IEEE ANTS 2014

8th IEEE International Conference on Advanced Networks and Telecommunication Systems (ANTS)

Sponsored by

IEEE

IEEE COMMUNICATIONS SOCIETY

Dec. 14-17, 2014, New Delhi, INDIA

Call for Papers/Tutorials/ PhD Forum Abstracts

Submission Deadline

August 22, 2014 (Technical Papers)

September 15, 2014
(Tutorials, Panels, Exhibits/Demos, PhD Student Forum)

Paper submission link: https://edas.info/newPaper.php?c=18053

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. One of the distinguishing goals of IEEE ANTS is to promote 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) haveopened new vistas for communications and networking technologies.

BOOK POST

IEEE ANTS 2014 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.

IEEE ANTS 2014 will feature both long (6-page) and short (3-page) papers in three broad areas. Authors are strongly encouraged to submit original, high quality research papers addressing 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 and OpenFlow
- Core network architectures and protocols
- Metro and access networks
- Optical communications and networking
- Architectures for high-performance routers and switches
- Storage networks
- Green communication networks
- High-Performance computing networks
- Network architectures for the Smart Grid
- Power line communication networks
- Disaster-aware and survivable networking

2. Wireless Networks (including topics such as):

- Spectrum management
- Mobile ad hoc networks
- Wireless mesh networks
- Cellular and broadband wireless networks (LTE, LTE-A, 5G, etc.)
- Cognitive radio networks
- Convergence of optical and wireless access networks
- Converged cloud radio access networks
- Green wireless communication networks
- Machine-to-Machine (M2M) Communications
- Mobile backhaul networks
- Next generation mobile/wireless networks
- Networks for Internet-of-Things (IoT)
- Optical wireless (free space optics) networks
- Satellite communication networks

- Sensor networks and embedded systems
- Smart grid communication networks
- Vehicular ad hoc networks
- White space networks
- Wireless body area networks
- Wireless local and personal area networks

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

- Cyber-physical systems and networks
- Big Data and e-Science Applications
- Data and File sharing
- Embedded Network 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 in networks
- Smartphone networked apps
- Standardization
- Telecom service assurance
- Triple-play architectures and applications

SUBMISSION GUIDELINES:

(1) **TECHNICAL PAPERS: Authors must submit their papers using EDAS on or before August 22, 2014.** All 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.

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 for the paper to be included in IEEE Xplore.

A subset of the accepted papers will be considered for special issues of journals including the Springer Photonic Network Communications Journal. A small number of papers may be accepted for poster presentation instead of oral presentation.

(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 2014 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 single 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 (at kalimani.venkatesan@aricent.com AND vijamann@in.ibm.com) by Sep 15, 2014.

(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 (pamelakumar@ieee.org) by SEP. 15, 2014.

(4) Ph.D. STUDENT FORUM: A single page extended abstract describing their Ph.D. work (preferably work-in-progress and/or planned) must be submitted. Please include title, name of student, advisor(s), department and institution information. The abstracts are to be submitted through EDAS (Link: https://edas.info/newPaper.php?c=18053&track=59391) by Sep 15, 2014.

(5) EXHIBIT/DEMOS: IEEE ANTS 2014 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.

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 abstracts are to be submitted through EDAS (Link: https://edas.info/newPaper.php?c=18053&track=65241) by SEP. 15, 2014.

Important Dates:

Paper submissions: August 22, 2014

Tutorial, Panel, Exhibits/Demos, PhD Forum Submissions: Sep 15, 2014

Notification of acceptance: October 15, 2014

Camera-Ready Submission and Author Registration: October 31, 2014
(For Technical Paper, Exhibit/Demo and PhD Student Forum)

Early-bird Registration Ends: Nov. 15, 2014
Conference dates: December 14 - 17, 2014

IEEE and IEEE Communications Society Policies

All IEEE ANTS 2014 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. paper is not presented at the conference.

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