

International Symposium on 5G & Beyond for Rural Upliftment

Jointly with BIT Sindri, IIT(ISM) Dhanbad, the IEEE 5G summit and 35th GISFI Standardization Series Meeting (GSSM)

February 8-9, 2020

Theme: 5G and Beyond for Rural Upliftment

The International Symposium on **5G and Beyond for Rural Upliftment** with 35th GSSM meeting will provide the platform for exploring and exchanging the ideas among the networked people. It imposes how the combination of 5G, artificial intelligence, smart platforms and the Internet of Things can allow for embedding artificial intelligence into 5G communication systems for the smarter use of network-generated data, the automated enabling of network operators and service providers to adapt to changes in traffic patterns, security risks and user behavior and thus paving the way towards safe and reliable next-generation wireless ecosystems that go beyond the urban area to



Venue

BIT, Sindri, and Indian Institute of Technology (ISM), Dhanbad, Jharkhand (INDIA)

Organizing chair:

Dharmendra K. Singh, Director, BIT, Sindri

Co-Organizing chair:

Kishore Kumar Thakur, Chairman IETE (Ranchi) & CGM, BSNL, Jharkhand

Chief Patron:

Ramjee Prasad, Chair GISFI & President CTIF Global Capsule, Aarhus University, Denmark.

Patron:

Rajiv Shekhar, Director, IIT(ISM), Dhanbad

Organizing Secretaries

Jitendra Kumar, HOD ECE, IIT(ISM) Dhanbad

Imteyaz Ahmad, HOD, ECE, BIT Sindri

Coordinators

Jaisingh Thangaraj, IIT(ISM) Dhanbad

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Advanced Program

Day 1: Saturday, February 8, 2020

Venue: IIT Dhanbad

09:30-10:00	Registration
10:00-10:10	Indian Auspicious Rituals
10:10-10:20	Welcome Message: Dharmendra Singh, Director, BIT, Sindri
10:20-10:35	Opening Message: Ramjee Prasad, Chair GISFI and President CTIF Global Capsule, Department of Business Development and Technology, Aarhus University, Herning, Denmark
10:35-11:00	Speech by Chief Guest: Shailesh Singh, Principal Secretary- Higher Education, Technical Education and Skill Development, Government of Jharkhand, Ranchi, India (TBC)
11:00-11:25	Speech by Guest of Honor: Freddy Svane, Ambassador of Denmark, Delhi, India (TBC)
11:25-11:50	Speech by Inaugural Guest: Rajiv Shekhar, Director, IIT Dhanbad
11:50-12:15	Speech by Special Guest: Nigel Jefferies, Chairman Wireless World Research forum(WWRF,UK)
12:15-12:20	Book opening: Cyber Security: The life line of ICT, Ramjee Prasad and Vandana Rohokale
12:20-12:30	Vote of Thanks: Kishore Kumar Thakur, Chairman IETE (Ranchi) & CGM, BSNL, Jharkhand
12:30-13:10	LUNCH

Keynote Speech Session1: Role of Globalization for Rural development	
Chair: Neil Pundit, BITSA International, USA	
13:10-15:10	Speaker 1: Vinod Kumar, France
	Speaker 2: Peter Lindgren, CTIF Global Capsule, Aarhus University, Herning, Denmark Title: The Multi Business Model Innovation Brain
	Speaker 3 : Knud Erik Skouby, Aalborg University, Copenhagen, Denmark
	Speaker 4: Pratap Kumar Panigrahi, DoT, Government of India (Rtd.) , India
	Speaker 5: Brahma Nand Mishra, DTU, Delhi (Rtd.), India Title: Teachers as Vehicles of Productivity in Education
	Speaker 6: Shankar Lal Masakara, IIT Kharagpur (Rtd.) , India
15:10-15:30	Tea/Coffee break
Keynote Speech Session 2: Collaboration between Industry and Academia I	
Chair : Bal Trivedi, BITSA International, USA	
15:30-17:30	Speaker 1: Vishwnath Sinha, Malaviya National Institute of Technology Jaipur, India Title: Industry-Academia Interaction – Author’s Indian Perspective
	Speaker 2: Suvra Shekar Das, IIT Kharagpur, India
	Speaker 3: Iti Saha Misra, Jadhavpur University, India
	Speaker 4: Ashok Chandra, DoT, Govt. of India (Rtd.), India Title: Role of World Radio Conferences in Radio Spectrum Management
	Speaker 5: Navin Kumar, Amrita School of Engineering, Bengaluru, India
	Speaker 6: N.K. Shrivastava, TEC, Govt. of India (Rtd.), India Title: Education 4.0
Keynote Speech Session 3: Collaboration between Industry and Academia II	
Chair : Shree Sharma, Capital Funding, USA	
17:30-19:30	Speaker1: Tilak raj Dua, GISFI India Title: Digital India: How to make India a truly connected nation
	Speaker2: Umesh Sah, DoIT, Government of Jharkhand, India Title: Use of Digitization in Rural India
	Speaker3: Chandrika Prasad, PNCS Rail & Metro Consultancy, New Delhi, India & Sudhanshu Shekhar Jamuar, IIIT Delhi, India Title: Optimising Indian Railways Infrastructure by AI
	Speaker 4: Krishna Sirohi, President, i2TB, GISFI, India
	Speaker 5: Kishore Kumar Thakur, Chairman IETE (Ranchi) & CGM, BSNL, Jharkhand Title: WiFi for Affordable Broadband & 5G in Rural Areas
	Speaker 6: Sandip Inamdar, Vishwaniketan, Navi Mumbai, India
19:30-20:30	Cultural Program
20:30-22:30	Gala Dinner
22:30	End of Day 1



Day 2: Sunday, February 9, 2020

Venue: BIT Sindri

08:30:09:00	Registration		
<p align="center">Invited Special Session; Wireless World Research Forum</p> <p align="center">Chair: Nigel Jefferies, Chairman Wireless World Research Forum (WWRF) UK</p>			
09:00- 11.00	Speaker 1: Seshadri Mohan, University of Arkansas at Little Rock, USA		
	Speaker 2: Sachin Sharma, Co-founder and CTO IntelliNexus LLC, Arkansas, USA		
	Speaker 3: Ravi Puvvala, CEO Savari, Silicon Valley, USA		
	Speaker 4: Purnima Lala, IILM College of Engineering & Technology, India		
11:00-11.20	Tea/Coffee break		
11:20-13:20	Speaker 5: Subodh Gujare, Lead Architect at the Cisco R&D center, Bengaluru		
	Speaker 6: Subhas Mandal, Chief Architect of 5G and a Fellow at Wipro Limited		
	Speaker 7: Anand Srivastava, IIIT Delhi (TBC)		
	Speaker 8: Bhavani Shankar, Research Scientist, The University of Luxemborg (TBC)		
13:20-14:00	LUNCH		
14:00-16:00	Technical Session: I	Technical Session: II	Technical Session: III
	Session Chair: Prabhat Kumar, BITSA USA	Session Chair: Anil Singh, BITSA USA	Session Chair: Jitendra Kumar, IIT(ISM) Dhanabad
	Title: Frame Selection from Test Speech for Robust Speaker Identification Authors: Swati Prasad Institute: BIT Mesra, India	Title: Monitoring air pollution Based on Internet of Things (IoT) and Interfacing of Microcontroller with VGA display Authors: Shahir Uddin et. al Institute: BIT Patna, India	Title: IoT Based Maintenance for Mine Hydraulic Excavators Authors: Prakash Kumar Institute: BIT Sindri, India
	Title: CARE YOURSELF: A Self Health Care Assistant for Elderly using Visible Light Communication Authors: A.Kavitha et. al Institute: Dr Shakunthala Engg College, Chennai	Title: Radio Frequency EMF Exposure in Living Area in Urban Environmental Conditions Authors: Hitesh Singh et. al Institute: Noida Inst. Of Engg and Tech, Greater Noida, India	Title: Industrial Internet of Things (IIoT) Authors: Narendra Kumar Srivastava et. al Institute: Shri Ramswaroop Memorial Group of Professional Colleges, Lucknow, India
	Title: Sum Rate Performance for Full-Duplex User in Co-operative NOMA systems over Weibull Fading Channel Authors: Rampravesh Kumar et. al Institute: BIT Mesra, India	Title: Posteriori Minimization for Pre-Error Inclusion Linearizer of 5G-HPA Authors: J N Swaminathan et. al Institute: Dr Shakunthala Engg College, Chennai, India	Title: Analysis of NOMA: In Capacity Domain Authors: Saurabh Srivastava et. al Institute: BIT Mesra, India
	Title: EEHRP: Energy Efficient Hybrid Routing Protocol for Wireless Sensor Network Authors: Nandkumar Kulkarni et. al Institute: SIT Pune India	Title: Data Privacy Technology for Society Authors: Aaloka Anant et. al Institute: CGC AU Herning, Denmark	Title: Role of Digital Technology in Weather and Everyday Mobility Authors: Ishita Sharma et. al Institute: CGC AU Herning, Denmark
	Title: Cryptography on digital implementation with steganography techniques Authors: Harsh Sahay Institute: DAV Inst. Of Engg & Tech, Daltonganj, India	Title: CoAP based Energy-aware Cluster-based Mobility management protocol in WBAN health care Environment Authors: Mrinai. M. Dhanvijay et. al Institute: Pune University, India	Title: Where India stands with Advancing Technology Authors: Nidhi Institute: PhD, AU Herning, Denmark
	Title: Mobile Charging for Off-grid Areas Authors: Risha Mal et. al	Title: Improved RSA Algorithm based on cloud database using Proth	Title: Child Temperature Monitoring System Authors: Saurabh Prasad et. al



	Institute: NIT Silchar, Assam, India	Number and Mersenne Prime Number Authors: Aditya Kumar Institute:	Institute: CGC AU Herning, Denmark
	Title: Online calculator based on the client server socket programming Authors: Harsh Sahay et. al Institute: DAV Inst. Of Engg & Tech, Daltonganj, India	Title: Measurement and analysis of nearness among different images using varied probe functions Authors: Priyanka Srivastava Institute:	Title: Research and Analysis on Floor Exposure Due To Electromagnetic Radiation from Mobile Towers in Residential Areas of Kolhapur Authors: A.L. Renke et. al Institute: KIT's College of of Engg Kolhapur, India
	Title: A Hybrid Wide-slot Antenna with Elliptical and Staircase-shaped Wide-slots for Wideband Applications Authors: Munish Kumar et. al Institute: GGS Indraprastha University, New Delhi, India	Title: Design of Dual-Band and Low-Profile SIW Cavity-Backed Slot Antenna for 5G Applications Authors: Amit Kumar et. al Institute: IIT (BHU), Varanasi, India	Title: Analysis of Coherent Microwave Photonic Filter for Digital Modulation Scheme Authors: Tanooja Mishra et. al Institute: IIT (ISM) Dhanbad, India
16:00-16:20	Tea/Coffee break		
	Technical Session: IV	Technical Session: V	Technical Session: VI
	Session Chair: Imeteyaz Ahmad, BIT Sindri	Session Chair: Arvind Kumar, BIT Sindri	Session Chair: Jaisingh Thangaraj, IIT(ISM) Dhanabad
	Title: Fractional Fourier Transform based OFDM for 5G Authors: Abhijeet Kumar Singh et. al Institute: IIT Patna, India	Title: Improved End to End Delay Bound analysis in Software Defined Mobile Edge Vehicular Networks Authors: Banoth Ravi et. al Institute: IIT (ISM) Dhanbad, India	Title: Authors: Marleen Steinhof et. al Institute:
	Title: Possibilities of 5G and its application in rural India: A short survey Authors: Navaneet Kumar Singh et. al Institute:	Title: QCA Adder-Subtractor Authors: Amar Prakash Sinha et. al Institute: BIT Sindri, India	Title: Smart attendance monitoring system with Computer vision using IOT Authors: Ashwin Raj et. al Institute: BIT Sindri, India
	Title: Investigations of Differential Group Delay Behavior in 3-Core Homogeneous Strongly Coupled Multicore Optical Fiber Authors: Umar Farooque et.al Institute: NIT Patna, India	Title: Hybrid Mode Analysis of Hybrid Dielectric Loaded Plasmonic Waveguide Authors: Pintu Kumar et. al Institute: NIT Patna, India	Title: A Method of Fault Tolerance and Mitigation in Wireless Sensor Networks Authors: Arun Kr Marandi et. al Institute: ARKA Jain University, Jamshedpur, India
16:20-18:20	Title: Classification between interictal and ictal states of epileptical patients using alpha subband Authors: Mustafa Sameer et.al Institute: NIT Patna, India	Title: Investigations on CRLH-TL based Multiband Conformal Antennas for Curved Surfaces Authors: Mohammad Ameen et. al Institute: BIT Sindri, India	Title: Investigation of Wideband Antenna for Medical Implant in Medical Device Radio communications Service Band Authors: Pinku Ranjan et. al Institute: BIT Sindri, India
	Title: Radio Frequency Identification (RFID) an automatic identification system Authors: Harsh Sahay Institute: DAV Inst. Of Engg & Tech Daltonganj, India	Title: Canonical Huffman Coding based Image Compression using Wavelet Authors: Rajiv Ranjan Institute: BIT Sindri, India	Title: Smart Irrigation System with Alert Authors: Abhijeet Kumar et. al Institute: BIT Sindri, India
	Title: Area Coverage Optimization in WSN using Modified PSO Authors: Amulya Anurag et.al Institute: NIT Patna, India	Title: Analysis of Optical Parameters of Hexagonal Solid Core PCF with Methanol filled inner Cladding ring Authors: Shahir Uddin et. al Institute: BIT Patna, India	Title: A comparative Analysis for Realization of Limit-cycle free 2D Digital Filters with external disturbance Authors: Kritika Awasthi et. al Institute: BIT Sindri, India



	<p>Title: Electrical Impedance Analysis On Orange During Storage And Ripening</p> <p>Authors: Pritika Singh</p> <p>Institute:</p>	<p>Title: Performance evaluation of existing Interference mitigation techniques under designed Interference Environment</p> <p>Authors: Shilpa.V.Shinde et.al</p> <p>Institute: ViMEET Khalapur, India</p>	
18:20- 19:00	Valedictory Session		
	Rajiv Shekhar, Director, IIT Dhanbad ,		
	Dharmendra Singh, Director, BIT, Sindri		
	Ramjee Prasad, Chair GISFI and President CTIF Global Capsule,		
19:00	End of Day 2 and Program		

