



7th IEEE International Conference on Advanced Networks and Telecommunication Systems (ANTS)

Sponsored by



Dec. 15-18, 2013
SRM University, Chennai, India

**Preliminary Call for Papers/Tutorials/
PhD Forum Abstracts**

Submission Deadline

July 1, 2013 (Technical Papers)

**Aug 1, 2013
(Tutorials, Panels, Exhibits/Demos, PhD Student Forum)**

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

ABOUT IEEE ANTS

ANTS is the premier IEEE forum on networking and telecommunications topics in India and the only conference financially sponsored 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-practice and results from trials and interoperability experiments. The industry in turn benefits by exposure to leading-edge research in networking as well as the opportunity to communicate with academic researchers regarding practical problems that require further research.

SCOPE

We are witnessing a paradigm shift in networking where the end user demands and cloud computing based service paradigms are influencing evolving network architectures, system designs and service delivery models. Over-the-Top (OTT) players, consumer electronic vendors, IT providers and 3rd party software developers have entered the service delivery value chain fostering an open environment challenging the hegemony of traditional network operators. IT & Telecom, hitherto distinct domains, are now spoken of as ICT (Information and Communications Technologies) symbolizing the close inter-working of these disciplines in the emerging service delivery architectures. Different vertical industries such as energy utilities, health-care, automotive, banking & finance, retail, media entertainment are leveraging network technologies in innovative ways to offer branded services directly or in partnership with network providers. Machine-to-Machine (M2M) and Internet of Things (IoT) have opened new vistas for communications and networking technologies.

BOOK POST

IEEE ANTS 2013 will feature a rich industry program comprising of keynote addresses, invited talks and panel discussions to complement a high quality technical program of peer-reviewed papers, tutorials, and Ph.D. student forum presentations bringing together experts from industry, academia and government. The conference will provide an exciting meeting ground for the confluence and exchange of ideas among participants from all over the world.

A subset of the accepted papers will be considered for special issues of journals including the Springer Photonic Network Communications Journal.

IEEE ANTS 2013 will feature both long (6-page) and short (3-page) papers in three broad areas. Authors are strongly encouraged to address topics of interest to both industry and academia, focusing on (but not limited to) the following thrust areas:

1. Wireline Networks (including topics such as):

- Cloud and data center networks
- Software-Defined Networks
- Core network architectures and protocols
- Metro and access networks
- Optical communications and networking
- Architectures for high-performance router and switches
- Storage networks
- Grid networks
- Power line communication networks
- Network architectures for the Smart Grid

2. Wireless Networks (including topics such as):

- Ad hoc mobile networks
- Cellular and broadband wireless networks (LTE, LTE+, etc.)
- Cognitive radio networking
- Convergence of optical and wireless access networks
- Machine to Machine Communications
- Mobile backhaul networks
- Mobility models and mobile networks
- Next generation mobile/wireless networks
- Networks for Internet-of-Things
- Optical wireless (free space optics)
- Radio access networks

- Satellite communication networks
- Sensor networks and embedded systems
- Wireless access networks
- Wireless body area networks
- Wireless grid networks
- Wireless local and personal area networks
- Wireless mesh networks
- Wireless opportunistic networks

3. Network Applications and related (including topics such as):

- Cyber-physical systems and networks
- Data and File sharing
- Embedded Analytics
- Energy-Efficient Green networking and Sustainability
- IPTV, Video-on-Demand, Telepresence, Collaboration tools
- M-Health, E-Health and Smart Health-care
- Middleware services
- Network virtualization
- Online social networking
- Peer-to-peer networks
- Security, trust and privacy
- Smartphone networked apps
- Standardization
- Telecom service assurance
- Triple-play architectures and applications

SUBMISSION GUIDELINES

(1) TECHNICAL PAPERS: Authors must submit their papers using EDAS (<https://edas.info/newPaper.php?c=14679>) on or before July 1, 2013. All papers will be blind-reviewed for technical content and scope by a technical program committee. All accepted and presented papers would be digitally archived through IEEE Xplore.

The page limits are SIX pages for the long paper track and THREE pages for the short paper track. Papers should be in PDF format, two columns, font size 10 or greater and compliant with other IEEE ANTS manuscript guidelines. Submitted papers must be unpublished and not currently under review for any other publication. Authors of accepted papers must sign an IEEE copyright release form and also present their paper at the conference to be included in IEEE Xplore.

(2) TUTORIALS: Proposals are solicited from domain experts to cover current topics directly relevant to the conference such as (but not limited to): Cloud and Data Center Networks, IPTV, Video-on-Demand, Smartphone Networked Apps, Software Defined Networking (SDN), Information Centric Networking, Wireless Networks, Optical networks, etc. Proposals must provide an in-depth survey of a chosen topic with the option of describing a particular piece of work in detail and a meaningful summary of open issues in the topic. Proposed tutorials should be comprehensive, informative, and appealing to ANTS 2013 attendees.

Each tutorial will be for 3.5 hours with a half-hour break. Tutorial instructors must make a commitment to prepare the tutorial materials (e.g., slides) reflecting high quality standards. All tutorials will be featured prominently in the conference program.

Each tutorial proposal should have: (i) A 1-page abstract that includes: Title of the tutorial, Name and affiliation and a short biography of the instructor(s), Description of the tutorial scope, Intended audience; and (ii) A description at most 2 pages long that includes: Main topics (preferably with some description) to be covered during the tutorial; if relevant, a description of real-world systems, experiences and/or case studies, details of the new knowledge / perspectives gained by the audience attending the tutorial.

Tutorial proposals should be directly EMAILED to the Tutorial Co-Chairs by Aug 1, 2013.

(3) PANELS: Panel proposals should contain the Panel Title, Scope, Lead Panelist and a list of 3-4 Panel Members; proposals should be directly **EMAILED to the Panel Co-Chairs by Aug 1, 2013.**

(4) Ph.D. STUDENT FORUM: A 2-page extended abstract describing their Ph.D. work (preferably work-in-progress and/or planned) must be submitted. The abstracts are to be directly **EMAILED to the Ph.D. Student Forum Co-Chairs by Aug 1, 2013.**

(5) EXHIBIT/DEMOS: IEEE ANTS 2013 will include exhibit/demonstration sessions that shall provide a forum to present and discuss: industry/academia demonstrations of new products, applications and techniques, practical implementations; industrial and commercial developments, research testbeds and implementations.

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A 3-page extended abstract describing the main contributions of the exhibits/demo and the merits of the proposed ideas must be submitted. Demonstration submissions should include the space, power, network connectivity requirements and/or any other equipment-specific requirements. The documents must contain the authors' names, affiliations, contact information and the designated corresponding author. Proposals will be evaluated mainly based on their potential to stimulate interesting discussions, exchange of ideas and promote collaborations. The proposal must be directly EMAILED to the Exhibit/Demo Co-Chairs by Aug 1, 2013.

Important Dates:

Paper submissions: July 1, 2013

Tutorial, Panel, Exhibits/Demos, PhD Student Forum Submissions: Aug 1, 2013

Notification of acceptance: September 1, 2013

Camera-Ready Paper Submission and Author Registration: October 1, 2013 (For Technical Paper, Exhibit/Demo and PhD Student Forum)

Early-bird Registration Ends: Nov. 15, 2013

Conference dates: December 15 - 18, 2013

IEEE and IEEE Communications Society Policies

All IEEE ANTS 2013 technical papers must be associated with an author registration at the FULL rate. For authors presenting multiple papers, one FULL registration is valid for up to three papers. IEEE reserves the right to exclude a paper from distribution after the conference (e.g., removal from IEEE Xplore) if the paper is not presented at the conference.

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