



IEEE International 5G Summit and 28th GISFI Standardization Series Meeting (GSSM)

Theme: Digital India

March 17 and 18, 2017

Venue: SENSES Hotel, Sector V, Salt Lake, Kolkata

Organized by IEEE ComSoc Kolkata Chapter jointly with IEEE CAS, Kolkata Chapter

Call For Participation and Research Proposal for Research Forum Abstract

About the 5G Summit:

Since the inception of mobile networks and associated technologies there had been a great demand from the users to avail a high data rate supported with good QoS. Accordingly there had been phenomenal evolution of mobile technologies starting from Analog towards full Digital through successive generations. With the enormous success of 4G, the researchers, Industry leaders, Innovators and Service Providers are all working to achieve greater throughput with much lower latency to support real time mobile control and device to device (D2D) communication including Internet of Things (IoT) through 5G mobile technology. Big data, Cyber Security and Millimetre wave technology are also being given due emphasis. The 5G mobile networks would be the key enabling technology to achieve more data rate and higher bandwidth to support new services and businesses by 2020. However, rigorous attempts are being taken to standardize the 5G technology throughout the globe. IEEE 5G summit is now providing a platform for the people in the above community to collaborate and exchange ideas belonging to emerging 5G technology to develop the standards followed by rapid deployment. Several 5G summits have been organized throughout the globe including IIT Patna and IETE, New Delhi in 2016 to achieve the goals.

It is our proud privileged to announce that the City of Joy, Kolkata, has been selected as the next venue of the 5G summit in India. In the Indian context several digital technologies have been emerged to support better communication directed towards new business opportunities with the help of 5G technology. It is expected that the active participation from the academic community, Industry leaders, Central and State Govt. Officials, Policy Makers, Original Equipment Manufacturers (OEMs) and Service Providers would make the summit very effective if India-specific use-cases immerses from the summit for inclusion in 5G standardization and development.

Can visit: www.5gsummit.org

About the GISFI:

GISFI: Global ICT Standardization Forum for India is an Indian Standardization body active in the area of Information and Communication Technologies (ICT) and related application areas, such as energy, telemedicine, wireless robotics, biotechnology. GISFI is an effort to create a new coherence and strengthen the role of India in the world Standardization process by mapping the achievements in ICT in India to the global Standardization trends. Further, GISFI is focused on strengthening the ties among leading and emerging scholars and institutions in India and the world; to develop and cultivate a research and development agenda for the field.

GISFI addresses the research and product development of ICT in India and provides a bridge towards the globalization of the Indian achievements; the issues of technology, governance and development; and a platform for raising an awareness of the importance and the internationalization of the higher education in the field are supported by the joint partnership with the Govt. of India. The working group in GISFI will draw knowledge from academia, business, civil society, and Government /Policy-making circles.

THIS 5G SUMMIT AND GSSM WILL BE GRACED BY MANY ACADEMIC LUMINARIES AND EXPERIENCED PRACTISING INDUSTRY PERSONNEL FROM ABROAD AND INDIA TO GET AN ORIENTATION OF PRESENT RESEARCH AND STANDARDIZATION EFFORT GOING ON WORLDWIDE IN THE 5G DOMAIN. THIS SUMMIT WOULD PROVIDE A WONDERFUL OPPORTUNITY FOR ALL RESEARCH COMMUNITIES FROM INDUSTRY, ACADEMICS AND GOVT. ORGANIZATIONS TO COME FORWARD WITH THEIR RESEARCH PROPOSALS TO BE PRESENTED IN FRONT OF DIGNITARIES AND SHARE THEIR RESEARCH INTUITIONS AND VIEWS OVER THE POSSIBLE 5G TECHNOLOGIES, STANDARDIZATION ASPECTS TO PAVE THE PATHS TOWARDS THE R & D IN NEAR FUTURE.

IEEE 5G Summit on Digital India and GSSM will feature a rich industry program comprising of keynote addresses, invited talks and research forum presentations from young researcher at graduate and postgraduate and Ph.D. students, bringing together experts from industry, academia and government. This platform will provide an exciting meeting ground for the confluence and exchange of ideas among participants from all over the world.

Accordingly **one page extended abstract** from prospective researchers from Industry and Academia is being invited with their proposals on the various aspects of 5G research related to the theme of Digital India as outlined for consideration of presentation in this 5G Summit. Topics of interest include, but are not limited to:

- 5G Requirement Scenarios
- 5G Air Interface
- mm Wave Communication
- IoT/M2M/D2D Communication
- 5G Heterogeneous Networks
- Applications of 5G like Road Safety, entertainment, advertising, Health Services etc.
- e-governance, e- commerce and 5G services
- QoS issues for 5G
- Non- Cellular Technologies for 5G i.e. Visible Light Communications
- Big Data analytics
- Security issues for 5G
- Cognitive Radio for 5G
- Energy and Spectral efficiency for 5G
- Cloud Computing
- Radio Access Network
- IMT-2020 Systems
- eMBB and mMTC
- Spectrum Pooling
- FiWienhanced LTE-A
- FBMC

Prospective researchers are requested to submit the one page **Extended Abstract** with the Inclusion of Title, Author(s) list, Affiliation, Motivation, Methodology and Outcome or expected **Outcome by Feb 20, 2017 to the following email:**

comsoc5gsummit.kolkata@gmail.com

addressed to Academic Co-ordinators: **Dr. Sudipta Chatterjee and Ms. Sangita Roy**

For any other information and support contact the following person:

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After review by the experts, the outcome of the submissions for presentation in the 5G Summit would be communicated by **26 Feb 2017 for the presentation**. The presentation of research proposal is **absolutely based on Pre-registration basis** which is to be completed positively by **03 March 2017**.

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