

Final Program

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

March 17-18, 2017

Theme: Digital India

Venue

SENSES Hotel, DN-26, Sector V, Salt Lake, Kolkata- 700091, India



Organized by: IEEE ComSoc Kolkata Chapter jointly with IEEE CAS, Kolkata Chapter and GISFI

Website: <http://ewh.ieee.org/r10/calcutta/comsoc/5gsummit.htm>

General Chair: Prof. Iti Saha Misra, Dept. of Electronics and Telecommunication Engineering, Jadavpur University, Kolkata, ComSoc Chairperson IEEE Kolkata Chapter, India.

General Co-Chair: Prof. Suvra Sekhar Das, GS Sanyal School of Telecommunication, IIT Kharagpur, India.

Contact Persons:

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Final Program Schedule

Day 1-A: Friday March 17, 2017 (IEEE 5G Summit: Digital India)

08.30- Onwards (REGISTRATION)
09:00 – 10:30 (Grand Opening)
09:00-09:05 : Welcome Ceremony: Inaugural Song
09:05 -09:15: Welcome Speech By General Chair, Prof. Iti Saha Misra, Dept. of Electronics and Telecommunication Engineering, Jadavpur University, Kolkata, India, IEEE ComSoc Kolkata Chapter Chairperson
9.15-9.20 Address by Guest-of-Honour By Dr. Krishna Gupta, IAS, Principal Secretary, IT & Electronics, Govt. of West Bengal
09:20 – 9:30: Visionary Talk By Prof. Ramjee Prasad, Founder Chair -GISFI, Founder President - CTIF Global Capsule (CGC), and Professor of Future Technologies for Business Ecosystem Innovation (FT4BI), Aarhus University, Denmark
9.30 – 9:40: Inaugural Talk : IEEE 5G Initiative By Dr. Ashutosh Dutta, IEEE 5G Initiative Co-Chair, Lead Member of Technical Staff, AT&T, USA
9.40 – 9:50: Plenary Talk By Guest-of-Honour, Shri Talleen Kumar, IAS, Principal Secretary, Consumer Affairs, Government of West Bengal
9:50 – 10:15: Address by Special Guest By Dr. Tulika Pandey, Scientist 'F'/ Director, Ministry of Electronics & Information Technology (MeitY), Govt. of India
10:15 – 10:25: Address by Special Guest By Prof. Chiranjib Bhattacharjee, DEAN, FET, Jadavpur University
10.25-10.30 Address by Chief Guest and Lightning of the Lamp: By Shri Bratya Basu, Hon'ble Minister, Dept. of IT & Electronics, Govt. of West Bengal
10: 30-10:40: Vote of Thanks By Prof. Saili Kumar Sanyal, IEEE Kolkata Section CAS Chair and ComSoc Excom Member, Former IEEE Kolkata Section Chair
10:40 – 11:00 (HIGH TEA/COFFEE)

Final Program Schedule

Day 1-B: Friday March 17, 2017 (IEEE 5G Summit: Digital India)

11:00-12:30: Keynote Session-1

Session Chair: Prof. Debashis Dutta, IIT Kharagpur

Keynote Speaker 1: "System aspects of Digital India – Requirements, Architecture and Standardization Status", Mr. Vinosh Babu James, Technical Standards, Qualcomm India.

Keynote Speaker 2: "5G - Out of the Labs and into the Neighbourhood", Indrajit Sanyal, Senior Director, Ericsson Global Services

Keynote Speaker 3: "5G Transforming Service Providers' Business", Prakash Suthar, Principal Architect based in US, CISCO

Keynote Speaker 4: 'Innovations in Cellular Core Network for IoT and Machine Type Communications', Mr. Vinoy Gupta, CTO Polaris Networks.

12.30 - 13.30 Keynote Session-2

Session Chair: Prof. Rajakumar, Director, IIT Bhubaneswar

Keynote Speaker 5: Prof. Peter Lindgren, Professor, Multi Business Model Innovation and Technology, Aarhus University, Denmark.

Keynote Speaker 6: "Platform based approach for Prototyping 5G Research", Mr. Tarun Gupta, Business Development Manager –RF, National Instrument, India

Keynote Speaker 7: "Digital Payments", Mr. Sumit Misra, General Manager, Technology Head of Innovation, RS Software, Kolkata.

Lunch Break 13.30 -14.30

14.30- 15.30 Invited Talks Session

Session Chair: Prof. B.P Sinha , ISI Kolkata

Invited Talk 1: "MIMO in 5G", M Chandrasekaran, Senior Research Engineer Centre of Excellence in Wireless Technology (CEWiT).

Invited Talk 2: "Spectrum Requirements for IoT Applications", Dr. Ashok Chandra, Former Wireless Advisor, Govt. of India.

Invited Talk 3: "Applications 5.0 - Riding the 5G wave", Mr. Ravikiran Annaswamy, CEO, Innohabit Technologies Pvt Ltd Education Co-Chair, IEEE 5G Initiative

15.30 - 16.30 : Research Abstract Presentation

Session Chair: Prof. Debashis Saha, IIM Calcutta

Abstract 1: Enabling 5G Assisted IoT Solutions for Intelligent Transportation system in Indian Cities – Tamal Chakraborty, Doctoral Student, Dept. of ETCE, Jadavpur University

Abstract 2: Waveforms for 5G, Shashank Tiwari, G S Sanyal School of Telecommunications IIT KGP

Abstract 3: 5G and IoT System based on Millimeter Wave Radio, Rabindranath Bera, HoD, ETCE , Sikkim Manipal Institute of Technology

Abstract 4: Energy Efficient Cognitive Radio Network for IoT: A capacity enhancing and cost effective solution for 5G, Tanumay Manna, Doctoral Student, Dept. of ETCE, Jadavpur University

Abstract 5: Visible light communication for 5G System, Dr. Navin Kumar, Amrita School of Engineering, Bangalore

Tea Break : 16.30-17.00

17:00–18:00: Panel Session: Security challenges with 5G technology- A Cross Industry View

Moderator: Mr. Sandeep Sengupta- ISOAH Data Securities Pvt. Ltd.

Panelists:

Dr. Ashutosh Dutta- Lead Member of Technical Staff, AT&T, USA

Dr. Sourav Dutta- IBM, Kolkata

Mr. Sumit Poddar- CESC, Kolkata

Mr. Rana Pratap Sircar- Director, GSI SDU IT & C, Head of Information, Ericsson Global Services, Gurgaon

Nirupam Sen- Business Head (East), BSI Group India Pvt. Ltd.

18:00-19:00 (Cultural Program with Tea/Soft Drinks)

19:00–20:30 (Gala Dinner)

Final Program Schedule

Day 2-A: Saturday March 18, 2017 (28th GSSM)

08.30- Onwards (REGISTRATION)

9:00 – 9:30 : GISFI Opening Session:

Chair: Lt. Gen. AKS Chandele PVSM, AVSM (Retd), President, IETE

“GISFI Future Strategy”, Prof. Ramjee Prasad, Founder Chair, GISFI, Founder President, CTIF Global Capsule (CGC), and Professor, Future Technologies for Business Ecosystem Innovation (FT4BI), Aarhus University, Denmark

“IETE and GISFI”, Dr. Smriti Dagur, Former President, IETE

Address by Guest of Honor: Mr. R. N. Jha, Chief General Manager, BSNL, Kolkata, India

Vote of Thanks- By Mr. T.R. Dua, Vice Chair, GISFI

9.30-10.30 : Special Invited Talk Session

Session Chair: Dr. Ashok Chandra, Ex-Wireless Advisor, Govt. of India

Invited Talk 1: Prof. Saswat Chakborty, Head G.S.Sanyal School of Telecommunications
Indian Institute of Technology Kharagpur

Invited Talk 2: “Optical Backbone Networks for Telecommunication” Prof. Debashis Dutta, Dept. of E & ECE, Indian Institute of Technology Kharagpur

Invited Talk 3: “Role of Satellite in 5G”, Dr. Kalyan Bandhyopadhyay, Dept. of E & ECE, Indian Institute of Technology Kharagpur Ex-Scientist, Space Application Center, ISRO, Ahmedabad

10:30 - 11:00 (High Tea/Coffee)

11:00 – 12:00 : GISFI Session 1: Security and Privacy

Chair: Dr. Anand R. Prasad, NEC

Vice Chair: Dr. Debu Nayak, Huawei

Secretary: Dr. Balwant Sharma, Individual Member

Invited Talk 1 : Dr. Debabrata Nayak, Chief Security Officer, Huawei Telecom, India.

Invited Talk 2: “Smart grid Security”, Mr. Pallab Ganguly, Deputy Manager, Corporate Information System, CESE Pvt. Ltd, Kolkata

Invited Talks: (3) Dr. Mayur Dave, Reliance Telecom; (4) Dr. Sanjay Kumar, BIT Mesra, Ranchi

12:00- 13:00: GISFI Session 2: Cloud Service Oriented Network (CSeON)

Chair: Dr. Parag Pruthi, NIKSUN

Vice Chair: Dr.Niranth Amogh, Huawei

Invited Talk 1: "Software Defined Network" - Samar Shailendra, Scientist in TCS Research Bangalore and the Vice Chair for M2M Workgroup at TSDSI TCS Bangalore

Invited Talks:(2) Dr. Suvra Sekhar Das, IIT Kharagpur; **(3)** Dr. Preetam Kumar, IIT Patna

13:00-14:00 (Lunch Break)

Final Program Schedule

Day 2-B: Saturday March 18, 2017(28th GSSM)

14:00 -14:45: GISFI Session 3: Spectrum

Chair: Dr.Pawan K. Garg, Former Member, Radio Regulations Board, ITU

Vice Chair: Dr.Tilak Raj Dua, GISFI

Secretary: Dr. Sanjay Kumar, BIT, Mesra,

Invited Talks:(1) Dr.Navin Kumar, Amrita School of Engineering, Bangalore; **(2)** Prof. N. K. Srivastava, SRMGPC, Lucknow

14:45 -15:45: GISFI Session 4: Internet of Things

Chair: Dr. Balamuralidhar P., TCS, India

Vice Chair: Dr.Preetam Kumar, IIT Patna

Invited Talks: (1) Dr. Sriganesh Rao, TCS, Bangalore, India; **(2)** Dr. Arun Golas, RetdSr DDG DoT, Govt. of India
(3) Kasturi Bhattacharjee, Senior Director, Ericsson Global Services

15:45 -16:15: GISFI Session 5: Special Interest Group

Chair: Dr. Krishna Sirohi, i2TB Research Foundation & GISFI

Vice Chair: Dr. Ashutosh Dutta, AT&T

Invited Talks: (1) Prof. Vandana Rohokale, SKNSITS, Lonavala;

16:15-16:30 (Tea break)

16:30 -17:30: Research Abstract presentation

Session Chair : Prof. Suvra Sekhar Das, G.S Sanyal School of Telecommunication, IIT KGP

Abstract 1: "Energy Efficient Resource Management For Network Densification in Green 5G" Arijeet Ghosh, Doctoral student, Department of ETCE, Jadavpur University

Abstract 2: "Ultra Dense Network for 5G", Aritra Chatterjee, Doctoral Student, G.S.Sanyal School of Telecommunications, Indian Institute of Technology Kharagpur

Abstract 3: "Energy Emergency Communication and Location Tracking System for Vehicle Using 5G: An IoT Approach" Subha Koley, Doctoral student, Indian Institute of Engineering Science and Technology, Shibpur, India

Abstract 4: "Channel Design for 5G Mobile Technology in the Context of Air Interface", Moloy Kumar Chowdhury Department of Electronics and Telecommunication Engineering, Kalna Polytechnic

Abstract 5: "Emerging Technological Advancements and Network Architecture for 5G", Anshu Mukherjee, Dept. of Information & Telecommunication, SRM University, Chennai

17:30 – 18:00 : GISFI Session 6: Future Radio Network

Chair: Dr. Krishna Sirohi, i2TB Research Foundation, India

Vice Chair: Dr.Navin Kumar, ASE, Bangalore

Invited Talks: (1) Dr.Kalyan Sundaram, SAI Technology Pvt Ltd, Chennai;

18:00-18:30: GISFI Session 7: Green ICT

Chair: Dr. Basavaraj Hooli, Individual member

Vice Chair: Dr. Suvra Sekhar Das, IIT Kharagpur, India

Invited Talks: (1) Prof. V Prithviraj, Former Principal, Pondicherry College of Engineering;

(2) Dr. Pratap Kumar Panigrahi, RetdSr DDG DoT, Govt. of India

End of the 28th GSSM