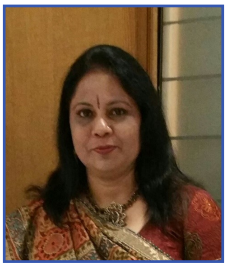
EAI International Conference on

FUTURE INTERNET TECHNOLOGIES AND TRENDS

31 AUGUST - 2 SEPTEMBER 2017 | SURAT—INDIA



Dr Upena Dalal

Holding a conference at International level requires a good team work, total dedication and devotion of time. I am really very happy to join hands with European Alliance for Innovations (EAI), which not only provided all the supports for maintaining the website and the Confy (the conference managing application for paper upload, review process, registration etc.) but also provided partial financial support as well reputed Springer publication support for publicizing the proceeding.

There cannot be boundaries for knowledge. A conference where experts and researchers with various exposures, experiences and proficiencies gather to discuss the state of the art topics. The theme of our conference is nothing but next generation requirements, i.e. mainly 5G requirements and hence the title of the conference selected is 1st EAI International Conference on Future Internet Technologies and Trends (ICFITT 2017).

The journey of conference started because of the past student of EC Department, SVNIT, Mr Yatindra Shashi, who has been working under Dr Imrich Chlamtac, the President of EAI. Mr Yatindra introduced me to Dr Imrich, who then agreed to take up this task with me as a General Chair. I must take this opportunity to thank Dr Imrich for his consent and initiative. We formed the various committees and started the journey almost before one year. During this journey I got the whole hearted support from various people from EAI as well as from Electronics Engineering Department of SVNIT. I must not forget continuous support from especially Dominica, Veronica, Ivana, Lenka, Sinziana, Monika, with whom I had frequent correspondence through mail throughout the year regarding, queries, arrangements, agreements, policy decisions etc. I received immediate responses from them always...Thank you my friends..We received total 66 papers and after plagiarism check as well as rigorous review 45 papers were selected for presentation. Only registered papers are included for publication. Thanks and lots of appreciation to Springer for maintaining high quality in publications always.

I would like to thank our sponsors--EAI, Keysight Technologies, Gujcost, DRDO, Surat Alumni Association and CSIR, without whose financial support this conference would not take its shape. I thank Innovians Technologies for agreeing to handle one day workshop on IoT on 31st August, 2017. I also thank to my TPC team, all the keynote speakers, invited paper speakers, session chairs and registered participants. I express my deep gratitude towards our authority people--Director, Registrar, Chairman CCE, Dy Registrar (A/C) and administrative staff for providing the infrastructural support and approvals for various arrangements in the Institute premise.

I am thankful to Dr J N Sarvaiya, Head of EC Department, SVNIT and Coordinator of the conference, Dr Shweta Shah, another Coordinator of the conference, Dr Jigisha Patel, Local Chair and Chairs of sub-committees, my student team and non-teaching staff of the Department. Working with all of these people is a memorable experience for me.

I express my best wishes from the core of my heart for the fruitful deliberations by the speakers and participants on both 1st and 2nd September of 2017 and may this conference be a great event for everyone associated with it.

Dr Upena Dalal

General Chair, ICFITT 2017

Associate Professor, EC Department, SVNIT, Surat

Dr Ahcène Bounceur

BREST UNIVERSITY, FRANCE

Title

Finding the boundary nodes of a WSN using the D-LPCN algorithm and its simulation under CupCarbon

Abstract

Finding the boundary and the clusters of a wireless sensor network (WSN) can be modeled as the problem of finding a polygon hull in a connected Euclidean graph, the polygon hull representing a minimal set of connected boundary nodes. This keynote presents a new algorithm called D-LPCN (Distributed Least Polar-angle Connected Node), which has two main advantages. The first one is that the algorithm works with any type of connected network, given as planar or not. Furthermore, it takes into account any blocking situation and contains the necessary elements to avoid them. The second advantage is that the algorithm can determine all the clusters of the network. The proposed algorithm is validated using the CupCarbon, Tossim and Contiki simulators. It has also been implemented using real sensor nodes based on the TelosB and Arduino/XBee platforms. The energy consumption of the network is estimated and depends on the number of the boundary nodes and their neighbors. The simulation results show that the D-LPCN algorithm is less energy consuming than the existing algorithms.

Bio

Ahcene Bounceur is an associate professor (HDR and qualified for professorship) of Computer Science and Operations Research at the University of Brest (UBO). He is a member of the Lab-STICC Laboratory. He received a Ph.D. in Micro and Nano electronics at Grenoble INP, France in 2007. He received the M.S. degrees from ENSIMAG, Grenoble, France in 2003. From April 2007 to August 2008, he was a postdoctoral fellow at TIMA Laboratory. From September 2007 to August 2008, he was with Grenoble INP, where he was a temporary professor. He has obtained the 3rd place of the Annual IEEE Test Technology Technical Council (TTTC-IEEE) Doctoral Thesis Contest, Berkeley, May 2007. His current research activities are focused on: Tools for simulation of Wireless Sensor Networks (WSN) dedicated to Smart-cities and IoT, parallel models for accelerating simulations and predicting/testing parameters in WSNs, sampling methods for data mining and Big Data. He is the coordinator of the ANR project PERSEPTEUR and a partner of the eHealth project SUIDIA.

Dr Haitham Taha

Professor, University of Technology, Baghdad, Iraq

Title

Mathematically Wireless Communication Technologies

Abstract

Nowadays, the mobile telecommunications industry faces the problem of providing the technology that be able to support a wide variety of services ranging from voice communication with a bit rate of a few kbps to wireless multimedia, and rapidly expanding resulting in demand for systems that are reliable, have a high spectral efficiency and the need of modulation technique that can transmit high data rates at high bandwidth efficiency.

Most wireless communication technologies, mathematically was depend on the theory of Fast Fourier Transform (FFT) and the others using theory of Discrete Wavelet Transform(DWT) and doing by comparison between the two theories to be interpreted communication technology, and research has shown the benefits and disadvantages of each theory to the same technique.

We doing now to try to integrate the mathematical theories of some communications technologies in order to get a good the Signal to Noise Ratio (S/N) and a small Bit Error Rate (BER).

is a Senior Member of the UACEE.

Bio

Dr Haitham Jabbar Taha was born in Baghdad / Iraq (1969), received the Bachelor's degree, MSc. Degree from the University of Technology Baghdad, Iraq and Ph.D. degree in Electronics and Communication Engineering from the University of Technology Baghdad, Iraq and Universiti Sains Malaysia (USM) Malaysia. He is Lecturer in the Department of Electrical and Electronic Engineering, University Of Technology. He has published many papers in international journals and conferences. His teaching and research interest include digital communication, OFDM systems, MIMO System, signal processing. He works also as reviewer and editor in an International Journal and he had been as reviewer and program committees in international conferences, and editorial board member of the International Journals. He has supervised many Undergraduates and postgraduates students to graduation. He is a Member of the IEEE, IEICE, SCIEI and SDIWC. Also He is a Senior Member of the UACEE.

Mr Mombasawala

General Manager – Applications, Electronics Measurement Group, Keysight Technologies India Pvt. Ltd.

Title

Awakening of Machines & Things Through 5G and IoT Technologies

Abstract

Wireless communication landscape has been ever changing with the advent of new technologies to meet the needs of a connected world. Last two and half decades of wireless communication was focused on connecting human beings with the network. The next wave in this domain has multiple facets viz. connecting machines and things to the network, servicing mission critical applications with commercial wireless technologies and spreading augmented reality to masses. This lecture focuses on technological drivers enabling the next generation of wireless communication namely 5G and IoT (Internet of Things). 5G is poised to fulfill the requirements of enhanced mobile broadband (eMBB), massive machine type communication (mMTC) and ultra-reliability and low latency communication (uRLLC). These three visionary objectives demand different innovation in the technology. While enabling eMBB requires data rates of the order of ≥1Gbps which in turn is driving research and development in mmWave bands specifically 24 GHz, 28 GHz, 37 GHz, 45 GHz and even 5786 GHz. This is also pushing the communication bandwidth requirements to go as wide as 2 GHz. Enabling mMTC requires low cost devices with simplified designs and also simplified communication schemes. This need innovation in energy efficient electronics and simplified protocols. The focus is also on making software ultra-stable and light. Lastly, uRLLC objective is to ensure monitoring and control happening in real-time which is enforcing the need for ultra-low latency in the range of 1 ms which is not achievable with current wireless technologies. uRLLC aims to make automation of energy distribution in a smart grid, remote machinery, remote medical surgery and driverless cars a reality and these applications demand the new technology to be ultra-reliable.

These advancements in technology requires paradigm shift in network architecture and a significant research and development activity is focusing on centralized radio access network (C-RAN). Centralized RAN will be enabled by baseband pooling to enable on-demand provisioning of capacity and adapt to the operator and subscriber over time and space. While 3GPP is working on next generation of technologies based on licensed spectrum, there has been noteworthy innovations in un-licensed spectrum technologies falling under the head of low power wide area network (LPWAN). Proprietary technologies like LoRA, Sigfox and Telensa have already enabled real world applications under the purview of IoT. IEEE 802.11 based technologies are also evolving to enable vehicle to vehicle communication and IoT application.

Bio

Mombasawala Mohmedsaeed currently heads the Application Engineering Organization of the Electronics Measurement Group of Keysight Technologies in India.

Mombasawala Mohmedsaeed has 26 years of experience in various technology domains in the field of Electronics, Communication, Optical and Network Operations.

Dr Lalit Kumar Singh

Scientist, NPCIL-BARC, Dept of Atomic Energy

Title

Safety Analysis of Safety Critical Computer Based Systems using Mathematical Modelling

Abstract

Current life-critical system designs fully incorporate digital instrumentation and control systems. Due to safety significance of such systems, these need to be designed carefully to ensure their safety requirements. However, digital systems have some unique characteristics, such as using software, and may have different failure causes and/or modes than the analog systems; hence, their incorporation into life critical systems, safety analysis entails special challenges. The strategy to perform safety analysis using Petri net for full proof design will be discussed with a case study.

Bio

Dr. Lalit Kumar Singh received his Ph.D. degree from Indian Institute of Technology (Banaras Hindu University). He is currently a Scientist in NPCIL-BARC, Department of Atomic Energy, Government of India, since 16 years, and has distinction of working on Pressurized Heavy Water Reactors (PHWR) and Light Water Reactors (LWR). He has an illustrious career and succeeded in several critical jobs assigned to him in his illustrious career, though, each of them was challenging. His assignments over the years range from design, development, testing, IV&V, related research and site validation of the safety critical computer based systems of Indian Nuclear Power Plants. He has published several research papers in journals of high impact factor like IEEE Transactions, IEEE Computer, ACM, Elsevier, Quality & Reliability International, etc. He has been invited for chief guest, keynote speeches and talks in many international conferences, short term courses, workshops & faculty development programs from many IITs, NITs & other institutes of national importance. He is recipient of many awards like publication award, group achievement award, etc. He is a reviewer of several SCI indexed journals of high impact factor. He is a life member of Indian Nuclear Society. He is a member of editorial board of many reputed journals and guest lead editor of many special issues. He is supervising many PhD students of different IITs, NITs and is PhD thesis examiner of IITs, NITs and other reputed institutes. He is a reviewer and project collaborator of Research proposals of Board of Research in Nuclear Sciences (BRNS).His research interests are in the area of reliability, safety and security of safety critical computer based systems.

Manik Sharma

Assistant Professor, Department of Computer Science and Applications DAV University Jalandhar

Need of Intelligent and Advanced Healthcare Diagnostic Framework for Early Diagnosis of Lifestyle based Human Disorder

Abstract

Internet of Things commonly abbreviated as IoT is a well-defined internet technology; considerable amount of research is devoted to this topic in different areas, particularly in smart homes, smart cities, automotive and industrial internet. Additionally, it has also been effectively used for enrooting a smart solution for early diagnosis of different lifestyle based human disorders. IoT has fetched a gigantic revolt in lifestyle based healthcare automated system. However, still more progressive and united solution is needed that can offer therapeutic opinion to individual patients. In this talk, the design and working of an intelligent IoT based healthcare care solution will be discussed. Moreover, the role of different technologies like machine learning, soft computing, Chatbots, Granular Computing, Semantic Analysis in designing smart healthcare solution for lifestyle based disease will also be briefly discussed. No doubt, the practical implementation of this system is costly. However, it will provide very effective and economical healthcare solution to the lifestyle based human disordered patients. Moreover, the security threats related to IoT based healthcare system will also be highlighted.

Keywords: IoT, Lifestyle based Disorders, Granular Computing, Machine Learning and Security.

Ashish Jain

Application Engineer, Keysight Technologies India Pvt. Ltd

IoT Enabling Technologies and R&D Considerations for IoT Devices

Abstract

5G and IoT are the two buzz words in the current wireless industry. These two technologies are about to revolutionize the landscape of wireless communication by addressing the need for higher data rates, enabling connections of numerous *things* to the network and meeting the requirements of mission critical applications.

This lecture is focused on IoT enabling technologies which are broadly divided under the heads of licensed and un-licensed technologies. Use case of some of these technologies will be discussed. The lecture will also compare LTE and Cellular IoT for deeper understanding of these technologies.

Research and development considerations for IoT devices are significantly different from cellular devices. In this lecture, some of these considerations like importance of battery drain will be explained with example.

Thursday, 31 August 2017

8:30am - 9:00am	Registration
9:00am - 10:30am	Workshop Session—1
10:30am—10:45am	Tea break
10:45am—1pm	Workshop Session—2
1pm—2pm	Lunch break
2pm– 3:45pm	Workshop Session—3
3:45pm—4pm	Tea break
4pm—6pm	Workshop Session—4

Venue: Simulation Lab, Electronics Engineering Department, SVNIT, Surat

Note: Participants have to bring their laptop and a smartphone. Also bring active Wifi Router (i.e. JIO WiFi router) if possible.

Total registered participants are 52.

The workshop is conducted by Mr. Prateek Gupta Innovians Technologies.

Day 1 - Friday, 01 September 2017

8:30am - 9:30am	Registration
9:30am - 10:00am	Inauguration
10:00am—10:30am	Hi-tea
10:30am—11:30am	Key note speech by **Prof. Dr Ahcène Bounceur**, Associate Professor, Brest University, France
11:30am—12:30pm	Key note speech by **Dr Haitham Taha**, Professor, Department of Electrical and Electronics, University of Bagdad
12:30pm– 2:00pm	Lunch
2:00pm—3:30pm	Paper Presentation Session -1 Session chair: Prof. Nehal Shah, Electronics Engineering Department, SCET, Surat Paper Id: **271126, 271191 ,271193, 271499, 271500, 271563, 271595**
3:30pm—3:45pm	Tea Break
3:45pm—5:15pm	Paper Presentation Session -2 Session chair: Dr. A.D. Darji Paper Id: **271274, 271543, 271618, 271112, 271723, 271573, 271466, 272887**

Venue: Room No.604, New CRC, SVNIT

Note: List of Paper ID and corresponding details are on next page.

Day 2 - Saturday, 02 September 2017

9:30am - 10:45am	Expert Lecture by **Dr. Lalit Singh** Scientist, NPCIL-BARC, Dept of Atomic Energy, Govt. of India
10:45am—11:00am	Tea Break
11:00am—12:00pm	Expert Lecture by **Mr. Mombasawala**, General Manager – Applications Electronics Measurement Group Keysight Technologies India Pvt. Ltd
12:00pm—12:30pm	Expert Lecture by **Mr. Ashish Jain**, Application Engineer, Keysight Technologies India Pvt. Ltd
12:30pm– 2:00pm	Lunch
2:00pm—3:30pm	Paper Presentation Session -3 Session chair: Dr. Manik Sharma, Assistant Professor, Department of Computer Science and Application, DAV University, Jalandhar Paper Id: **271390, 271465, 271467, 271550, 271582, 271624**
3:30pm—3:45pm	Tea Break
3:45pm—5:15pm	Paper Presentation Session -4 Session chair: Dr. P. N. Patel Paper Id: **271340, 271457, 271702, 271575, 271650, 271664, 271464, 269398**

Venue: Room No.604, New CRC, SVNIT

Note: List of Paper ID and corresponding details are on next page.

Date: 01-09-2017, **Session – 1**, **Time:** 2.00 pm to 3.30 pm, **Session chair**: Prof. Nehal Shah

Sr.No	Paper ID	Title & Author
1	271126	LOGO: A New Distributed Leader Election Algorithm in WSNs with Low Energy Consumption **Ahcene Bounceur, Madani Bezoui, Umber Noreen, Reinhardt Euler, Farid Lalem, Mohammad Hammoudeh, and Sohail Jabbar**
2	271191	An Efficient Privacy Preserving System Based on RST Attacks on Color Image **Sheshang D. Degadwala, Dr. Sanjay Gaur**
3	271193	HiMod-Pert: Histogram Modification Based Perturbation Approach for Privacy Preserving Data Mining **Alpa Kavin Shah, Ravi Gulati**
4	271499	Exhausting Autonomic Techniques for Meticulous Consumption of Resources at an IaaS layer of Cloud Computing. **Vivek Kumar Prasad, Madhuri Bhavsar**
5	271500	Efficient Resource Monitoring and Prediction Techniques in an IaaS level of Cloud Computing: Survey **Vivek Kumar Prasad, Madhuri Bhavsar**
6	271563	Experimenting with Energy Ecient VM migration in IaaS Cloud: Moving towards Green Cloud **Riddhi Thakkar, Rinni Trivedi, Madhuri Bhavsar**
7	271595	Capacity Planning through Monitoring of Context Aware Tasks at IaaS level of Cloud Computing **Vivek Kumar Prasad, Harshil Mehta, Parimal Gajre, Vidhi Sutaria, Madhuri Bhavsar**

Date: 01-09-2017, **Session – 2, Time:** 3.45 pm to 5.15 pm, **Session Chair:** Dr. A. D. Darji

Sr.No	Paper ID	Title & Author
1	271274	ApEn-Based Epileptic EEG Classification Using Support Vector Machine **Hardika B. Gabani, and Chirag N. Paunwala**
2	271543	Comparative Analysis of PSF Estimation Based on Hough Transform and Radon Transform **Mayana shah, and Upena dalal**
3	271618	Compressive Sensing Based Image Reconstruction **Abraham Sherin , Pathak Ketki , Patel Jigna**
4	271112	Investigating Privacy Preserving Technique for Genome Data **Slesha S Sanghvi, Sankita J Patel**
5	271723	Dimensionality Reduction using PCA and SVD in Big Data: A Comparative Case Study **Sudeep Tanwar, Tilak Ramani and Sudhanshu Tyagi**
6	271573	A Comparative analysis of Ionospheric effects on IRNSS signals at low latitude region, Surat, India using GDF and Nakagami-m distribution **Sonal Parmar, Dr. Upena Dalal, and Dr. Kamlesh Pathak**
7	271466	Proximity and Community Aware Heterogeneous Human Mobility (P-CAHM) Model for Mobile Social Networks (MSN) **Zunnun Narmawala**
8	272887	Measuring the Effect of Music Therapy on Voiced Speech Signal **Pradeep Tiwari, Utkarsh V. Rane, A. D. Darji**

Date: 02-09-2017, **Session – 3, Time:** 2.00 pm to 3.30 pm, **Session Chair:** Dr. Manek Sharma

Sr.No	Paper ID	Title & Author
1		Invited Paper by Dr. Manik Sharma
2	271390	Ensuring Database and Location Transparency in Multiple Heterogeneous Distributed Databases **Shefali Naik**
3	271465	Variants of Software Dened Network (SDN) Based Load Balancing In Cloud Computing: A Quick Review. **Jitendra Bhatia, Ruchi Mehta, Madhuri Bhavsar**
4	271467	Analysis of Ionospheric Correction Approach for IRNSS/NavIC System Based on IoT Platform **Mr. Mehul V. Desai and Dr.(Mrs.) Shweta N. Shah**
5	271550	FFT Averaging Ratio Algorithm for IRNSS **Sreejith R, Mr. Mehul V. Desai, and Dr.(Mrs.) Shweta N. Shah**
6	271582	A new approach to Mitigate Jamming Attack in Wireless Adhoc Network using ARC Technique **Prof. Naren Tada, Pinal Rupani, Dr. Tejas Patalia**
7	271624	Optimize Spectrum Allocation in Cognitive Radio Network **Nidhi Patel, Ketki Pathak, Rahul Patel**

Date: 02-09-2017, **Session – 4, Time**: 3.45 pm to 5.15 pm, **Session Chair**: Dr. P. N.Patel

Sr.No	Paper ID	Title & Author
1	271340	Activity based Resource Allocation in IoT for Disaster Management **J Sathish Kumar, Mukesh A Zaveri, Meghavi Choksi**
2	271457	Performance Analysis of 32×10Gbps WDM system based on hybrid amplifier at different transmission length and dispersion **Dipika Pradhan, Abhilash Mandloi, Sajid Shaikh**
3	271702	A Review on Poly-Phase Coded Waveforms for MIMO Radar with Increased Orthogonality **Pooja Bhamre, Dr. S. Gupta**
4	271575	Designing of SDR Based Malicious Act: IRNSS Jammer **Ms. Priyanka L.Lineswala, Dr. (Mrs.) Shweta N. Shah**
5	271650	Sensitivity Analysis of Phase Matched Turning Point Long Period Fiber Gratings **Monika Gambhir, Shilpi Gupta**
6	271664	Performance Analysis of Nakagami and Rayleigh fading for 2 x 2 and 4 x 4 MIMO channel with Spatial Multiplexing **Mitesh S Solanki, Dr. Shilpi Gupta**
7	271464	Wavelet based Feature level Fusion Approach for Multi-Biometric Cryptosystem **Patel Heena, Paunwala Chirag and Vora Aarohi**
8	269398	Alleviation of Stress by Music Therapy **Pradeep Tiwari**

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This foundation is established by Alumni Mr Bhadresh Shah and Swapan Shah. It is dedicated to serve the society. The main activities of the Foundation are supporting educational programmes and healthcare facilities. It helps poor students and works devotedly for protecting the environment. This institute is active in Surat since last 20 years.

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Thank you for participating at EAI conference and

We hope to see you again!