

Two Day International Workshop on 5G Secured Smart City

Organized by
**Department of Electronics and
Communication Engineering, National
Institute of Technology Patna**

20-21 March, 2017



Patron

Prof. (Dr.) Asok De
Director, NIT Patna

Coordinators

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Department of Electronics and Communication
Engineering, NIT Patna
Patna-800005

In- collaboration

GISFI, India

Technical Sponsor

**IEEE Communication Society,
Kolkata Chapter & IETE, India**

Supported by

TEQIP-II, NIT Patna

About NIT Patna

National Institute of Technology Patna is the 18th National Institute of Technology created by the Ministry of H.R.D. Government of India after rechristening the erstwhile Bihar College of Engineering Patna on 28.01.2004. The Institute is situated on the south bank of holy river Ganges behind Gandhi Ghat (where the ash of father of the Nation, Mahatma Gandhi was offered in the river Ganges). The Institute imparts high level education training, research and development in science, engineering technology and humanities along with high quality education and values at UG, PG and Ph.D. level. At present the Institute offers courses in six major technical disciplines viz. Architecture, Civil Engineering, Computer Science & Engg., Electrical Engg., Electronics & Communication Engg. and Mechanical Engg. It also consists of well-established departments of Physics, Chemistry, Mathematics and Humanities and Social Sciences.

GISFI, India

The Global ICT Standardization Forum for India (GISFI) 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. India plays an increasingly important role in the processes of globalization in the field of the communications technology industry and research and development. 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 Government of India.

Theme of the Workshop

Smart city conceives with an idea of having autonomous entities that can think intelligently for themselves and

make our lives easier, safer and cleaner. The components that make a city act smart are smart people, smart economy, smart utility, smart governance, smart environment, smart mobility etc., with all of them interconnected. It is anticipated that some 50 billion devices will be connected to mobile networks worldwide by 2020. A fast, responsive, and stable mobile network that can handle a vast amount of data is the need of the time. 5G will be able to fulfil these network requirements as it is expected to support for M2M Communication. This is the ability for machines to communicate with one another on a large scale with negligible human input to make our future cities smarter, cleaner, and safer places to live. Advanced ICT Technologies are essential part in handling the challenges in the development of innovative Secured Smart City. They are 5G, Bigdata, Internet of Thing (IoT) and artificial intelligence.

Following are the key topics –

- Technologies for Smart Cities : The role of Machine to machine (M2M) communication and Internet of Thing (IoT) in 5G enabled smart cities
- System approaches to Smart Cities transformation
- Challenges in 5G secured ‘Smart Cities’- Interoperability and the need for standards, Need for appropriate business models, Reliability and accuracy, data privacy, water and e-waste management demands, Citizen engagement etc.
- Energy-Aware Systems and Technologies for smart city
- Social aspects of Smart Cities
- Smart cities in Indian context– The role of 5G
- Role of Government of India in facilitating 5G enabled smart cities

Resource Persons

Internationally acclaimed faculty members from premier institutions like IITs, etc. including IEEE Fellows. Along with that, highly experienced industry personnel from companies like TCS R&D, NEC, IBM and Govt. personnel from telecom sectors. The following are the name of few eminent speakers, who have already agreed to take part in this programme.

- **Prof. Ramjee Prasad, Aarhus University, Denmark**
- **Prof. R V Rajakumar, Director, IIT Bhubaneswar**
- **Dr. Ashok Chandra, Former Wireless Advisor**
- **Dr. Arun Golas, Former Deputy Director General, Telecom Engineering Centre, New Delhi**

- Dr. Balamuralidhar P, Principal Scientist and Head Innovation Labs, Bangalore
- Dr. Tapas Chakravarty, Principal Scientist, TCS Research & Innovation, Kolkata
- Dr. Sourav Dutta, IBM, Kolkata
- Dr. Preetam Kumar, IIT Patna
- Dr. Pradheep kumar S from NEC India Chennai

Who Can Participate

Faculty members of UGC/AICTE recognized Universities and Engineering colleges all over India, research scholars, M. Tech. final year students, practicing Communication and RF & microwave engineers, professionals and functional managers, administrators in the mobile phone industry

Registration Fee

- ✚ Faculty Member: INR 1000
- ✚ Ph.D/PG Students: INR 500
- ✚ Industry Personnel: INR 2500

Registration fee includes Registration kit, working lunch, Tea and Snacks

Registration Process

Filled in application form (downloaded from the website www.nitp.ac.in) in the prescribed format duly signed along with the demand draft has to be sent to the coordinator by post to **Dr. Seemanti Saha, Assistant Professor, Department of Electronics and Communication Engineering, NIT Patna, Patna-800005 (Bihar), INDIA**. It is also mandatory to send scanned copy of filled application form and DD through mail to seemanti@nitp.ac.in. The DD must be drawn in favour of “**Director, NIT Patna**” payable at Patna. Registration fee can also be deposited through NEFT and the hard copy of bank transaction has to be attached with the application. The bank details are as follows:

Bank Name: Allahabad Bank, NIT Patna
A/c No: 50323610510
IFSC Code: ALLA0212286
A/c Holder Name: Registrar, NIT Patna

Last date of submission of application: 18.12.2016

Accommodation

No accommodation will be provided by NIT Patna.

Location

Patna Railway Junction is well connected to almost all parts of the India. NIT Patna is located within a distance of only about 6 km from the Patna Railway Junction. Also Patna Jay Prakash Narayan International Airport is well connected via Air to the whole India. There are direct flights to Patna from Kolkata, Delhi, Chennai, Mumbai, Bengaluru, etc. The Institute is located within a distance of about 11 km from the airport. Taxis, Auto-rickshaws, are available as conveyance.

Address for Correspondence

Enquires should be addressed to:

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 Email: seemanti@nitp.ac.in

Advisory Board

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Two Day International Workshop on 5G Secured Smart City (March 20-21, 2017)

REGISTRATION FORM

1. Name (block letter):
2. Gender:.....
3. Designation
4. Organization:
5. Address for communication:
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- Pin code: Ph. No.:
- Fax No.:
- E-mail:
6. Highest Academic Qualification:
7. Specialization:
8. Experience (in years):
 (a) Teaching:
- (b) Industrial:
9. DD No. : Date:
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Please register me for the workshop on “5G Secured Smart City” to be held at NIT Patna

Place:

Date:

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 Signature of the applicant