

Huzur Saran, IIT Delhi, India.

Upamanyu Madhow, UC Santa Barbara, USA.

**Local Arrangements:**

Vinay Ribeiro, IIT Delhi, India.

Ashwin Gumaste, IIT Bombay, India

**Tutorials Chair:**

Admela Jukan, Technische Universitat Carolo-Wilhelmina zu Braunschweig, Germany

**Publications Chair:**

Ranjan Mallik, IIT Delhi, India.

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