

Joint Conference on
“DEMOCRATIZING COMMUNICATIONS..”

December 13-16, 2015
Hyderabad
India

WPMC 2015

 **GWS -2015**

PROGRAM

Wireless Personal Multimedia Communications -2015

THE 18TH INTERNATIONAL SYMPOSIUM ON WIRELESS PERSONAL MULTIMEDIA COMMUNICATIONS (WPMC);

Global Wireless Summit-2015

THE 5TH INTERNATIONAL CONFERENCE ON WIRELESS COMMUNICATIONS, VEHICULAR TECHNOLOGY, INFORMATION THEORY, AEROSPACE & ELECTRONIC SYSTEMS (WVITAE)

THE THIRD INTERNATIONAL CONFERENCE ON COMMUNICATIONS, CONNECTIVITY, CONVERGENCE, CONTENT & COOPERATION (IC5)



Welcome Message

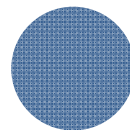
As the name suggests, Hyderabad means "lion city", derived from the Persian words and is located in the newly formed State of Telangana. Hyderabad's role in the pearl trade has given it the name "City of Pearls" and is one of the major global trading centre for large diamonds. Hyderabad is also a global centre of information technology, and is therefore, popularly known as Cyberabad (HITEC- Cyber City).

All Participants for WPMC 2015 and GWS 2015 are most welcome in Hyderabad.

Ratnam Varada Rajakumar,

General Chair, GWS 2015

Director, Indian Institute of Technology, Bhubaneswar





Welcome Message

On behalf of the Steering Committee of the WPMC 2015, Global Wireless Summit (GWS) 2015, and Wireless VITAE 2015, it is my great pleasure to bid you a warm welcome to these highly renowned events in the beautiful historic city of Hyderabad, India.

Under the theme of 'Democratizing Communications,' the 18th International Symposium on Wireless Personal Communications (WPMC) and 3rd Global Wireless Summit (GWS) are jointly organized, encompassing the 5th International Conference on Wireless Communication, Vehicular Technology, Information Theory and Aerospace & Electronics Systems (WirelessVITAE), The 12th World Wide Security and Mobility Conference (WWSMC), and the 3rd International Conference on Communications, Convergence, Content and Cooperation (IC5).

Wireless communications have evolved over the years to open great potential for monetizing on multimedia data and diversified user-generated content, making them a ubiquitous means of connecting people and businesses. Democratization of hardware, software and connectivity is the necessary enabler to benefit all stakeholders and provide a stable platform for creating profits out of technology disruption.

The setting of WPMC 2015 jointly with GWS2015 is in the heart of the City of Pearls, as Hyderabad historically been known for its blooming pearl industry. Today, Hyderabad is also a major center for the technology industry. The WPMC and GWS2015 program features an unusually distinguished group of keynote and invited speakers, as well as a strong technical program with novel research contributions from the relevant thematic areas from all over the world. In addition, an extensive list of social events have been scheduled to allow for a break from the exciting technical sessions. Please, take the advantage of the many opportunities to network and expand your technical and cultural horizons.

I would like to extend my appreciation to my global colleagues for their dedication and effort to put together a strong event.

Ramjee Prasad,

Steering Board Chair/Co-Chair of WPMC; GWS; and Wireless VITAE; Founder Chair, GISFI
Founder Director, Center for TeleInfrastruktur (CTIF), Aalborg University, Denmark
Founder Chairman, Global ICT Standardisation Forum for India (GISFI)



Welcome Message

It is my great pleasure to host the 18th International Symposium on Wireless Personal Multimedia Communications (WPMC'15) in Hyderabad, India.

The WPMC symposia series first commenced in 1998, as a unique international conference dedicated to wireless multimedia communications aiming for global collaboration. In cooperation with YRP, we hold the symposium in a location in Asia, Europe, America or Australia each year.

This year's host country, India, has shown remarkable developments in the information and communications technology (ICT) field, in particular, in mobile phones, since the 10th WPMC Symposium held in Jaipur in 2007. During that time attention to wireless technology has also increased and a broad range of R&D activities have been advanced. Against such a backdrop, it is truly gratifying that the WPMC Symposium is being held here.

As Japan's sole national research institute in the field of ICT, the National Institute of Information and Communications Technology (NICT), promotes research and development in fundamental technologies in the fields of networks, including wireless communication, universal communication, advanced ICT, and electromagnetic sensing. Through these technologies, we aim to contribute to improving and resolving various challenges that society faces.

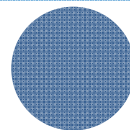
In particular, NICT positions big data of a public nature that helps to contribute to society as "Social Big Data." We focus on R&D of such Social Big Data, with the goal of having it used throughout society as social infrastructure, and ensuring that the knowledge and information gained from it is further disseminated. Additionally, efforts leading to the Internet of Things (IoT) and Internet of Everything (IoE), where all things and all data become connected, are advancing, and NICT is actively contributing to the IoT Acceleration Consortium, which represents Japan's efforts in this area, and its technology development working group, the Smart IoT Acceleration Forum. Furthermore, learning from the response to the Great East Japan Earthquake that devastated Japan in March 2011, we are also engaging in research and development to swiftly deploy a wireless telecommunications network in the aftermath of a disaster.

For this symposium, NICT has set up a Wi-SUN workshop, 5G workshop, and Resilient Wireless Network Technologies workshop as themes related to such areas of research and development at this symposium. Currently, data gathering through networks using wireless technology is being conducted in various fields and industries across the globe. At the same time, the diversification of ICT had made wireless communications technology increasingly available to people. Given this situation, I believe that holding this ICT workshop here in India will be extremely effective and holds great significance.

Lastly, I sincerely hope that WPMC'15 will be a significant forum that promotes extensive collaborations and interchanges among those engaged in the R&D of wireless communications, towards the realization of a society where people can live with a sense of security and comfort.

Masao Sakauchi,

President, National Institute of Information and Communications Technology, Japan





Welcome Message

On behalf of YRP R&D Promotion Committee, one of the co-organizers of the 18th International Symposium on Wireless Personal Multimedia Communications (WPMC 2015), it is my great pleasure to welcome you in Hyderabad, India.

Since the first WPMC was held in our Yokosuka Research Park (YRP), Japan, in 1998, this symposium had been held in various cities in the world every year providing researchers of wireless communications with opportunities to gain new knowledge and information and also to exchange with each other. We are excited that this year the WPMC is held in India for the second time after the WPMC 2007 held in Jaipur owing to the great cooperation of Global ICT Standardization Forum in India (GISFI), Indian Institute of Technology Bhubaneswar and Kharagpur, Jawaharlal Nehru Technological University Hyderabad, and other Indian colleagues, and we truly appreciate hard work and great efforts of all people concerned.

YRP has developed as an international R&D hub for radio and telecommunications technologies since its establishment in 1997. Currently, about 58 organizations with 5,200 researchers and engineers gather in YRP, and the member of our Committee, one of the promoting bodies of YRP, has reached to around 150. We have also concluded memorandums of understanding for research exchange with research parks and ICT institutions, totaling 51 organizations in 15 countries and one region.

Now, in YRP, in addition to the R&D of the 4th generation mobile communication systems, discussions and studies on the 5th generation mobile communication systems that are to be introduced in 2020 are under way. In Broadband Wireless Forum, which was established in our Committee in 2009, discussions on practical application of wireless power transmission technologies are going on, and last year in May, we also established a new Committee to promote application of Wireless Smart Utility Network, Wi-SUN.

YRP intends to use the fruits of these activities as a foothold to lead the world's R&D in ICT and further enhance YRP's function. We also would like to further strengthen wide-ranging international collaboration encompassing Europe, America, Asia and Oceania, and other regions, and we expect WPMC to be the very important platform for international exchange.

I hope that this WPMC2015 will be fruitful and enjoyable to all participants.

Mitsutoshi Hatori,

Chairman, YRP R&D Promotion Committee, Japan



Welcome Message

At the outset, as the Executive Chairman of the Technical Program Committee (TPC) of the third Global Wireless Summit (GWS-2015), it gives me an immense pleasure to heartily welcome you to this Summit being held in the City of Hyderabad, India during December 13-16, 2015.

The Global Wireless Summit (GWS) has been conceptualized in bringing together wireless media communication/personal communication, etc. The First GWS was successfully held in Princeton (USA), in 2013, followed by the Second one in Aalborg (Denmark), in 2014. Under the theme “Democratizing Communications”, the GWS-15 brings together academia, industry and standardization bodies working on green and secure communication. The conference will explore activities, trends and future challenges towards ICT globalization including energy and security issues in existing and future wireless technologies.

Global Wireless Summit 2015 is hosting 18th International Symposium on Wireless Personal Multimedia Communications (WPMC); 5th International Conference on Wireless Communications, Vehicular Technology, Information Theory Aerospace & Electronics Systems (WirelessVITAE) 2015, IC5 and World Wide Security & Mobility Conference (WWSMC). The WPMC-15 and WirelessVITAE 2015 are the major events and both are held second time in India. The 1st International Symposium on WPMC was held in 1998, and since then it is held every year with an objective of providing a ‘global platform’ for discussions on the latest trends in the wireless multimedia communications. In the year 2007, this event was held in Jaipur (India). Wireless VITAE is the only international conference broadly addressing the wireless developments in the world by merging the communities from four different IEEE societies. The 1st Conference was held in 2009 in Aalborg (Denmark) followed by 2nd in 2011 in Chennai (India).

The Global Wireless Summit-15 will present high-level technical sessions; tutorials, and special sessions on advance topics; workshops; and panel discussions. All the submitted contributions received for technical and special sessions have been thoroughly reviewed by the TPC including other leading experts and only the best quality of papers have been accepted for presentations. It may be mentioned that each paper was reviewed by at least three experts. TPC of GWS-15 has 15 Co-chairs and over 70 members, from a wide variety of academic, industrial, and research organizations around the globe.

As has been the tradition for this Summit, it continues to feature a high-quality technical program across a wide range of research in the wireless communications and related areas.

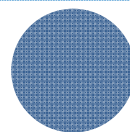
I would like to take this opportunity to profoundly thanks the TPC Co-chairs; TPC members; Chairpersons of Special Sessions, Workshops; reviewers; and authors.

I request you all to take the advantage of this grand Summit and have thought provoking 4 days in the City of Hyderabad.

Ashok Chandra

Technical Program Committee (TPC) Executive Chair, WPMC 2015 and GWS 2015

Former Wireless Adviser to the Government of India





Welcome Message

Welcome to Hyderabad, India to join WPMC2015.

On behalf of the Steering Board of WPMC, I would like to express my deep gratitude to all the delegates for coming from all over the world, and expect you will be having exciting experiences at WPMC2015 in Hyderabad.

The WPMC2015 is the 18th WPMC held for the second time in India, one of the most fantastic and attractive countries in the world.

The WPMC was inaugurated in 1998 to establish a global platform for mutual cooperation and discussions in the field of wireless multimedia communications with a strong financial supports by National Institute of Information and Communications Technology (NICT). The first WPMC was held at Yokosuka Research Park (YRP) in Japan in honor of the opening of YRP in 1997.

Since the first WPMC in YRP, seventeenth WPMCs were held through the world in Asia, Europe, North and South Americas.

With the continued and close support by numerous organizations and human relationships, the WPMC has grown into an international symposium widely recognized by industries and academic societies.

I wish to take this opportunity to thank all supporting committee members and staffs of WPMC2015, especially for General Chair, Prof. R.V Rajakumar, IIT Kharagapur, India, and TPC Chair, Dr. Ashok Chandra, Former Wireless Advisor, Government of India.

Shingo Ohmori

Co-chair of WPMC Steering Board

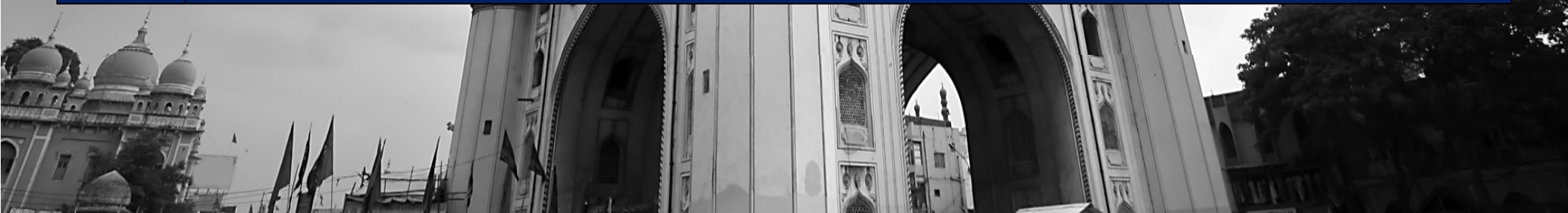
President, YRP International Alliance Institute, Japan

Vice President, YRP R&D Promotion Committee, Japan



Program
Sunday, December 13
Day 1
"Tutorials"

Time Slot	Day1: Sunday, December 13 Tutorials	
08:30- 19:00	Registration	
Morning Tutorial Session		
09:00-13:30 Coffee Break 11:00-11:30	WPMC Tutorial Session on “TV White Space for Affordable Broadband Access “ Kentaro Ishizu, <i>National Institute of Information and Communications Technology, Japan</i> ; Abhay Karandikar, <i>Indian Institute of Technology Bombay, India</i> ; Takeshi Matsumura, <i>National Institute of Information and Communications Technology, Japan</i>	MR 2.01
	WPMC Tutorial Session on “Optimal Filtering and Parameter Estimation Techniques for Statistical Models” Laxminarayana Pillutla, <i>Dhirubhai Ambani Institute of Information and Communication Technology, India</i>	MR 2.02
	WPMC Tutorial Session on “ Antennas for Millimeter-wave Wireless Communications” T Rama Rao, <i>SRM University, India</i>	MR 2.03
	WVITAE Tutorial Session on “IoT and Low Voltage Analog Design for Wireless Applications” Sudhanshu S. Jamuar, <i>University Malaysia Perlis, Malaysia</i>	MR 2.04
	WVITAE Tutorial Session on “Energy-Spectral Efficiency in Cooperative Cognitive Radio Network with Challenges in Security” Santi Prasad Maity, <i>Indian Institute of Engineering Science and Technology, Shibpur, India</i>	MR 2.05
13:30-14:30	LUNCH	
Afternoon Tutorial Session		
14:30-18:30 Coffee Break 16:30-17:00	WPMC Tutorial Session on “Road to 5G Wireless Systems: Challenges Ahead vis-à-vis Progress Made “ Amitava Mukherjee, <i>IBM Pvt. Limited, India</i> ; Debashis Saha, <i>Indian Institute of Management Calcutta, India</i>	MR 2.01
	WPMC Tutorial Session on “Wireless Channel Impairments Removal Techniques” Sanjay Kumar, <i>Birla Institute of Technology, Mesra, India</i>	MR 2.02
	WVITAE Tutorial Session on “Transmission Technologies for 5G” Suvra Sekhar Das, <i>Indian Institute of Technology, Kharagpur, India</i>	MR 2.03
	WVITAE Tutorial Session on “Visible Light Communication for Road Safety in the Intelligent Transportation Systems” Navin Kumar, <i>Amrita University & School of Engineering, India</i>	MR 2.04
	WVITAE Tutorial Session on “ICT for Health Care” Vishwanath Sinha, <i>M. N. National Institute of Technology, Jaipur, India</i>	MR 2.05
19:00-20:00	Welcome Reception in Foyer/ Pool Side Lawns	



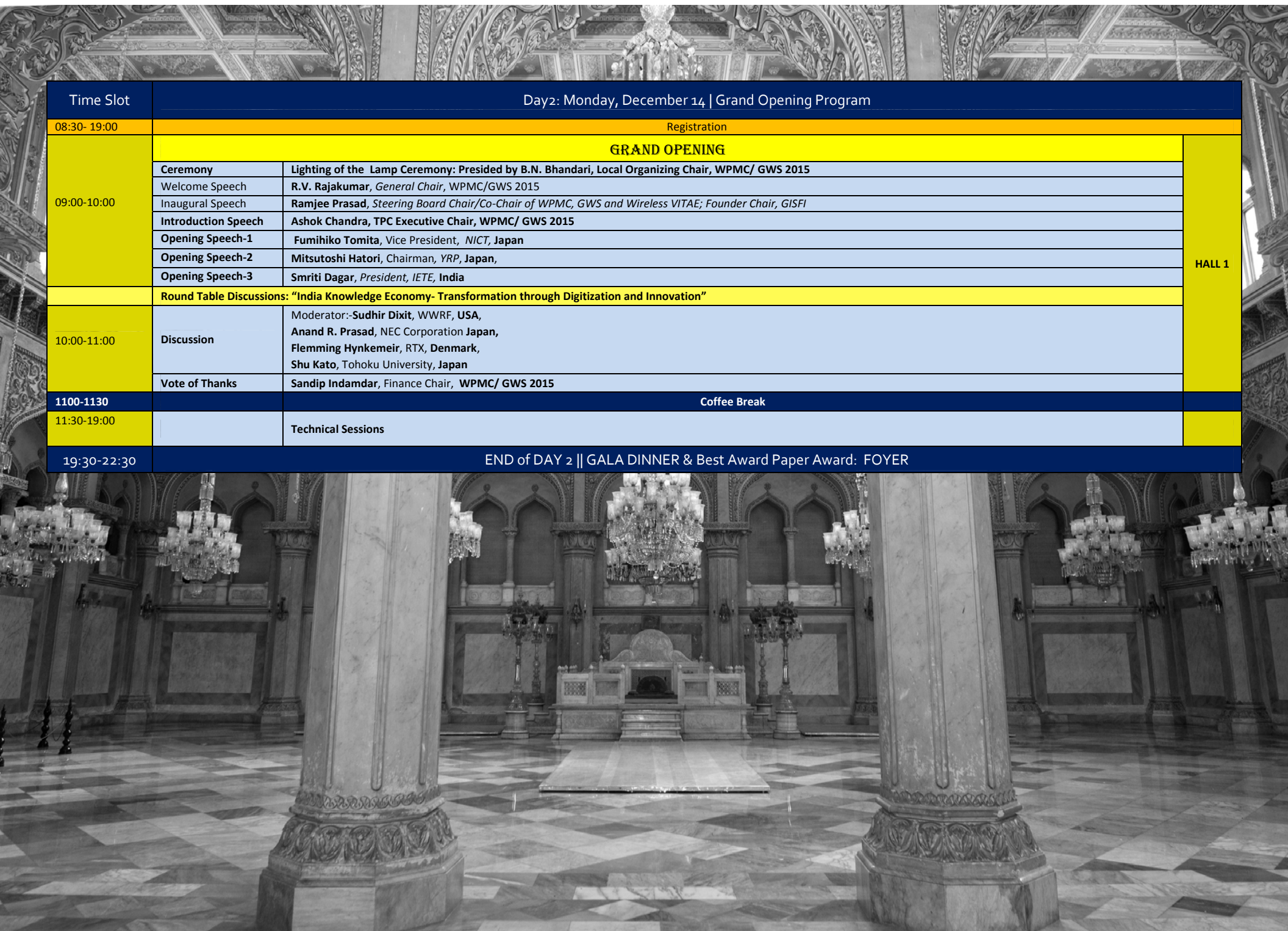


Program
Monday, December 14
Day 2

“Workshops, Special Sessions, Contributed Papers”

Time Slot	Day2: Monday, December 14 Grand Opening Program	
08:30- 19:00	Registration	
09:00-10:00	GRAND OPENING	
	Ceremony	Lighting of the Lamp Ceremony: Presided by B.N. Bhandari, Local Organizing Chair, WPMC/ GWS 2015
	Welcome Speech	R.V. Rajakumar, General Chair, WPMC/GWS 2015
	Inaugural Speech	Ramjee Prasad, Steering Board Chair/Co-Chair of WPMC, GWS and Wireless VITAE; Founder Chair, GISFI
	Introduction Speech	Ashok Chandra, TPC Executive Chair, WPMC/ GWS 2015
	Opening Speech-1	Fumihiko Tomita, Vice President, NICT, Japan
	Opening Speech-2	Mitsutoshi Hatori, Chairman, YRP, Japan,
	Opening Speech-3	Smriti Dagar, President, IETE, India
	Round Table Discussions: "India Knowledge Economy- Transformation through Digitization and Innovation"	
10:00-11:00	Discussion	Moderator:- Sudhir Dixit, WWRF, USA, Anand R. Prasad, NEC Corporation Japan, Flemming Hynkemeir, RTX, Denmark, Shu Kato, Tohoku University, Japan
	Vote of Thanks	Sandip Indamdar, Finance Chair, WPMC/ GWS 2015
1100-1130	Coffee Break	
11:30-19:00	Technical Sessions	
19:30-22:30	END of DAY 2 GALA DINNER & Best Award Paper Award: FOYER	

HALL 1



Time Slot	Day2: Monday, December 14 HALL 1.1 Activities Workshops & Special Sessions (I-A)	
08:30- 19:00	Registration	
09:00-11:00	GRAND OPENING	
11:00-11:30	COFFEE BREAK	
11:30-13:30	WPMC Special Session on “Mobile applications for Management of the Digital Business, Implications for the Infrastructures and Organisations” Session Organizer and Chair: Zoran Veljovic, University of Montenegro, Montenegro	
	Invited Talk	Manufacturing and Standardization in India, Arun Golas, former DDG, Ministry of Communications, Government of India, New Delhi, India
	Invited Talk	Role of Cyber Security for Digital Business; Tilak Raj Dua, GISFI, India
	1570231052	Dynamic Pathloss Model for Future Mobile Communication Networks; Ambuj Kumar, Albena Mihovska, Ramjee Prasad; CTIF, Aalborg University, Denmark
	1570228076	Challenges and Opportunities for Enhancing User Privacy and User Empowerment; Prashant Dhotre, Samant Khajuria , Henning Olesen; Center for Communication, Media and Information Technologies (CMI),Aalborg University Copenhagen, Denmark
1570228069	Sensitive Association Rules Hiding Methods: A Survey; Geeta Navale, Suresh Mali; Sinhgad Institute of Technology and Science, Pune, India	
13:30-14:30	LUNCH	
14:30-16:30	WPMC Workshop on “Vision and research activities toward the Fifth Generation Mobile Systems (5G)” Workshop Organizer and Chair: Kentaro Ishizu, Association of Radio Industries and Businesses (ARIB) & National Institute of Information and Communications Technology (NICT), Japan	
	Activities on 5th Generation Mobile Communications System in Japan ; Kohei Sato; Association of Radio Industries and Businesses (ARIB), Japan	
	5G Prospects in India; VikramTiwathia; The Cellular Operators Association India (COAI), India	
	5G research activities and key enabling technologies ; Haesik Kim; VTT, Finland	
	Small-cell Structured Wireless Networks for 5G: Centralized vs Decentralized Architecture ; Fumiyuki Adachi, Tohoku University, Japan	
16:30-17:00	COFFEE BREAK	
17:00-19:00	WPMC Special Session on “Combedded Systems” Session Organizer and Chair: Abhay Gandhi, Visvesaraya National Institute of Technology, Nagpur, India	
	1570227356	Artificial intelligence auto-mobility in material handling & fork-lift manufacturing; Ajinkya Vasant Nichit[®], Kedar S. Joshi[®], Sachin B. Rao[®], Sushant S. Gaidhani[®], Shrinivas Vasantrao Shinde[®],[®]Sandip Institute Of Engg. & Management, Nashik, [®]G.H. Sapat College Of Engg., Nashik, [®]Jawahar Institute Of Technology, Nashik; India
	1570227801	Interference Analysis and Mitigation Techniques in Wireless Body Area Network; Subhojit Moitra, P.H.Ghare, A.G. Kothari; VNIT, Nagpur, India
	1570227808	Implementation of Low Cost IoT Based Smart Home using Open Source Platform; Varun Tiwari, Avinash Keskar[®]; Visvesvaraya National Institute of Technology, Nagpur, India
	1570227846	Performance Comparison of DCT based Entropy Coding Techniques; Samruddhi Y. Kahu, Kishor M. Bhurchandi; Visvesvaraya National Institute of Technology, Nagpur, India
	1570227857	UWB Sensing antenna, Reconfigurable transceiver and antenna based Cognitive Radio Test bed; S. Manoj, Sumin. D. Joseph[®], Chetan. Waghmare, Nandakumar. K., Ashwin Kothari; Department of Electronics VNIT, Nagpur, India
1570227987	Methods of Frequency Offset Estimation in OFDM Based System; A. P. Rathkanthiwar[®], A.S.Gandhi[®]; [®]Priyadarshini College of Engineering Nagpur, [®]Visvesvaraya National Institute of Technology, Nagpur , India	
19:30-22:30	END of DAY 2 GALA DINNER & Best Award Paper Award: FOYER	

HALL 1

HALL 1.1

HALL 1.1

HALL 1.1

Time Slot	Day2: Monday, December 14 HALL 1.2 Activities Workshops & Special Sessions (I-B)	
08:30- 19:00	Registration	
09:00-11:00	GRAND OPENING	
11:00-11:30	COFFEE BREAK	
11:30-13:30	WVITAE Special Session on " mHealth and Medical Informatics" Session Organizer and Chair: Shyam Chakraborty, Oy Trinnect Ltd., Finland	
	Opening Talk	Shyam Chakraborty, Oy Trinnect Ltd., Finland
	Invited Talk	Role of ICT for the Advancement of Dentistry , Gianpaolo Sannino, University of Rome, Tor Vergata, Italy
	Invited Talk	Patient centered learning and Early clinical exposure of medical students to 'Diabetes and Metabolic syndrome, Yogesh Sharma[□], Ankur Joshi[□], Dept of Medicine[□], Rakesh Biswas[□]; [□]LNMCH,[□]dept of Medicine, GMC,[□]dept of Medicine, LNMCH; Bhopal Madhya Pradesh, India
Invited Talk	Review of telemedicine technologies in India, Sumit Gautam[□], Shyam Chakraborty[□]; [□]IIT Hyderabad, India;[□]Trinnect Ltd., Finland	
13:30-14:30	LUNCH	
14:30-16:30	WPMC Workshop on "Resilient Wireless Network Technologies" (I) Workshop Organizer and Chair: Ryu Miura, National Institute of Information and Communications Technology (NICT), Japan	
	1570213366	On-going Field Experiment of NerveNet in Shirahama Town for Resilient Town Network; Masugi Inoue, Yasunori Owada, Kiyoshi Hamaguchi ; <i>Resilient ICT Research Center, National Institute of Information and Communications Technology (NICT)[□], Japan</i>
	1570213263	Pilot testing and demonstration of self-management network and applications by NerveNet; Yasunori Owada, Kiyoshi Hamaguchi, Masugi Inoue ; <i>Resilient ICT Research Center, National Institute of Information and Communications Technology (NICT)[□], Japan</i>
	1570213055	Development and Field Experiment of Distributed Peer Aware Communication Networks; Lin Shan, Huan-Bang Li, Takashi Matsuda, Ryu Miura ; <i>Wireless Network Research Institute, National Institute of Information and Communications Technology (NICT)[□], Japan</i>
1570213332	A hybrid multi-hop network by small-unmanned aircraft and satellite telecommunication systems; Fumie Ono[□], Byeong-pyo Jeong[□], Yasunori Owada[□], Shan Lin[□], Ryu Miura[□] ; <i>Wireless Network Research Institute,[□]Resilient ICT Research Center, National Institute of Information and Communications Technology (NICT)[□]; Japan</i>	
16:30-17:00	COFFEE BREAK	
17:00-19:00	WPMC Workshop on "Resilient Wireless Network Technologies" (II) Workshop Organizer and Chair: Ryu Miura, National Institute of Information and Communications Technology (NICT), Japan	
	1570213462	QZSS SS-CDMA Location and Short Message Communication System; Noriharu Suematsu, Suguru Kameda, Yuji Miyake, Tomohide Takahashi, Akinori Taira, Tadashi Takagi, Kazuo Tsubouchi ; <i>Research Institute of Electrical Communication, Tohoku University, Japan</i>
	1570213016	Disaster Countermeasure Experiments using WINDS; Takashi Takahashi[□], Kazuyoshi Kawasaki[□], Akira Akaishi[□], Toshio Asai[□], Maki Akioka[□], Tomoshige Kan[□], Morio Toyoshima[□], Byongpyo Jeong[□], Hajime Susukita[□], Shuji Murakami[□] ; <i>Wireless Network Research Institute, Resilient ICT Research Center; NICT, Japan</i>
	1570195491	A Path Ordering and Reference Selection Method for the Differential Delay Tomography; Takehiro Otsuka[□], Shinsuke Hara[□], Takahiro Matsuda[□], Kenichi Takizawa[□], Fumie Ono[□], Ryu Miura[□] ; <i>Graduate School of Engineering, Osaka City University, Graduate School of Engineering, Osaka University; Japan</i>
1570205987	Experimental Evaluation on Wireless Tomography with Compressed Sensing in a Three-Dimensional Space; Kengo Yokota[□], Shinsuke Hara[□], Takahiro Matsuda[□], Masaki Mukamoto[□], Yuki Uemura[□], Kenichi Takizawa[□], Fumie Ono[□], Ryu Miura[□] ; <i>Graduate School of Engineering, Osaka City University, Sugimoto, Sumiyoshi-ku, Osaka, Graduate School of Engineering, Osaka University 2-1 Yamadaoka, Suita, Osaka, Strategic Planning Office, National Institute of Information and Communications, Koganei, Tokyo, Wireless Network Research Institute, National Institute of Information and Communications Technology, Kanagawa; Japan</i>	
19:30-22:30	END of DAY 2 GALA DINNER & Best Award Paper Award: FOYER	

HALL 1

HALL 1.2

HALL 1.2

HALL 1.2

Time Slot	Day2: Monday, December 14 MRG .01 Activities Contributed Papers: Cognitive Radio Networks and Spectrum Management (I)	
08:30- 19:00	Registration	
09:00-11:00	GRAND OPENING	
11:00-11:30	COFFEE BREAK	
11:30-13:30	Cognitive Radio Networks and Spectrum Sensing & Management (I-A) CRN, Relay and Routing : WVITAE & WPMC Session Chair: N Mangla Gouri, JNT University Hyderabad, India	
	1570213275	C2R2M: Cluster-based Cognitive Radio Routing Mechanism; Shriram Kulkarni, Shriram Markande ; <i>University of Pune, India</i>
	1570209919	Adaptive Cooperative Spectrum Sensing and Access in Cognitive Radio Networks; Kayalvizhi G ; <i>SSN College of Engineering, India</i>
	1570212756	Evaluation of Channel Assembling Strategies with Single-Class Users in Cognitive Radio Networks; Ebenezer Esenogho, Tom Walingo ; <i>University of KwaZulu-Natal, South Africa</i>
	1570188607	Evaluating the Effect of Selfishness on Flooding Based DTN Routing Algorithms; C Sobin, Vaskar Raychoudhury ; <i>IIT Roorkee, India</i>
	1570213104	WPMC: Throughput of Secondary User in Underlay Cognitive Relay Network with Energy Harvesting; Binod Prasad, Sanjay Dhar Roy, Sumit Kundu ; <i>National Institute of Technology, Durgapur, India</i>
1570207535	WPMC: Quality of Service Enforcing Centrally Optimized Routing for Delay Tolerant Networks; Abhishek Thakur, Chittaranjan Hota ; <i>BITS Pilani, Hyderabad Campus , India</i>	
13:30-14:30	LUNCH	
14:30-16:30	Cognitive Radio Networks and Spectrum Sensing & Management (I-B): WPMC Session Chair: Masahiro Umehira, Ibaraki University, Japan	
	1570193943	A Compressive Sensing-based Channel Estimation via GAMP in FBMC/OQAM System; Meng Lin, Yunzhou Li, Limin Xiao, Yan Zhang, Xibin Xu, Jing Wang ; <i>Tsinghua University, China</i>
	1570206001	New Pricing Model for Dynamic Dual-operator Spectrum Sharing in GSM; Meghan Saitwal, Yuva Kumar, Brij Mohan Baveja, Mohammed Zafar Ali Khan, Uday B Desai ; <i>Indian Institute of Technology, Hyderabad, India</i>
	1570192957	Improved p-norm Energy Detector with Soft Combining in AWGN Channel for Spectrum Sensing; Vaibhav Kumar, Deep Kandpal, Ranjan Gangopadhyay, Soumitra Debnath; L.N.Mittal <i>Institute of Information Technology, Jaipur, India</i>
	1570213925	Selective Sensing Framework for Opportunistic Mobile Phone Sensing Networks; Thejaswini M, Pachamuthu Rajalakshmi, Uday B Desai ; <i>Indian Institute of Technology, Hyderabad, India</i>
	1570193867	Investigation on Listen-Before-Talk Mechanism of Licensed-Assisted Access to Unlicensed Spectrum; Yu Jiang¹, Hiroki Harada², Liu Liu³, Huiling Jiang⁴, Satoshi Nagata^{1†} ; <i>1. DOCOMO Beijing Communications Laboratories Co., Ltd, China, 2. NTT DOCOMO, INC, Japan</i>
1570213278	CDF Based Spectrum Occupancy Rate Measurement Using Least Square Estimation of Gaussian Noise Period; Shota Rachi, Akira Saito, Masahiro Umehira, Shigeki Takeda ; <i>Ibaraki University, Japan</i>	
16:30-17:00	COFFEE BREAK	
17:00-19:00	Cognitive Radio Networks and Spectrum Sensing & Management (I-C): WPMC Session Chair: Dominique Noguét, Minatec Campus CEA Leti, France	
	1570208599	Detection Performance of Soft Data Fusion in Rician Fading Channel for Cognitive Radio Network; Srinivas Nallagonda¹, V Chandra Sekhar², Aniruddha Chandra³, Sanjay Dhar Roy⁴, Sumit Kundu⁵ ; <i>1. M V S R Engineering College , 2. Osmania University, 3. Brno University of Technology, 4. National Institute of Technology, Durgapur, WB, 5. India, 6. Czech Republic</i>
	1570213378	Evaluation of permutation entropy detection for cognitive radio networks; Srinu Sesham, Amit Kumar Mishra ; <i>University of Cape Town, Cape Town, South Africa</i>
	1570208853	Optimization of Cooperative Spectrum Sensing in Cognitive Radio over Erroneous Reporting Channel; Narasimha Rao Banavathu, Mohammed Zafar Ali Khan ; <i>Indian Institute of Technology, Hyderabad, India</i>
	1570213111	Distributed Token Based MAC for Multi-Channel Multi-Interface Cognitive Radio WMN; Mohammed A R Quadri, Ramesh Babu Battula, Manoj Singh Gaur, Dinesh Gopalani, Meenakshi Tripathi ; <i>Malaviya National Institute of Technology Jaipur, India</i>
	1570209789	Path and Load Aware Routing Algorithm for Cognitive Radio Wireless Mesh Network; Ramesh Babu Battula, Manoj Singh Gaur, Dinesh Gopalani, Emmanuel Shubhakar Pilli ; <i>Malaviya National Institute of Technology, Jaipur, India</i>
1570213374	Fractal dimension of spectral estimates for spectrum sensing under noise variance uncertainty; Srinu Sesham¹, Amit Kumar Mishra², Siba Kumar Udgata³, Samrat Sabat⁴ ; <i>1. University of Cape Town, Cape Town, South Africa, 2. University of Hyderabad, Hyderabad, India</i>	
19:30-22:30	END of DAY 2 GALA DINNER & Best Award Paper Award: FOYER	

HALL 1

MRG .01

MRG .01

MRG .01

Time Slot	Day2: Monday, December 14 MRG .02 Activities Contributed Papers: Next Generation Networks & Internet of Things (I)	
08:30- 19:00	Registration	
09:00-11:00	GRAND OPENING	
11:00-11:30	COFFEE BREAK	
11:30-13:30	Next Generation Networks (I-A) 5G and Device to Device Communications: WPMC Session Chair: Sri Ganesh Rao, Tata Consultancy Services, Bangalore, India	
	1570194953	The impact of Network Neutrality on the OTT Service of 5G WISDOM; Yapeng Wang, Ramjee Prasad ; <i>Center of TeleInfrastruktur, Aalborg University, Aalborg, Denmark</i>
	1570206855	Efficient Device-to-Device (D2D) Offloading Mechanism in LTE Networks; Bighnaraj Panigrahi, Rashmi Ramamohan, Hemant Kumar Rath, Anantha Simha ; <i>Tata Consultancy Services, India</i>
	1570208181	Survey of Device-to-Device Communications Infrastructure-less in IEEE 802.15.8 Task Group; Marco Hernandez, Ryu Miura ; <i>NICT, Japan</i>
	1570208909	Link Adaptation Strategies for Cellular Downlink with low-fixed-rate D2D Underlay; Afonso Eduardo, Ivo Sousa, António J. Rodrigues ; <i>Instituto de Telecomunicações (IT) Instituto Superior Técnico (IST), Universidade de Lisboa Lisbon, Portugal</i>
	1570210057	A Pattern Division Multiple Access Scheme for 5G wireless communication systems; Zhang Kai, Jin Xu ; <i>Beijing University of Posts and Telecommunications, China</i>
1570213212	Coexistence of Systems with Different Multicarrier Waveforms in LSA Communications; Mirza Golam Kibria, Gabriel Porto Villardi, Kentaro Ishizu, Fumihide Kojima ; <i>Wireless Network Research Institute, National Institute of Information and Communications Technology, Japan</i>	
13:30-14:30	LUNCH	
14:30-16:30	Next Generation Networks (I-B) Spectrum Issues and Intelligent Approach: WVITAE Session Chair: Murli Dhar Tiwari, Barkatullah University, Bhopal, India	
	1570213573	Spectrum Scarcity at the Extensive and Intensive Edges: From White Space to 5G; Benoît Pierre Freyens ; <i>University of Canberra, Australia</i>
	1570210051	Real Time Evaluation of Energy Detection and Covariance based Spectrum Sensing Algorithms; Sunil Devanahalli, Samrat Sabat ; <i>University of Hyderabad, India</i>
	1570213985	Self Configurable Intelligent Distributed Antenna System; Ambuj Kumar, Albena Mihovska, Ramjee Prasad ; <i>CTIF, Aalborg University, Denmark</i>
	1570209885	Distributed Forward-Backward Pursuit Algorithm for Distributed Compressive Sensing; Suchithra Sudhakaran, Neelakantan PC ; <i>Adi Shankara College of Engineering and Technology, India</i>
	1570210103	Spectrum for 5G Services; Purnendu Shekhar Mani Tripathi^{MRG}, Ramjee Prasad^{MRG} ; <i>Ministry of Communications & IT, India, Centre for TeleInfrastructure(CTIF), Aalborg University, Aalborg, Denmark</i>
1570209977	On Performance of Eigenvalue based Detectors for Spectrum Sensing under Different Fading Conditions; Ashwini Deshmukh^{MRG}, Madhukar Deshmukh^{MRG}, Flemming Bjerger Frederiksen^{MRG}, Ramjee Prasad^{MRG} ; <i>Trinity College of Engineering Research Pune, India, RATE, Department of Electronic Systems, CTIF, Aalborg University, Denmark</i>	
16:30-17:00	COFFEE BREAK	
17:00-19:00	Next Generation Networks (I- C) Future Vision and IoT: WVITAE & WPMC Session Chair: Vishwanath Sinha, M N National Institute of Technology, Jaipur, India	
	1570213430	Access for Internet of Things using Smartphone as a Gateway utilizing LTE and WiFi; Prateek Mathur^{MRG}, Rasmus Hjorth Nielsen^{MRG}, Neeli Rashmi Prasad^{MRG}, Ramjee Prasad^{MRG} ; <i>Cisco Systems, USA, Center for TeleInfrastructure (CTIF), USA, Center for TeleInfrastructure (CTIF), Aalborg University, Denmark</i>
	1570213454	Cognitive framework for flexible queuing strategy in Next Generation Networks; Hanuma Chitti^{MRG}, Neeli Rashmi Prasad^{MRG}, Knut Ovsthus^{MRG}, Ramjee Prasad^{MRG} ; <i>Center for TeleInfrastructure (CTIF), USA, Bergen University College, Norway, Center for TeleInfrastructure (CTIF), Aalborg University, Denmark</i>
	1570215979	Service Interaction through Gateways for Inter-Cloud Collaboration within the Arrowhead Framework; Pál Varga^{MRG}, Csaba Hegedus^{MRG} ; <i>Budapest University of Technology and Economics, AITIA International Inc.; Hungary</i>
	1570191635	Single Thing Sign On Identity Management for Internet of Things; Vanya Zdravkova, Mihail Mihaylov, Albena Mihovska, Ramjee Prasad ; <i>Department of Electronic Systems, Center for TeleInfrastruktur, Aalborg University, Denmark</i>
	1570191687	WPMC: Towards Internet of Services - SDN-enabled IMS Architecture for IoT Integration; Anton Katov^{MRG}, Bayu Anggorojati^{MRG}, Sofoklis Kyriazakos^{MRG}, Albena Mihovska^{MRG}, Neeli Rashmi Prasad^{MRG} ; <i>Center for TeleInfrastructure (CTIF), Aalborg University, Denmark, Center for TeleInfrastructure (CTIF), Aalborg University, USA</i>
1570195595	WPMC: Packet Scheduling Scheme to Guarantee QoS in Internet of Things; Reema Sharma^{MRG}, Navin Kumar^{MRG}, Namratha Gowda^{MRG}, Srinivas Talabattula^{MRG} ; <i>The Oxford College Of Engineering, Amrita University & School of Engineering, Visvesvaraya Technological University, Karnataka, Indian Institute of Science, Bangalore; India</i>	
19:30-22:30	END of DAY 2 GALA DINNER & Best Award Paper Award: FOYER	

Time Slot	Day2: Monday, December 14 MRG .03 Activities Contributed Papers: Vehicular & Mobile Ad-hoc Networks (I)	
08:30- 19:00	Registration	
09:00-11:00	GRAND OPENING	
11:00-11:30	COFFEE BREAK	
11:30-13:30	Vehicular & Mobile Ad-hoc Networks (I-A) Aerial and Sensor Ad-Hoc Networks: WVITAE Session Chair: Sanjay Kumar, Birla Institute of Technology, Ranchi, India	
	1570214001	Embedded Video Processing and Data Acquisition for Unmanned Aerial Vehicle; Vrunal Mhatre, Akshay Patil, Siddhesh Chavan, Ashish Chittimilla, Aaron Samuel; Fr. Conceicao Rodrigues College of Engineering, India
	1570194189	HANET: Millimeter wave based intelligent radio architecture for serving place time capacity issue; Purnima Lala Mehta¹, Troels B. Sørensen², Ramjee Prasad³ ; ¹ Center for TeleInfrastructure (CTIF), Denmark; ² Department of Electronic Systems, ³ Aalborg University, Denmark; ⁴ HMRITM, New Delhi, India
	1570195421	GSHMAC: Green and Secure Hybrid Medium Access Control for Wireless Sensor Network; Pranav Pawar¹, Rasmus Hjorth Nielsen², Neeli Rashmi Prasad³, Ramjee Prasad⁴ ; Cisco Systems , USA; ⁵ Center for TeleInfrastructure (CTIF), USA; ⁶ Center for TeleInfrastruktur, Aalborg University, Aalborg, Denmark
	1570214751	Automatic Household Power Measurement & Control System based on Wireless Sensor Networks; Jameel Ahamed; Aligarh Muslim University, Aligarh, India
	1570213872	Conducted EMI Analysis of Vehicle Positioning System and Strategies to Reduce Conducted EMI; Shreenivas Ramesh Jog, Nidhi Chaturvedi; D. Y. Patil Institute of Engineering & Tech., India
1570213870	Study of Radiated Emission from Wireless Positioning System and the strategies to minimize it; Shreenivas Ramesh Jog, Suvidha Chitnis; D. Y. Patil Institute of Engineering & Tech., India	
13:30-14:30	LUNCH	
14:30-16:30	Vehicular & Mobile Ad-hoc Networks (I-B) Wireless Sensor Networks: WPMC Session Chair: Asha Rani, JNT University Hyderabad, India	
	1570210123	An Interdependent Source-Channel Coding for Energy Efficient Communication in WSNs; Resmi N c, Sonali Chouhan; Indian Institute of Technology Guwahati, India
	1570194199	Impact of Network Coding on Distributed Indoor Target Tracking using Wireless Sensor Networks; Laxminarayana Pillutla, Shourya Gupta, Dushyant Singh; Dhirubhai Ambani Institute of Information and Communication Technology (DA-IICT), India
	1570195119	Mobility-aware Hybrid Synchronization for Wireless Sensor Network; Dnyaneshwar Mantri, Neeli Rashmi Prasad, Ramjee Prasad; Center for TeleInfrastructure (CTIF), Aalborg, Denmark
	1570195013	Characterization for Reporting Rate of Adaptive Sectoring Scheme to Improve Reliability in WSN; Manohar S. Chaudhari¹, Vivek Shankar Deshpande², Ramjee Prasad³ ; ¹ Sinhgad Institute of Technology, Pune University, India; ² University of Poona & MIT College of Engineering, India; ³ Center for TeleInfrastructure (CTIF), Aalborg University, Denmark
	1570195063	Q-MOHR:QoS Assured Multi-Objective Hybrid Routing Algorithm for Heterogeneous WSN; Nandkumar Kulkarni¹, Neeli Rashmi Prasad², Ramjee Prasad³ ; ¹ Center for TeleInfrastructure (CTIF), Denmark; ² Center for TeleInfrastructure (CTIF), Aalborg University, USA
1570213289	Performance Analysis of Total Power Consumption in Linear Multi-hop Networks; Satoshi Yamazaki¹, Kouji Ohuchi² ; ¹ Numazu National College of Technology & Department of Control & Computer Engineering, Numazu, Shizuoka, ² Shizuoka University Johoku, Hamamatsu, Shizuoka; Japan	
16:30-17:00	COFFEE BREAK	
17:00-19:00	Vehicular & Mobile Ad-hoc Networks (I-C) Vehicular and Mobile Ad-Hoc Networks: WPMC Session Chair: Vladimir Poulkov, Technical University of Sofia, Bulgaria	
	1570188641	Transmission Capacity Analysis for Linear Vehicular Ad Hoc Networks; Xinxin He, Weisen Shi, Tao Luo; Beijing University of Posts and Telecommunications, China
	1570199753	Trust based Detection and Elimination of Packet Drop Attack in the Mobile Ad-hoc Networks; Vishvas Kshirsagar¹, Ashok Kanthe², Dina Simunic³ ; ¹ Sinhgad Institute of Technology, Lonavala, India, ² Savitribai Phule Pune University, India, ³ Faculty of Electrical Engineering and Computing (FER), University of Zagreb, Croatia
	1570199757	The Behavioral Based Gray Hole Attack Detection in Mobile Ad-hoc Network (MANET); Parineet Shukla¹, Ashok Kanthe², Dina Simunic³ ; ¹ Sinhgad Institute of Technology, Lonavala, India, ² Savitribai Phule Pune University, India, ³ Faculty of Electrical Engineering and Computing (FER), University of Zagreb, Croatia
	1570194567	On Supporting Integrated Multimedia Traffic in TDMA based Mobile Ad hoc Networks; Malleshm Dasari¹, Himanshu Sindhwala², Naresh Vattikuti³, Bheemarjuna Reddy Tamma⁴ ; ¹ Uurmi Systems Pvt. Ltd. Hyderabad, ² IIT Hyderabad, Hyderabad; India
	1570194813	Intrusion Detection System Against Colluding Misbehaviour in MANETs; Pragya Mishra, Karm V Arya, Hardev singh Pal; ABV-Indian Institute of Information Technology & Management, Gwalior, India
1570195073	Two-Party Key Agreement Protocol for MANETs based on Verifiable Secret Sharing Scheme; Cheruku Asha Jyothi, Narsimha Gugulotu; Jawaharlal Nehru Technological University College of Engineering, Jagtial, Karimnagar, Telangana, India	
19:30-22:30	END of DAY 2 GALA DINNER & Best Award Paper Award: FOYER	

HALL 1

MRG .03

MRG .03

MRG .03

Time Slot	Day2: Monday, December 14 MRG .04 Activities Contributed Papers: Technology Applications (I)		
08:30-19:00	Registration		
09:00-11:00	GRAND OPENING		HALL 1
11:00-11:30	COFFEE BREAK		
11:30-13:30	Technology Applications (I-A) Human Applications : WVITAE & WPMC Session Chair: Octavian Fratu, University POLITEHNICA of Bucharest, Romania		MRG .04
	1570213423	Behavior State Feature Extraction through Single Channel EEG Device for Medical Application; Sravanth Kumar Ramakuri, Vivek Kumar, Bharat Gupta; Birla Institute of Technology Mesra, Ranchi, India	
	1570206439	Real-time Detection of EEG Electrode Displacement for Brain-Computer Interface Applications; Giulia Cisotto, Silvano Pupolin; University of Padua, Italy	
	1570213165	Remote Heart Rate Evaluation by Variational Mode Decomposition; Bogdan Gavriloiu [®] , Octavian Fratu [®] , Simona Halunga [®] , Gheorghe Gavriloiu [®] , Constantin Mara [®] , Radu Vizireanu [®] ; [®] University Politehnica of Bucharest, [®] University of Pitesti; Romania	
	1570210205	Speech Feature Analysis and Selection for Emotion Classification; Angel Manolov, Ognian Boumbarov, Agata Manolova, Vladimir K. Poulkov, Krasimir Tonchev; Technical University of Sofia, Bulgaria	
	1570213386	Public Auditing and Data Dynamics in Cloud with Performance Assessment on Third Party Auditor; Snehal Sawant [®] , Aaradhana Arvind Deshmukh [®] , Albena Mihovska [®] , Ramjee Prasad [®] ; [®] CTIF, Aalborg University, Denmark, [®] Smt.Kashibai Navle College of Engineering, Vadgoan BK, Pune, India	
1570195309	WPMC: Non Audio-Video gesture recognition system; Razvan Craciunescu [®] , Cristian Ionut Dita [®] , Albena Mihovska [®] , Octavian Fratu [®] , Sofoklis Kyriazakos [®] , Ramjee Prasad [®] ; [®] CTIF, Aalborg University, Denmark, [®] University Politehnica of Bucharest, Romania		
13:30-14:30	LUNCH		
14:30-16:30	Technology Applications (I-B) Human Applications : WPMC Session Chair: fred Harris, San Diego State University, USA		MRG .04
	1570207155	Fuzzy Logic based Human Detection in Video; Manojkumar M Gawali, Dipti R. Pawar; Sinhgad College of Engineering, Pune, India	
	1570207563	Improving Segmentation Accuracy for Motion Detection using Bidirectional Video Processing; Abhishek Thakur, Ankesh Kumar; BITS Pilani, Hyderabad Campus, India	
	1570194919	Automatic Speaker Detection and Recognition in a multi classroom E-Learning System; Amitha Vijayan, Balaji Hariharan; AMRITA Vishwa Vidyapeetham Amritapuri, Kollam, India	
	1570213262	Real-time EEG Monitoring and Transmission over Low Bandwidth Wireless Networks; Kaushik Lahiri [®] , Amitava Mukherjee [®] , Mrinal Kanti Naskar [®] ; [®] IBM India Pvt Ltd; [®] Jadavpur University; India	
	1570194425	Adaptive priority based network bandwidth throttling for a Virtual Classroom System; Jobina Varghese, Balaji Hariharan; AMRITA Vishwa Vidyapeetham Amritapuri, Kollam, India	
1570213445	Minimal Error IEEE 802.15.4 Communication Module for Heart Monitoring Data Transmission in IoT; Subrahmanyam Vuddagiri, Mohammed Abdullah Zubair, Ajay Yadav, Pachamuthu Rajalakshmi; Indian Institute of Technology Hyderabad, India		
16:30-17:00	COFFEE BREAK		
17:00-19:00	Technology Applications (I-C) Multiple Areas: WVITAE Session Chair: Hiroshi Harada, Kyoto University, Kyoto, ICT, Koganei, Japan		MRG .04
	1570207041	Design of Amateur Radio Wireless Transceiver to Reduce the Impact of Natural Calamities; Ashwini Shingate [®] , Rushikesh Borse [®] , Shubham Tiwari [®] , Arvind Jawale [®] ; [®] Savitribai Phule Pune University, [®] Savitribai Phule Pune University, [®] Shubhra Energy, [®] Scout Satara; India	
	1570210199	Deep Sea Exploration Recovery and Transport [DESERT] Vehicle and its Modes of Communication; Aileen Sengupta [®] , Pavel Sengupta [®] ; [®] Techno India College of Technology, Rajarhat, [®] Dr. Sudhir Chandra Sur Degree Engineering College, Dum Dum, Kolkata [®] ; India	
	1570208685	Energy Efficient Lighting System for Indoor Parking with Ubiquitous Communication; Mahesh Jha [®] , Navin Kumar [®] ; [®] CMRIT, VTU, [®] Amrita University & School of Engineering; India	
	1570210063	Recent Progress in Radioclimatological Modeling in Equatorial and Tropical Africa; Thomas Afullo, Akintunde Alonge; University of Kwazulu-Natal, Durban, South Africa	
	1570210261	Digital door lock using fingerprint, webcam and GSM - a novel approach for smart homes; Ashish Patwari, Karuna Yepuganti, Arpit Omar, Shekhar Thakur, Kaushik Kumar; VIT University, Vellore, India	
1570209921	Marine Vessel Detection Comparing GPRS and Satellite Images for Security Applications; Sajan Ambadiyil [®] , Dintu Thomas [®] , V P Mahadevan Pillai [®] ; [®] Optical Image Processing Division, C-DIT, [®] SCMS School of Engineering and Technology, [®] University of Kerala, Thiruvanthapuram, Kerala; India		
19:30-22:30	END of DAY 2 GALA DINNER & Best Award Paper Award: FOYER		

Time Slot	Day2: Monday, December 14 MRG .05 Activities Special Sessions on WWRF & GISFI and; Contributed Papers: Physical and Fundamentals (I)	
08:30- 19:00	Registration	
09:00-11:00	GRAND OPENING	
11:00-11:30	COFFEE BREAK	
11:30-13:30	WPMC Special Session on "Selected Topics" Session Organizer and Chair: Shinsuke Hara, <i>Osaka City University, Japan</i>	
	Invited Talk	"Home neuro- rehabilitation: an ICT near Future Service", Silvano Pupolin , <i>University of Padua, Italy</i>
	Invited Talk	" Lakhshmi Mukunkutla, <i>USA/Aalborg University, Denmark</i>
	Invited Talk	"Convergence Techniques for Future Communications", M. Jankiraman , <i>Larsen & Toubro Ltd. (L&T), Bangalore, India</i>
13:30-14:30	COFFEE BREAK	
14:30-16:30	Physical and Fundamentals (I-A) LTE and Multiple Access Techniques (OFDMA/OFDM/SC-FDMA, MIMO, SISO): WPMC & WVIATE Session Chair: ", M. Jankiraman, Larsen & Toubro Ltd. (L&T), Bangalore, India	
	1570196365	Joint Transceiver Design for QoS-Constrained MIMO Two-Way Non-Regenerative Relaying; Rohit Budhiraja, Bhaskar Ramamurthi ; <i>Department of Electrical Engineering, IIT Madras, India</i>
	1570190883	New virtual 8x1 MISO scheme with QOSTBC; Ugljesa Urosevic, Zoran Veljovic, Milica Pejanovic-Djurisic ; <i>University of Montenegro, Podgorica, Montenegro</i>
	1570212700	Limited Feedback Scheduling For MIMO-OFDM Broadcast Network; Prabina Pattanayak, Preetam Kumar ; <i>Indian Institute of Technology, Patna, India</i>
	1570193823	An Efficient Deterministic Scheme for Blind CFO Estimation in SC-FDMA; Vinay Kumar Trivedi, Vidya Sagar, Preetam Kumar ; <i>Indian Institute of Technology, Patna, India</i>
1570209997	WVIATE: Capacity Analysis of MIMO BC Channels in Presence of Spatial Correlation; Ashok Panda^a, Swadhin Kumar Mishra^b, Ajit Kumar panda^b,^c IIT Bhubaneswar,^a NIST Berhampur; India	
1570212704	WVIATE: Error Rate Performance for Multiuser scheduling in MIMO downlink system with imperfect CSI; Prabina Pattanayak, Diwakar Pandey, Preetam Kumar; Indian Institute of Technology, Patna, India	
16:30-17:00	COFFEE BREAK	
17:00-19:00	WVIATE Special Session: Wireless World Research Forum (WWRF): Knud Erik Skouby, Aalborg University , Denmark and Sudhir Dixit, WWRF, USA	
	Theme : Mobile History of India	
	Opening Speech	Knud Erik Skouby, Aalborg University , Denmark
	Keynote Speech	Sudhir Dixit, WWRF, USA
	Invited Talk	Krishna Sirohi, NIKSUN, India
19:30-22:30	END of DAY 2 GALA DINNER & Best Award Paper Award: FOYER	

HALL 1

MRG .05

MRG .05

MRG .05

Time Slot	Day2: Monday, December 14 MRG .06 Activities Second International Workshop on Innovation and Entrepreneurship(IWIE) (I)		
08:30- 19:00	Registration		
09:00-11:00	GRAND OPENING		HALL 1
11:00-11:30	COFFEE BREAK		
11:30-13:30	Second International Workshop on Innovation and Entrepreneurship(IWIE) :(I-A) Entrepreneurship Contest		
	Second International Workshop on Innovation and Entrepreneurship(IWIE) (I –A) Organizer and Chair: Sofoklis Kyriazakos, CTIF, Aalborg University, Denmark		
	Introduction to the Workshop and Entrepreneurship Contest		
	Mayank Kumar Mittal, SaleYourBooks.com Mayank Semwal , Genralsorts Shilpa Chaudhary, Car security Systems Meenakshi Gupta, MNY PRO Jafar Mapara, Identity Management System Akskay Radke, Smart Indian railways	Mayank Semwal, App for professional Help Deepak Sharma, Instant Presentation and Converter Mukesh Wadile, SecureChip Heramb Pawar, Clear Vision Naman Vashishth, Find ME!!!! Darshan Vyas, CLOTH TESTER using IMAGE PROCESSING Shashank Roy, Electronic Refigerator	Adarsh Mishra, Virtual PPM-1 Utkarsh Trivedi, Service Providers Support Irram Patharwat, Methane Extraction Digester Manoj Radadiya, Gesture and Voice based Television Control System Nikhil Prabhu, Smart Electric Car using AMR7 Jafar Mapara, Connected Homes Madhukesh Heggannavar, Design and Development of Magnetron Power Source
13:30-14:30	LUNCH		
14:30-16:30	Second International Workshop on Innovation and Entrepreneurship(IWIE) :(I-B) Entrepreneurship Contest		
	Second International Workshop on Innovation and Entrepreneurship(IWIE) (I –B) Organizer and Chair: Sofoklis Kyriazakos, CTIF, Aalborg University, Denmark		
	IWIE Activities		
16:30-17:00	COFFEE BREAK		
17:00-19:00	Second International Workshop on Innovation and Entrepreneurship(IWIE) :(I-C) Entrepreneurship Contest		
	Second International Workshop on Innovation and Entrepreneurship(IWIE) (I –C) Organizer and Chair: Sofoklis Kyriazakos, CTIF, Aalborg University, Denmark		
	Results and Discussion of Entrepreneurship Contest of the IWIE Workshop Day -1		
19:30-22:30	END of DAY 2 GALA DINNER & Best Award Paper Award: FOYER		



Program
Tuesday, December 15

Day 3

“Workshops, Special Sessions, Contributed Papers”

Time Slot	Day3: Tuesday, December 15 HALL 1.1 & 1.2 Activities Workshops & Special Sessions (II-A)	
08:30- 19:00	Registration	
09:00-11:00	Keynote Speech Chair: Ashok Chandra, TPC Executive Chair, WPMC/ GWS-2015 Lars Kiekegaard, Teracom, Denmark Ramesh Rao, University of California, San Diego, USA	
11:00-11:30	COFFEE BREAK	
11:30-13:30	WPMC Special Session on “Smart Village ‘Rural Model’: Basic Unit for a Digital India” Session Organizer and Chair: Mayur Dave, Institution of Electronics and Telecommunication Engineers, India	
	1570227716	Demonstrating SWiFiC - Sustainable WiFi for Rural Communication; Abhishek Thakur, Aarthi J, Amit Chawla, Chittaranjan Hota; BITS Pilani, Hyderabad Campus, Hyderabad, India
	1570234273	"IoT" based Smart Village: An Indigenous step towards 'Digital India'; Madhukant Patel[®], Piyush Yadav[®]; MD, Reve Automation LLP, Green Cloud iSoft P. Ltd., Dehradun, India
	1570234316	Rurbanisation of India; Bipin Pradeep Kumar, Gaia Smart Cities, India
	WVITAE Special Session on “Persuasive Multi Business Model Innovation in a World of Persuasive Technologies” Session Organizer and Chair: Peter Lindgren, Multi Business Model Innovation and Technology, Aarhus University, Denmark Session Co-organizers: Troels Christian, K. Andersen, Torben Bjerrum, Annabeth Aagaard, Ole Horn Rasmussen, Morten Karnøe Søndergaard Aarhus University, Denmark; Theodoor van Dongen, VDMBee, Veenendaal, The Netherlands	
	1570228216	Persuasive Technology and Business Models; Morten Karnøe Søndergaard, Peter Lindgren, Niels Einar Veirum; Stanford Peace Innovation Lab, Department of Business Development and Technology, Aarhus University, Denmark
1570228627	Service and Big Data business model in a world of persuasive technologies; Troels Christian K. Andersen, Torben Cæsar Bisgaard Bjerrum; Aarhus University, Herning, Denmark	
1570228634	Secure Persuasive Business Models and Business Model Innovation in a World of 5G; Peter Lindgren, Katharina Wuropulos; Aarhus University, Denmark	
13:30-14:30	LUNCH	
14:30-16:30	WPMC Workshop on “ Advanced Technologies and Promotion Strategies for Wi-SUN and the Wireless Grid Systems” Workshop Organizer and Chair: Fumihide Kojima, Japan	
	WVITAE Workshop on “Wearable and Nearable Internet of Things (WaNIOT 2015)” Workshop Organizer and Chair: Balamuralidhar P, Tata Consultancy Services (TCS), Bangalore, India	
16:30-17:00	COFFEE BREAK	
17:00-19:00	Matchmaking session – Indian industry meets Global Industry Organizer and Chair: Krishnal Sirohi, GISFI, India	
	RTX, Denmark	NIKSUN, USA
	Teracom, Denmark	Impact Innovations in Technology & Business (i2TB), India
	NEC , Japan	Karbon Mobiles, India
	WISDOM Pvt. LTD., India	
	WVITAE Special Session on “ Fiber-Wireless Convergence for broadband Connectivity in 5G perspective” Session Organizer and Chair: Jayashree Ratnam, International Institute of Information Technology, Hyderabad, India	
1570228022	Participation of Optical Backbone Network in Successful Advancement of Wireless Network; Rajarshi Mahapatra; CVR College of Engineering, India	
1570228026	On 5G Cellular Backhaul Networks; Mahima Mehta, Intel Mobile Communications India Pvt. Ltd., Bangalore, India	
1570228029	Regulatory issues in Fixed Mobile Convergence; G. Muralidhar , Robert Ravi; Telecom Regulatory Authority of India, India	
END of DAY 3 NETWORKING DINNER: FOYER		

Time Slot	Day3: Tuesday, December 15 MRG .01 Activities Workshops & Special Sessions (II-B)	
08:30- 19:00	Registration	
09:00-11:00	Keynote Speech	
11:00-11:30	COFFEE BREAK	
11:30-13:30	WVITAE Special Session on " Internet of Things (IoT)" Session Organizers: Birger Andersen[®], Knud Erik Skouby[®], Samant Khajuria[®], Technical University of Denmark, Copenhagen, Aalborg University, Copenhagen, Denmark Session Chair: Birger Andersen, Technical University of Denmark, Copenhagen, Denmark	
	Keynote Talk	IoT in Theory and Practice, Birger Andersen, Technical University of Denmark, Copenhagen, Denmark
	1570227404	Heuristic Trust in IoT; Bipjeet Kaur[®], Henrik Tange[®], Denmark Technical University[®], Wireless Center CTIF Copenhagen; Denmark
	1570228109	Cyber security for M2M Smart Grid; Sarmistha De Dutta[®], Prof. Ramjee Prasad[®], NIKSUN, Inc., USA[®] Center For TeleInfrastruktur, Aalborg University, Denmark
	1570228247	GET IoT- Green Computing and Energy Harvesting technology in Internet of Things (IoT); Jetendra Joshi, Anshumali Singh, Lakshya Gourav Moitra, Manash Jyoti Deka; NIIT University, Neemrana, Alwar, Rajasthan, India
	1570228361	An Energy Efficient Adaptive Wireless Link for Farms based on IoT technologies; T. Blaszczyk[®], P. Lynggaard[®], Technical University of Denmark, CMI, Aalborg University Copenhagen; Denmark
1570231008	Implementation Of Internet Of Things Using Near Field Communication For Parking Automation; Aishwarya Sanjay Ikhe, Sagar Jayant More, Priyanka Sanjay Suranglikar, Prashant S Dhotre; Sinhgad Institute of Technology and Science, Pune, India	
13:30-14:30	LUNCH	
14:30-16:30	WVIATE Special Session on "Spectrum Management and Networking for Multi-link Satellite and Terrestrial Communication Systems" Session Organizers and Chairs: Preetam Kumar, Vinay Kumar Trivedi, Akash Agarwal; Indian Institute of Technology Patna, India	
	Invited Talk	Vimal Bhatia, Associate Professor, IIT Indore, India
	Invited Talk	Preetam Kumar, Assistant professor, IIT Patna, India
	1570221151	Cancellation of Inter-Cell Interference in Downlink with No Backhaul Information Exchange; Shuvabrata Bandopadhyaya[®], Jibendu Sekhar Roy[®], Silicon Institute of Technology, Bhubaneswar, Odisha, School of Electronics Engineering, KIIT University, Bhubaneswar, Odisha; India
	1570226980	Performance Analysis Of Interference Cancellation In MIMO-FBMC; V.Padmapriya, N.Venkateswaran; SSN College of Engineering, Chennai, India
1570227724	Measurement and Identification of White Space using Low Cost SDR for Rural Wireless Broadband; Vinit Sharswat, Pradeep Godara, Abhijeet Bishnu, Vimal Bhatia; Indian Institute of Technology Indore, India	
16:30-17:00	COFFEE BREAK	
17:00-19:00	WVITAE Special Session on " eWALL" Session Organizer and Chair: Sofoklis Kyriazakos, CTIF, Aalborg University, Aalborg, Denmark	
	1570224200	Improving the Trustworthiness of Ambient Assisted Living Applications; Elias Z. Tragos[®], Pavlos Charalampidis[®], Alexandros Fragkiadakis[®], George Lambropoulos[®], Sofoklis Kyriazakos[®]; FORTH-ICS, Converge SA; Greece
	1570224206	Requirements and Challenges in Evaluation of Systems for Independent Living of Senior Citizens; Antun Kerner, Antonija Marinčić, Ana Koren, Dina Šimunić, Ramjee Prasad; Faculty of Electrical Engineering and Computing, University of Zagreb, Croatia
	1570224166	Virtual sensing environment for care at home; Aristodemos Pnevmatikakis; Athens Information Technology, IRIS Laboratory, Athens, Greece
	1570224167	Expression recognition using graph based feature selection; Krasimir Tonchev, Nikolay Neshov, Agata Manolova, Vladimir Poulkov; Technical University of Sofia, Bulgaria
	1570213206	Participatory Heuristic Evaluation of the First Iteration of the eWALL Interface Application; Clara Schaarup[®], Louise Bilenberg Pape-Haugaard[®], Stine Veje Hangaard[®], Albena Mihovska[®], Ole Hejlesen[®], Department of Health Science and Technology, Center for TeleInfrastruktur; Aalborg University, Aalborg, Denmark
1570195309	Non Audio-Video gesture recognition system; Razvan Craciunescu, A. Mihovska; Center for TeleInfrastruktur; Aalborg University, Aalborg, Denmark	
END of DAY 3 NETWORKING DINNER: FOYER		

HALL 1

MR G.01

MR G.01

MR G.01

Time Slot	Day3: Tuesday, December 15 MRG .02 Activities Workshops & Special Sessions (II-C)	
08:30- 19:00	Registration	
09:00-11:00	Keynote Speech	
11:00-11:30	COFFEE BREAK	
11:30-13:30	WPMC Special Session on "Manufacturing Engineering" Session Organizer and Chair: Dnyandeo Dattatray Shinde, Sandip Foundation, Sandip Institute of Engineering & Management, Nashik, Maharashtra, India	
	Invited Talk	Total Productive Maintenance (TPM) an overview; Rajendra G. Tated ; Sandip Foundations, Sandip Institute of Engineering and Management, Nashik, India
	Invited Talk	Application of KK pillar of TPM – An Industrial Case study; J. P Yavalkar ; TPM-Learning center, Bajaj auto ltd. Waluj Aurangabad, India
	Invited Talk	Lean Six Sigma - Success Story of Kavach; Jadhav Ganesh A. ; Gabriel India Ltd. Pune, India
13:30-14:30	LUNCH	
14:30-16:30	WPMC Special Session on "Manufacturing Engineering" (Contd.) Session Organizer and Chair: Dnyandeo Dattatray Shinde, Sandip Foundation, Sandip Institute of Engineering & Management, Nashik, Maharashtra, India	
	1570226974	Identifying Root Causes for Students Problems in Technical Education using Fishbone Diagram; Dnyandeo Dattatraya Shinde¹, Shwetambari Sanjay Ahirrao², Prachi Dilip Shinde³, Rajendra G. Tated⁴, Morten Falch⁵ ; ¹ Sandip Foundations, SIEM, Nashik, India, ² Center for Communication, Media and Information Technologies (CMI), Aalborg University Copenhagen, Denmark
	1570226994	Effect of Newly Designed Burnishing Tool on Surface Micro hardness of AA6351; A. S. Maheshwari ¹ , Dr. R. R. Gawande ² ; ¹ Sandip Institute of Technology & Research Centre, Nashik. (Maharashtra), ² Bapurao Deshmukh College of Engineering, Wardha (Maharashtra); India
	1570228066	Application of Principal Component Analysis to Magnetic Abrasive Finishing; Sandip B. Gunjal, P. J. Pawar ; K.K.W.I.E.E. & R, Nasik, India
	1570227495	Metric Based Efficiency Analysis Of Educational ERP System Usability - Using Fuzzy Model; Anil Kumar, Reza Tadayoni, Lene Tolstrup Sorensen ; Department of Electronic Systems, Aalborg University, Denmark
	1570227534	A Brief Review on Process Parameter Optimization of GMAW Process and Grey-based Taguchi Method; U. V. Patil, G. R. Naik ; KIT's College of Engineering, Shivaji University, Kolhapur, India
1570227977	Vehicle Monitoring and controlling system using CAN protocol; Mosam Sangole ¹ , Vicky Chaudhary, Vishakha Nighute, Priyanka Satpute ; Sandip Foundation Nashik, Maharashtra, India	
16:30-17:00	COFFEE BREAK	
17:00-19:00	WPMC Special Session on "Manufacturing Engineering" (Contd.) Session Organizer and Chair: Dnyandeo Dattatray Shinde, Sandip Foundation Sandip Institute of Engineering & Management, Nashik, Maharashtra, India	
	1570227004	Application of Real Coded Genetic Algorithm to Dynamic Layout Benchmark Problem; Kailas V. Chandratre, P.J. Pawar ; , K.K.W.I.E.E. & R, Nasik, India
	1570227011	Model Development for Preventive Maintenance and Replacement Policy; Anand S. Relkar, Keshav N. Nandurkar ; ¹ S. I.T.R.C., Nashik, ² K.K.W.I.E.E.R, Nashik; India
	1570227290	Vacuum Gripper Design For An Industrial Handling System; Ajinkya Vasant Nichit, Suraj Ramesh Jadhav, Anirudh Arun Desai, Vishal Eknath Patil ; Sandip Institute Of Engg. & Mangt. Nashik, India
	1570228555	Automatic Ration Distribution System-A Review; Swapnil R. Kurkute, Dipak P. Patil, Chetan Medhe, Ashwini Kshirsagar, Ashlesha Revgade ; SIEM Nasik, India
	1570227469	Self -Balancing Platform for Personal Transport; Yogesh Risodkar , Ganesh Shirsath, Monali Holkar, Mayur Amle ; SIEM, Sandip Fondation, Nashik, India
1570228052	Decommissioning of Nuclear Facilities and Dose Rate Calculations for Nuclear Power Plant Staff; Pushkar Prashant Lachake, Dnyandeo Dattatraya Shinde ; Sandip Institute of Engineering and Management, Nashik, India	
END of DAY 3 NETWORKING DINNER: FOYER		

Time Slot	Day3: Tuesday, December 15 MRG .03 Activities Contributed Papers: Physical and Fundamentals (II-A)	
08:30-19:00	Registration	
09:00-11:00	Keynote Speech	
11:00-11:30	COFFEE BREAK	
11:30-13:30	Physical and Fundamentals (II-A-1) Antenna & Circuit Design, Analysis and Investigation: WPMC Session Chair: Laxminarayana Pillutla; Dhirubhai Ambani Institute of Information and Communication Technology, India	
	1570213114	Design Optimization and SAR Evaluation of SS-UWB Patch Antenna for WBAN; Vivek Kumar, Sravanth Kumar Ramakuri; Bharat Gupta; Birla Institute of Technology Mesra, Ranchi, India
	1570210207	Radar Range and Range Resolution Enhancements; Uma S Jha, Erik Chowdhury; Space & Airborne Systems, Raytheon Co, El Segundo, California, USA
	1570209793	SIW based Antipodal Linear Tapered Slot Antenna for Inter-Satellite Communication Links at 60 GHz; Nishesh Tiwari, T Rama Rao, Purva Shrivastava; SRM University, Chennai, India
	1570192429	SAR and Thermal effects of a Body Wearable Microstrip Antenna at UHF and UWB frequencies; Varshini Karthik, T Rama Rao; SRM University, Chennai, India
1570213460	Antenna Radiation Pattern Based 3D Localization Technique; Amarlingam Madapu, Pachamuthu Rajalakshmi, Vinod Kumar Netad, Masaya Yoshida, Kiyohito Yoshihara; Indian Institute of Technology Hyderabad, Hyderabad, India, KDDI R&D Laboratories Inc., Green and M2M Application Laboratory Iidabashi, Japan	
13:30-14:30	LUNCH	
14:30-16:30	Physical and Fundamentals (II-A-2) LTE & Multiple Access Techniques (OFDMA/OFDM/SC-FDMA, MIMO, SISO): WPMC Session Chair: Uma S. Jha, Raytheon Co., California, USA	
	1570213429	Distributed Spatial Modulation-OFDM in Uplink Relay-assisted Cellular Network; Kunal Sankhe, Rama Garimella; International Institute of Information Technology, Hyderabad, India
	1570213444	Simultaneous Transmission of Information and Energy in OFDM Systems; Sumit Gautam, P. Ubaidulla; International Institute of Information Technology-Hyderabad, India
	1570210151	Blind Channel Length Estimation for OFDM Systems using Cumulant Features; Ajay Kambhampati, Udit Satija, Baratram Ramkumar, M Sabarimalai Manikandan; IIT-Bhubaneswar, India
	1570213302	A Feasibility Analysis of LTE-CommSense; Amit K. Mishra, Mohammed Zafar Ali Khan, Santu Sardar; Department of Electrical Engineering, University of Cape Town, South Africa, Department of Electrical Engineering, IIT Hyderabad, India, ANURAG, Defence Research & Development Organization, India
1570167111	An Efficient Resource Block Allocation Algorithm in LTE-Based Systems with User Rate Constraints; Vijay Gutta, AmruthMuddana, T K Ramesh; Amrita VishwaVidyaapeetham, India	
1570213529	Basic limits for LTE-Advanced radio and network planning with carrier aggregation; Fernando J. Velez, Jessica Acevedo, Daniel Robalo; Instituto das Telecomunicações - DEM Universidade da Beira Interior, Faculdade de Engenharia, Covilhã, Portugal	
16:30-17:00	COFFEE BREAK	
17:00-19:00	WVITAE Special Session on " Selected Topics in Physical & Fundamentals-1" Session Organizer and Chair : Dhanajay Kumar Singh, Singhad College of Engineering, Lonavala, India	
		Performance of MIMO Detection Techniques with Spatial Multiplexing; Soma Umamaheshwar, Tipparti Anil Kumar, K Srinivas Rao; SR Engineering College, SVS Group of Institutions, TRR College of Engineering, Telangana, India
		Reducing memory consumption with a lossless image compression algorithm based on predictive coding; Rupali S. Vairagade; Singhad Institute of Technology and Science, Pune, India
		Enhancement in Spectral Efficiency using Circular Convolution in MIMO FBMC towards Wireless Network 5G; Payal P. Tayade, Vandana M. Rohokale, SKNSITS, Lonavala, India
		Performance Analysis of Group based Cooperative Sensing Schemes; K Jyostana, N. Vandana, Swathi Roja, B. N. Bhandari; VNR Vignana Jyothi Institute of Engineering and Technology, Jawaharlal Nehru Technological University; Hyderabad, India
	A Comparative Study of Channel Estimation for MIMO-OFDM system; G Surendher, Sree Chaitanya Institute of Technological Sciences, Karimnagar, India	
19:30-22:30	END of DAY 3 NETWORKING DINNER: FOYER	

Time Slot	Day3: Tuesday, December 15 MRG .04 Activities Contributed Papers: Physical and Fundamentals (II-B)	
08:30- 19:00	Registration	
09:00-11:00	Keynote Speech	
11:00-11:30	COFFEE BREAK	
11:30-13:30	Physical and Fundamentals (II-B-1) Channel Fading and Selection :WVIATE Session Chair-Ernesthina Cianca, University of Rome, Tor Vergata, Italy	
	1570208291	Joint Channel Estimation and CCI Cancellation for STBC-OFDM System in Fast Fading Channel; Jyoti P Patra, Prasanta Kumar Pradhan,, Poonam Singh, Sarat Kumar Patra; National Institute of Technology Rourkela, India
	1570210195	Rate Independent Multicarrier Variable Rate Scheme over Frequency Selective Channel; Akash Agarwal, Vijay Mukati, Preetam Kumar; Indian Institute of Technology, Patna, India
	1570210219	Performance of Amplify-and-Forward Cooperative Diversity under Ricean Fading; Maja Delibasic, Milica Pejanovic-Djurisic, Zoran Veljovic; University of Montenegro, Montenegro
	1570213163	Performance of a space-time coded MC-CDMA system in a Rayleigh fading channel; Olanrewaju B Wojuola, Stanley H. Mneney, Viranjay M Srivastava; University of KwaZul-Natal, South Africa
	1570194569	A new shaping code for PAPR Reduction in Single-Carrier Modulation; Yonathan Tate, Dan Raphaeli; Tel Aviv University, Israel
1570207637	PAPR Reduction Comparison of the MC-CDMA System with Various Companding Techniques; Sarala Beeram [®] , Bhagya sree Vonguru [®] , BN Bhandari [®] , Dronam Raju Venketeswarlu [®] ; [®] M V S R Engineering College, Hyderabad & Osmania University; [®] B E & Osmania University, Hyderabad; [®] JNT University Hyderabad; India	
13:30-14:30	LUNCH	
14:30-16:30	Physical and Fundamentals (II-B-2) Physical Channel: WPMC Session Chair- Thomas J. O. Afullo, University of KwaZulu-Natal, South Africa	
	1570213381	On Detection Improvement in MC-CDMA Image Watermarking on Fading Channel; Santi Prasad Maity [®] , Seba Maity [®] ; [®] Indian Institute of Engineering Science and Technology, Shibpur, [®] CEMK, Kolaghat, India
	1570213387	On the Backhaul Reduction in Joint Transmission Network with Channel Uncertainty; Zhangxing Liu, Hui Tian, Cheng Qin ; Beijing University of Posts and Telecommunications, China
	1570212327	Variable Encoding and Sequencing Pattern Driven Multiple Image Bit Watermarking for Wireless Domain; Soumit Chowdhury [®] , Nabin Ghoshal [®] ; [®] Govt. College of Engineering & Ceramic Technology, Kolkata, [®] University of Kalyani, India
	1570177831	Improving Performance of Impulsive Noise Canceller Under Class A Impulsive PLC Channel; Hirotoyo Yasui, Akira Nakamura, Makoto Itami; Tokyo University of Science, Japan
	1570211271	A Generic and Compatible Implementation for 2D and 3D Geometry-based Stochastic Channel Models; Zhenzi Liu, Tian Lei, Yuming Bi, Pan Tang, Wei Chen, Jianhua Zhang; Beijing University of Posts and Telecommunications, China
1570209407	Low Rate Common Control Channels with Distributed Cross-Layer Optimization via Genetic Algorithm; Pranoti Balki, Kishor P. Patil; Sinhgad Academy of Engineering, Pune, India	
16:30-17:00	COFFEE BREAK	
17:00-19:00	Physical and Fundamentals (II-B-3) Performance, Analysis and Ranking: WPMC Session Chair- Mqhele Dlodlo, University of Cape Town, South Africa	
	1570194241	Analysis of Data Transmission Management through Software Defined POX Controller; Vaishnavi Moorthy, Revathi Venkatraman; SRM University, Chennai, India
	1570193591	Design and Performance Analysis of a Penta-band Spiral Antenna for Vehicular Communications; Ramya R, T Rama Rao; SRM University, Chennai, India
	1570194537	Performance Analysis of Energy Detector in Correlated Log-normal Fading Channels for IR-UWB Systems; S. Josephine, Anil Mahanta, P. R. Sahu; IIT Guwahati, India
	1570208727	Performance Comparison of Various Detection Methods for QO-STBC over Time Selective Channel; Jyoti Patra, Poonam Singh; National Institute of Technology Rourkela, India
	1570211595	Design and Data Analysis of a Signal Measurement System Based on Variable Signature Sequences; Ji-Hyun Moon, Jeong-Ho Kim, Na-Hyung Kim, and Bing Yuan Chen; Ewha Womans University, Republic of Korea
1570191499	Ranking of Total Productive Maintenance pillars using Analytical Hierarchy Process; Dnyandeo Shinde [®] , Morten Falch [®] , Rajendra Tated [®] , Ramjee Prasad [®] ; [®] Center for Communication, Media and Information Technologies (CMI), Aalborg University Copenhagen,Denmark, [®] Aalborg University Copenhagen,Denmark, [®] Sandip Foundations, Nashik, India, [®] CTIF, Aalborg University, Denmark	
END of DAY 3 NETWORKING DINNER: FOYER		

HALL 1

MRG .04

MRG .04

MRG .04

Time Slot	Day3: Tuesday, December 15 MRG .05 Activities Contributed Papers: Efficient Wireless Communications	
08:30- 19:00	Registration	
09:00-11:00	Keynote Speech	
11:00-11:30	COFFEE BREAK	
11:30-13:30	Efficient Wireless Communications (A) Energy Harvesting: WPMC Session Chair- Sudhanshu S. Jamuar, University of Malaysia Perlis, Malaysia	
	1570213231	Energy-Efficient Resource Allocation for Hybrid Services with QoS Requirements in Cellular Network; Yuhao Zhang, Ning Wang, Baoling Liu ; Beijing University of Posts and Telecommunications, China
	1570192925	DEAR: An Energy-centric Adaptive Region of Interest Mechanism for Wireless Mobile Devices; Hrshikesh Venkataraman¹, Ting Bi², Ting Wu³, Gabriel-Miro Muntean⁴ ; ¹ Center for Smart Cities, Indian Institute of Information Technology (IIIT), Chittoor, Sricity, AP, India, ² Performance Engineering Laboratory, Dublin City University (DCU), Glasnevin, Dublin 9, Ireland
	1570192965	EDAS- Energy-Efficient Device-based Adaptive Cross-Layer Scheme for Wireless Multimedia Transmission; Hrshikesh Venkataraman¹, Shen Wang², Gabriel-Miro Muntean³ ; ¹ Center for Smart Cities, Indian Institute of Information Technology (IIIT), Chittoor, Sricity, AP, India, ² Performance Engineering Laboratory, Dublin City University (DCU), Glasnevin, Dublin 9, Ireland
	1570194465	Energy Efficient Scheduling Algorithm for the Real-time Multicast and Unicast Services; Min Wang¹, Qiaoyun Sun², Shuguang Zhang³, Yinlong Liu⁴, Yu Zhang⁵ ; ¹ Information School, Beijing City University; ² Institute of Information Engineering Chinese Academy of Sciences, Beijing; China
	1570213117	Secrecy Outage of a Cognitive Relay Network with Energy Harvesting and Imperfect CSI; Pranabesh Maji, Binod Prasad, Sanjay Dhar Roy, Sumit Kundu ; National Institute of Technology, Durgapur, India
1570213446	Analytical Model of Relay Node Integrating IEEE 802.15.4 MAC and Energy Conserving State Behaviour; Rajavaraprasad Yerra, Malyala Pavana Ravi Sai Kiran, Pachamuthu Rajalakshmi ; Indian Institute of Technology Hyderabad, India	
13:30-14:30	LUNCH	
14:30-16:30	Efficient Wireless Communications (B) Security, Trust, Privacy and Authentication: WPMC Session Chair- Vandana Rohokale, SIT, Lonavala, India	
	1570194123	Elliptic Curve Cryptography based Key Management for the M2M Local Cloud Platform; Bayu Anggorojati¹, Neeli Rashmi Prasad², Ramjee Prasad³ ; ¹ Center For TeleInfrastruktur, Aalborg University, Denmark; ² Center For TeleInfrastruktur, USA
	1570210161	Privacy-Preserving Friend Matching Protocol approach for Pre-match in Social Networks; Shubhangi S.Ople¹, Aaradhana A. Deshmukh², Albena Mihovska³, Ramjee Prasad⁴ ; ¹ Savitribai Phule Pune University, India, ² CTIF, Department of Electronics Systems Aalborg University, Aalborg, Denmark
	1570195039	A certificate-driven Approach to Access Control in Future Internet; Nancy Ambritta¹, Poonam Railkar², Parikshit Narendra Mahalle³ ; ¹ Sinhgad Institute of Technology and Sciences & Smt. Kashibai Navale College of Engineering, ² Smt. Kashibai Navale College of Engineering of Engineerin, Pune University; India
	1570195141	A Modified RFID Authentication Protocol Using Elliptic Curve Cryptography; Rajesh Dochania, Nirmal Roberts, Karm V Arya ; ABV-Indian Institute of Information Technology and Management, Gwalior, India
1570213335	Secure and Privacy Enabled Anonymous Computing for Heterogeneous (SPEACH) IoT; Meena Singh, Rajan M A, Shivraj VI, P. Balamuralidhar ; Tata Consultancy Sevices Limited, India	
16:30-17:00	COFFEE BREAK	
17:00-19:00	Efficient Wireless Communications (C) Security, Trust, Privacy and Authentication: WVITAE Session Chair-K.V. Arya, AVIITM, Gwalior, India	
	1570213434	Architectural Integration for Security in Advanced Metering Infrastructure; Priyanka D.Halle¹, Vandana Rohokale², Ramjee Prasad³ ; ¹ E&TC SKNSITS, Lonavala, India ² Center For TeleInfrastruktur, Aalborg University, Denmark
	1570194669	Trustbook: A Trust-based access control in Online Social Networks; Vedashree Takalkar, Parikshit Narendra Mahalle ; Savitribai Phule Pune University, STES, Pune, India
	1570210113	Daubechies Wavelet based Effective Data Authentication in Wireless Domain; Anirban Goswami¹, Nabin Ghoshal² ; ¹ Techno India, ² University of Kalyani; India
	1570211897	Mesh IP Video Surveillance Systems Model Design and Performance Evaluation; Smart Lubobya¹, Mqhele E. Dlodlo², De Jager Gerhard³, Ackim Zulu⁴ ; ¹ University of Cape Town, South Africa; ² University of Zambia, Zambia
	1570210201	Secret Transmission through Audio Signal with Reduced Distortion for Wireless Communication (STASRD); Dipnkar Pal¹, Nabin Ghoshal² ; ¹ Techno India, ² University of Kalyani; India
1570209931	Secure E- Voting System with integration of NFC, Biometrics and Cloud Computing; Amol Potgantwar¹, Tejas Upasani² ; ¹ Sandip Foundation, ² Savitribai Phule, ³ Pune University; India	
END of DAY 3 NETWORKING DINNER: FOYER		

Time Slot	Day3: Tuesday, December 15 MRG .06 Activities 23rd GISFI Standardization Series Meeting Meeting on Security and Privacy/ WWSMC	
08:30- 19:00	Registration	
09:00-11:00	23rd GISFI Standardisation Meeting on Security and Privacy/ WWSMC: <i>Session Chair: Anand R. Prasad, NEC Corporation Japan; Session Organiser: Anand R. Prasad, NEC Corporation Japan; Krishna Sirohi, NIKSUN, USA; Sivabalan Arumugam, NEC Mobile Network Excellence Centre(NMEC), NEC India Pvt Ltd, India</i>	
	Opening by Co-Chairs: Anand R. Prasad , Chief Advanced Technologist, Executive Specialist, NEC Corporation ; Krishna Sirohi , Senior Advisor, Niksun	
	Session 1: Cyber Security for Financial Sector Moderator: Krishna Sirohi , NIKSUN Topic: Cyber Security; B.M. Mehtre , Associate Professor and Coordinator, Center for Cyber Security (CCS), Institute for Development and Research in Banking Technology (IDRBT)	
	Session 2: IoT Security Moderator: Krishna Sirohi , NIKSUN Topic: Internet of Things – Security; Sivabalan Arumugam , NEC Mobile Network Excellence Centre(NMEC), NEC India Pvt Ltd	
11:00-11:30	COFFEE BREAK	
11:30-13:30	GISFI Special Session on Security and Privacy/ WWSMC-1	
	Session 3: Communication System Security Moderator: Dr. Anand R. Prasad, NEC Corporation	
	Topic: Telecom Security ; Vijay Madan , Chief Mentor - IT & Technology, Network Operation, Tata Teleservices Limited	
	Topic: Telecom Security ; Alf Zugenmaier , Professor, Munich University of Applied Sciences	
	Topic: Network Security; Kannan Srinathan , Professor, IIIT Hyderabad	
Topic: Wired & Wireless Security G.K. Satyanarana ; Head, Telecom, ECIL, Hyderabad		
13:30-14:30	LUNCH	
14:30-16:30	GISFI Special Session on Security and Privacy/ WWSMC-1	
	Session 4: Cloud & Platform Security Moderator: Dr. Sivabalan Arumugam, NEC India Pvt Ltd	
	Topic: Security issues in Next Generation Wireless Networks; Ram Murthy Garimella , Professor, IIIT Hyderabad	
	Topic: Information Security - Cloud Environment ; Gopala Rao Jammi , Professor , MEC (A Group of TechM), Hyderabad	
	Topic: Mobile PKI , Zia Saquib , Scientist, CDAC, Hyderabad	
Topic: Personal Safety: Next Frontier in Mobile Security ; Kulkarni Dattatraya , Intel Security Group, Bangalore		
16:30-17:00	COFFEE BREAK	
17:00-19:00	GISFI Special Session on Security and Privacy/ WWSMC-2	
	Session 5: Panel Discussion “What are the pains? What is needed?” Moderator: Dr. Anand R. Prasad, NEC Corporation	
	Vijay Madan , Chief Mentor - IT & Technology, Network Operation, Tata Teleservices Limited	
	Mr. G.K. Satyanarana , Head, Telecom, ECIL, Hyderabad	
	Mr. Krishna Sirohi , Senior Advisor, NIKSUN	
Dr. Alf Zugenmaier , Professor, Munich University of Applied Sciences		
END of DAY 3 NETWORKING DINNER: FOYER		



Program

Wednesday, December 16

Day 4

"Workshops, Special Sessions, Contributed Papers"

Time Slot	Day4: Wednesday, December 16 Workshops & Special Sessions (III-A)	
08:30- 19:00	Registration	
09:00-11:00	Keynote Speech Session Chair : Ramjee Prasad, Center for TeleInfrastructure , Aalborg University, Denmark fred Harris, San Diego State University, USA Laurent Herault, CEA-LETI, France	
11:00-11:30	COFFEE BREAK	
11:30-13:30	Second International Workshop on Innovation and Entrepreneurship(IWIE)- III Workshop Organizer and Chair: Sofoklis Kyriazakos, CTIF, Aalborg University, Denmark	
	WVITAE Special Session on "Communication, Navigation, Sensing and Services (CONASENSE)" - I Session Organizers and Chairs: Leo Ligthart, Tu-Delft, the Netherlands; Ernestina Cianca, University of Rome Tor Vergata, Italy	
	1570227732	Modified RAR and PLSR-based artifact removal for stroke detection in UWB radar imaging; E. Ricci, A. Colucciello, S. Di Domenico, E. Cianca, T. Rossi ; University of Rome "Tor Vergata", Rome, Italy
	1570228263	Communication Framework for Tele-rehabilitation Systems with QoS Guarantee; Plamen Semov, Nikolay Dandanov, Georgi Balabanov, Krasimir Tonchev and Vladimir Poulkov ; <i>Technical University of Sofia, Bulgaria</i>
	1570230189	vNet Zero Energy for Radio Base Stations- Balearic Scenario [®] ; Pere Sabater Frau [®] , Albena Mihovska [®] , Ramjee Prasad [®] , Andreu Moia Poi [®] , Angel Igelmo Ganzo [®] , Xavier Canals Solé [®] , Jaume Ochogavia Colom [®] ; <i>Center for TeleInfrastruktur (CTIF) Aalborg University, Denmark</i> ; [®] <i>Universitat Illes Balears (UIB)</i> , [®] <i>Telefonica España S.A.</i> , [®] <i>Balearic Islands Government, Spain</i>
1570236132	Reliable Frame Selection for Speaker Identification under Voice Disguise Scenario; Swati Prasad, Ramjee Prasad ; <i>Centre for TeleInfrastruktur (CTIF), Aalborg University, Aalborg, Denmark</i>	
1570228151	Performance Analysis of SOFDM Transmission Scheme over Integrated Satellite/Terrestrial Network; Akash Agarwal[®], B. M. Bhaveja[®], Preetam Kumar[®] ; <i>Indian Institute of Technology Patna[®], Department of Electronics & Information Technology (DeitY) New Delhi, India</i>	
13:30-14:30	LUNCH	
14:30-16:30	Second International Workshop on Innovation and Entrepreneurship(IWIE)- III (Contd) Workshop Organizer and Chair: Sofoklis Kyriazakos, CTIF, Aalborg University, Denmark	
	WVITAE Special Session on "Communication, Navigation, Sensing and Services (CONASENSE)" -II Session Organizers and Chairs: Leo Ligthart, Tu-Delft, the Netherlands; Ernestina Cianca, University of Rome Tor Vergata, Italy	
	1570226963	Efficient Filtering Technique for Chronic Wound Image Processing under Tele-Wound Network; Chinmay Chakraborty, Bharat Gupta ; <i>Birla Institute of Technology Jharkhand, India</i>
	1570227100	End-to-End Delay Analysis of IEEE 802.15.6 Standard for WBAN Medical Paradigm; Vivek Kumar, Bharat Gupta ; <i>Birla Institute of Technology Jharkhand, India</i>
	1570227212	Relevance of signal processing of the voice in diagnosing human tuberculosis; Giovanni Saggio[®], Santosh Bothe[®] ; <i>University of Rome "Tor Vergata", Rome, Italy</i> , [®] <i>Bharati Vidyapeeth University, Pune, India</i>
	1570227247	A P2P architecture for Mobile Assisted Logistic Operations; Pierpaolo Loreti*, Lorenzo Bracciale* , Francesco Zampognaro* , Massimo Povia† , Gianluca Gargiulo‡; *NITEL - University of Rome Tor Vergata, †Technosky Via del Casale Cavallari, §NAIS Via Andrea Noale; Rome, Italy
1570212132	GeoLocation Aware Dynamic Spectrum Sensing in Cognitive Radio Networks; K. Usha Bhargavi, R. L. Ujjwal ; <i>G G S Indraprastha University, New Delhi, India</i>	
16:30-17:00	1570230189	
END OF WPMC-2015 & GWS-2015		

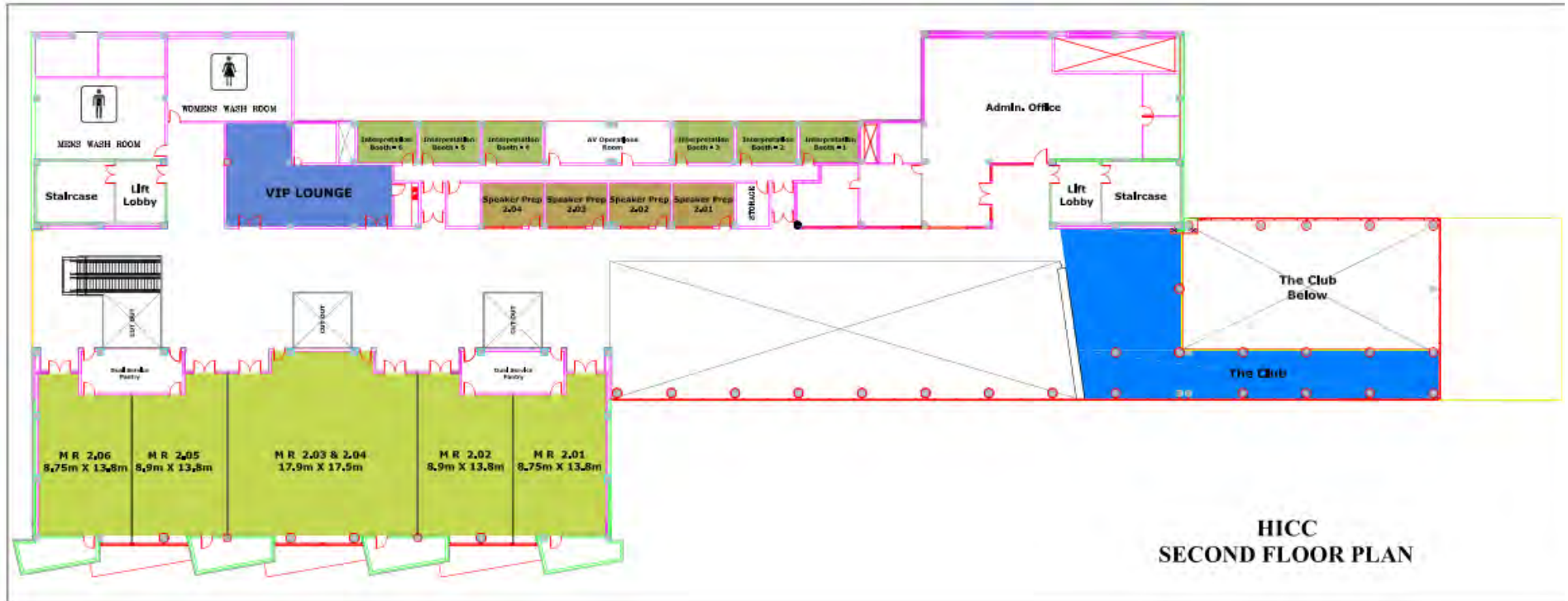


NEC



Floor/ Room Plan for December 13 Tutorials (Please see main Program for room numbers)

Please follow the link <http://www.hicc.com/floor-plans.html> for floor plans and details of HICC



Tutorials, Day 1, December 13, 2015

Rooms: MR 2.01 to MR 2.04

Note: Please follow the ground floor plan (Given in next page) to reach the access to the second



Floor/ Room Plan for December 14- 16 events (Please see main Program for room numbers)

Please follow the link <http://www.hicc.com/floor-plans.html> for floor plans and details of HICC

Central Events

09:30-11:30

December 14-16, 2015

Workshops and Special Sessions

11:30 until End of the day

December 14-16, 2015

1.1 & 1.2



ENTRANCE TO THE HICC & CONFERENCE HALL

Please Contact GWS Event Management Personnel or HICC Reception for queries and guide to HALLS/ Rooms

Technical Papers, 11:30 until End of the day, December 14-16

Workshops and Special Sessions, 11:30 until End of the day, December 14-16

Rooms: MRG .01 to MRG .06



Announcement

WPMC 2016

 GWS-2016

Wireless Personal
Multimedia
Communications -2016

Will be held at Shenzhen,
China
on
13th - 16th November,
2016

Global Wireless Summit
2016

Will be held at Dubrovnik
Croatia
on
18th - 21th September,
2016

