

WICT 2012

2012 World Congress on Information and Communication Technologies

30 October — 02 November 2012
Trivandrum, India



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October 30-31, November 1-2, 2012



2nd World Congress on Information and Communication Technologies

WICT-2012

Venue : IIITM-K, Technopark Campus, Trivandrum



Co-organized by

**Machine Intelligence Research Labs
(MIR Labs), USA &**

Indian Institute of Information Technology and Management – Kerala
Technopark Campus, Trivandrum-695581, Kerala, India (IIITM-K)
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WICT 2012 - Welcome Message

Welcome to Thiruvananthapuram (Trivandrum), India and to the World Congress on Information and Communication Technologies (WICT 2012) during October 30- November 02, 2012. In the past century, our society has been through several periods of dramatic changes, driven by innovations such as transportation systems, telephone etc. Last few decades have experienced technologies that are evolving so rapidly, altering the constraints of space and time, and reshaping the way we communicate, learn and think. Rapid advances in information technologies and other digital systems are reshaping our ecosystem. Innovations in ICT allow us to transmit information quickly and widely, propelling the growth of new urban communities, linking distant places and diverse areas of endeavor in productive new ways, which a decade ago was unimaginable. Thus, the theme of this World Congress is "Innovating ICT for Social Revolutions".

The four day World Congress is expected to provide an opportunity for the researchers from academia and industry to meet and discuss the latest solutions, scientific results and methods in the usage and applications of ICT in the real world. WICT 2012 is Co-Organized by Machine Intelligence Research Labs (MIR Labs) and Indian Institute of Information Technology and Management – Kerala (IIITM-K). WICT 2012 is technically co-sponsored by IEEE Systems, Man & Cybernetics Society – Spain and Czechoslovakia Chapters and Technically Supported by IEEE Systems Man and Cybernetics Society, Technical Committee on Soft Computing.

Many people have collaborated and worked hard to produce a successful WICT-2012 conference. First and foremost, we would like to thank all the authors for submitting their papers to the conference, for their presentations and discussions during the conference. Our thanks to Program Committee members and reviewers, who carried out the most difficult work by carefully evaluating the submitted papers. WICT'12 received over 500 submissions from over 30 countries. The themes of the contributions and scientific sessions range from theories to applications, reflecting a wide spectrum of coverage of the ICT topics. Each paper was reviewed by at least five reviewers in a standard peer-review process. Based on the recommendation by five independent referees, finally 200 papers were accepted for publication in the proceedings published by IEEE.

We hope that you will find this program interesting and thought-provoking and that the conference will provide you with a valuable opportunity to share ideas with other researchers, students, developers, and practitioners from institutions around the world. We look forward to your participation in the conference.

We greatly thank the organizing committee members for taking care of the registration, logistics, and local arrangements. It is due to their hard work that the conference was made possible. We are really grateful to the co-sponsoring societies including IEEE and Computer Society of India. We would also like to express our sincere thanks to all those who contributed to the success of WICT-2012 but whose names may not be listed.

General Chairs

Ajith Abraham, Machine Intelligence Research Labs (MIR Labs), USA?
Sabu M. Thampi, Indian Institute of Information Technology and Management - Kerala, India?
Sankar Pal, Indian Statistical Institute, Kolkata, India??

Program Chairs

Emilio Corchado, University of Salamanca, Spain?
Vaclav Snasel, Technical University of Ostrava, Czech Republic

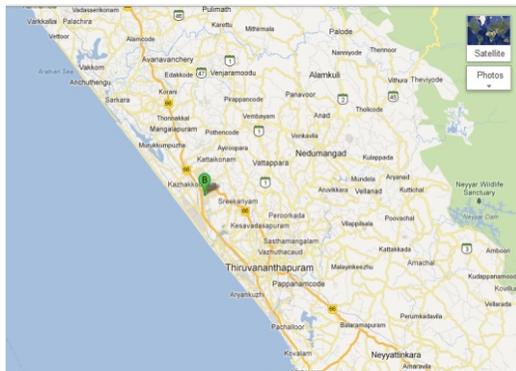
Venue Information

IIITM-K is located amidst the serene and lush green landscape of Technopark Campus in Thiruvananthapuram. The park is on the National Highway (NH 47) to Ernakulam, adjacent to the University of Kerala's Kariavattom campus and is about 8 kms from the Thiruvananthapuram International Airport. Situated on the National Highway, regular bus services link Technopark with commercial centres, research institutions and other urban centers.

WELCOME TO WICT - 2012

Venue Information

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Technopark runs its own bus service, the Technopark Express in a ring route connecting the National highway NH 47, Technopark, and the Kovalam - Kazhakuttam bypass road. The bus service runs between Kerala University Kariavattom campus, through Technopark to Kazhakuttam railway station both in the morning and evening. The Technopark Express bus service also runs continuously between the two ends of the Technopark campus, from Kerala University main gate to Kazhakuttam.

Internet Access

There will be limited wireless internet access available at the conference rooms. This service is supplied free of charge by the Conference for its participants during the time of the conference. Please be considerate of your colleagues and limit your time spent online. There are no guarantees of speed and connectivity. Hardware connections and computers are not provided. If your laptop does not have wireless capability, you will need to access the internet through other means on your own.

WICT2012 Registration

The WICT2012 Registration area is located on the THIRD FLOOR of the IIITM-K. Pre-registered participants must pick up their badges and conference materials in this area. On-site registration for the Conference (subject to availability)/Tutorials is located here as well.

WICT2012 Information Desk

Conference information, publications, CDs will be available at the Registration Desk. The desk is staffed by Local Arrangements Members and Student Volunteers who can answer your WICT2012 questions and assist with special needs.

First Aid/Emergency

Your safety is our primary concern. In case of an emergency, please contact the conference Registration Desk immediately for assistance. There is also a First Aid office located in the ground floor of the main building.

Lost & Found

Please turn all lost and found items in to the Registration Desk

Name Badges

Your WICT2012 name badge serves as your admission pass to conference sessions and events. Please wear your name badge at all times while inside the conference venue. Conference organisers reserve the right to deny admission to any persons not wearing the WICT2012 name badge.

Cell Phone Courtesy

Please be considerate in your cell phone use. WICT2012 requests that all cellular phones, pagers, and other equipment with audible alarms of any kind be turned off in all sessions as a courtesy to the presenters and to the attendees.

Smoking Policy

WICT2012 is smoke-free and the meeting centre is a non-smoking facility.

Smoking Policy

Electricity in India is 240 Volts, alternating at 50 cycles per second. If you are traveling from outside India, you will require a voltage converter if you are carrying a device that does not accept 240 Volts at 50 Hertz. WICT2012 does not provide power converters, extension cords, power strips or other electric accessories. However, the staff at the Registration Desk may be able to assist with some needs.

IMPORTANT NOTES

Most Presentations are scheduled for a maximum time of 15-20 minutes, including Q&A. Presentations can only be in electronic Power Point formats. Files should be Microsoft Powerpoint 2003 compatible.

There will be a laptop and an LCD available for all presenters in the conference rooms. Upload all presentations one hour prior to their presentations at the laptop provided in the conference hall where your session is scheduled. Please have your presentation file named using session-Id and Paper-Id (xx-xxxxx). You may bring your file on a CD or a USB flash stick.

Program at Glance

October 30, 2012

08:30 - 17:00	Registration
08:40 - 09:00	Opening Ceremony
09:00 - 09:45	Plenary Talk 1 – Dr. Mohamed Chawki, International Association of Cybercrime Prevention, France Arab Spring and Social Networks: An Egyptian Case Study
09:45 - 10:30	Plenary Talk 2: Dr. Marimuthu Palaniswami, The University of Melbourne Australia Image Texture Classification: From Spatial Domain to Special-Frequency Domai Creating a sustainable smart city through internet of Things and CI tools
10:30 - 11:00	Tea Break /Poster Sessions
11:00 – 13:00	Parallel Sessions
13:00 - 14:00	Lunch Break
14:00 – 16:30	Parallel Sessions
16:30 - 17:00	Tea Break /Poster Sessions

October 31, 2012

08:30 - 17:00	Registration
09:00 - 09:45	Plenary Talk 3: Magda El Zarki, University of California, Irvine, USA Online Game Systems - A Networking Perspective?
09:45 - 10:30	Plenary Talk 4: Dr. Sivaramakrishnan Senthatty, Tata Consultancy Services, India IPv6 - Why do we need it?
10:30 - 11:00	Tea Break /Poster Sessions
11:00 – 13:00	Parallel Sessions
13:00 - 13.45	Lunch Break
13:45 - 14.30	Talk 5 : Image Texture Classification: From Spatial Domain to Special-Frequency Domai Dr. S. Ramakrishnan, Mahalingam College of Engineering & Technology, India
14:30 – 16:30	Parallel Sessions
16:30 – 17:00	Tea Break /Poster Sessions
17:15 – 18:30	Cultural Event
18:45 – 19:15	Gala Dinner

October 31, 2012, 5PM - Cultural Event IITM-K Arts & Sports Club



November 1, 2012

08:30 - 12:00	Registration
09:00 - 12:30	Parallel Sessions
12:30 – 12:45	Closing Ceremony
12:45 - 13:30	Lunch Break
10:50 - 11:00	Tea Break

November 2, 2012

Local Tourism

Plenary Talks

Talk 1 : Arab Spring and Social Networks: An Egyptian Case Study

Dr. Mohamed Chawki, International Association of Cybercrime Prevention - Paris, France

Abstract: In light of the Arab Spring revolutions of early 2011, Egyptians have managed, to topple a dictatorship that ruled the country for 30 years. One of the most interesting aspects of the revolution is that ICTs played a very important role. During the first week of the revolution, social networks became the primary arm for the protesters to spread the word about what was happening in Egypt. This presentation will look closely at the extent to which Egyptians used social media networks as tools for organizing and generating awareness of political mobilization in the revolution that took place in Egypt in January and February 2011.

Talk 2 : Image Texture Classification: From Spatial Domain to Special-Frequency Domain Creating a sustainable smart city through internet of Things and AI tools

Dr. Marimuthu Palaniswami, The University of Melbourne, Australia

Abstract: By 2050, 70% of the world's population - over 6 billion people - is expected to live in cities and suburbia. To survive as platforms that enable economic, social and environmental well-being, a city needs to be smart. A smart city is aware, interactive and efficient with respect to its services. It is built on ubiquitous sensing capabilities that reach across numerous areas of modern living, offering the ability to measure and understand the condition of the urban environment. This is technologically predicated on the emergent Internet of Things (IoT) - a radical evolution of the current Internet into a network of interconnected 'objects' that not only harvests information from the environment (sensing) and interacts with the physical world (actuation/command/control), but also uses existing Internet standards to provide services for information transfer, analytics, applications and communications. The evolution of the next generation mobile system depends on the creativity of the users in designing new applications. IoT is an ideal emerging technology to influence this domain by providing new evolving data and the required computational resources for creating revolutionary apps. This emerging area will deliver smart new ways of urban monitoring using ubiquitous sensing and data analysis for city management and sustainability by developing a common operating picture for city management. Gartner Inc., in its 2011 report on emerging technologies, has projected IoT to peak in the next 10 years making the world smarter in terms of maximizing wisdom from the information available through ubiquitous (anytime, anywhere, anything) sensing. IoT cuts across many faculties including engineering (sensing, networking, web services, transportation, critical infrastructure, visualization), land and environment (urban monitoring), architecture, building and planning (urban landscapes and design), law (legal aspects), social and political science (privacy and ethics), and economics (cost issues). As a result, large multinational consultancy firms have played a major role in the development of this area considering the market potential for this interdisciplinary field. The new solutions are bound to create more space for innovation and revenue that will in turn influence the growth of this niche area. The talk focuses on creating a cyber ecosystem for creating a common operating picture used in city management

Talk 3 : Online Game Systems - A Networking Perspective

Dr. Magda El Zarki, University of California, Irvine, USA

Abstract: This talk covers the concepts underlying networked games (NGs) and networked virtual environments (NVEs), from their definition, to distributed systems, to networking fundamentals, quality of experience and game design needs.

- the challenges of networked games
- the origins of networked games technology
- communications architectures
- managing dynamic shared state and game playability
- systems design – client server vs peer to peer
- resource management for scalability and performance

Talk 4 : IPv6 – Why do we need it?

Dr. Sivaramkrishnan Senthathy, Tata Consultancy Services, India

Abstract: Internet Protocol version 6 (IPv6) is the next-generation Internet Protocol designated to be the successor to IPv4. The need for IPv6 has been building for a while now and basically arises due to the inherent limitations of IPv4. We assume that IPv6 will be deployed together with current IPv4 networks, so that the network engineering team will have to consider both the protocols. IPv6 is getting more attention within the networking industry. Where only a few years ago there was widespread doubt as to whether IPv6 would ever be adopted, the meetings of network operators forums such as the North American Network Operators' Group (NANOG), the Asia Pacific Regional Internet Conference on Operational Technologies (APRICOT) and Réseaux IP Européens (RIPE) now devote substantial portions of their agendas to discussions of how to best implement the new protocol.

1. The session begins by examining the current key drivers for IPv6, which includes
 - An explosion of Internet Applications, Games, Information Sources and Business transaction
 - Movement of traditional services such as voice and video from legacy circuit-based infrastructures to IP networks
 - Expanding economies in populous countries
2. An overview of IPv6 deployment status around the world
3. How to create a successful IPv6 Implementation Plan and Design
4. Understanding the Inventory details of the Enterprise network
5. The three different approaches to IPv6 Implementation
 - Core to Edge, Edge to Core, IPv6 Islands
6. Design and Interoperability testing
7. Different type of Implementation Mechanisms which includes
 - Dual Stack, Manually Configured Tunnels, Automatic Tunnels, Translators
8. Cost and Risk Analysis

Talk 5 : Image Texture Classification: From Spatial Domain to Special-Frequency Domai

Dr. S. Ramakrishnan, Mahalingam College of Engineering & Technology, India

Over a past few decades research on "image texture classification" is gaining momentum and found application in many fields such as industrial and biomedical surface inspection, ground classification and segmentation of satellite or aerial imagery, segmentation of textured regions in document analysis, and content-based access to image databases, crop image analysis, food processing, etc. Over the years, numerous methods have been proposed for the classification of image textures. These methods are broadly divided into two categories, namely feature-based methods and model based methods. These two methods can be employed either in spatial domain or in frequency domain or in spatial-frequency domain. This plenary talk will include the following issues:

What, why and where are Image Textures? Overview of Image Texture Classification Spatial Domain Methods Frequency Domain Methods
Journey from Spatial to Spatial-Frequency Methods Spatial-Frequency Methods

Parallel Sessions

	Time	Session ID	Sessio Title	Hall
30th October 2012	11:00 -13:00	S1	Communication and Networking - I	301
	11:00-13:00	S2	Data Management and Mining - I	201
	14:00 - 16:30	S3	Nature Inspired Optimization	210
	14:00 - 16:30	S4	Advanced Communication Networks Technologies - Architecture, Applications and Services	219
	14:00 - 16:30	S5	Novel ICT Approaches & Applications	209
	14:00 - 16:30	S6	Bioinformatics	110
31st October 2012	11:00-13:00	S7	Communication & Networking II	301
	11:00 -13:00	S8	Novel ICT Approaches & Applications II	201
	14:00 - 16:30	S9	Artificial Intelligence	210
	14:00 - 16:30	S10	Computer Network Security	219
	14:00 - 16:30	S11	Design Issues in Wireless Sensor Networks	209
	14:00 -16:30	S12	Data Management & Mining-II	110
1st November 2012	09:00-11:00	S13	Communication & Networking III	219
	09:00-11:00	S14	Web and E-Services I	210
	09:00-11:00	S15	Special Session on Image Processing and Imaging Technologies	110
	11:00-12:30	S16	Advances in Document Image Analysis (ADIA)	210
	11:00-12:30	S17	Web and E-Services II	219
	11:00-12:30	S18	Special Session on Image Processing and Imaging Technologies	110

10:30 - 11:00 & 16:30 – 17:00

Poster Presentations (During Tea Breaks on the first two days)

October 30, 2012 & October 31, 2012

S1: Communication and Networking - I

Date: 30th October 2012; Time: 11:00 -13:00			Session Chair: Dr. Asoke Nath, St. Xavier's College(Autonomous), Kolkata, India		
35	<i>Simulation Study of Comparative Performance of AODV, OLSR, FSR & LAR, routing Protocols in MANET in Large Scale Scenarios</i>	Praveen Goyal			
45	<i>Modeling Two Way Concurrent Buffer System using Timed Automata in UPPAAL</i>	Sanjay Singh, Rohit Mishra and Md Zeeshaan			
70	<i>On Modeling the Multirate sensor array</i>	Neenu P A			
335	<i>Bit Level Encryption Standard (BLES) : Version-II</i>	Gaurav Bhadra, Tanya Bala, Samik Banik, Joyshree Nath and Asoke Nath			
265	<i>Modern Encryption Standard(MES) version-I: An Advanced Cryptographic Method</i>	Somdip Dey and Asoke Nath			
253	<i>Design and Performance Analysis of 1 bit Full Adder using GDI Technique in Nanometer Era</i>	Jayram Shrivasa, Shyam Akashe and Nitesh Tiwari			

S2: Data Management and Mining - I

Date: 30th October 2012; Time: 11:00-13:00			Session Chair: Dr. Dharavath Ramesh, Indian School of Mines, India		
73	<i>A Secure Image Steganography Technique Using Integer Wavelet Transform</i>	Hemalatha S, U. Dinesh Acharya, Renuka A and Priya R Kamath			
108	<i>Fuzzy Association Rule Mining based Frequent Pattern Extraction from Uncertain Data</i>	Dharmen a Singh Rajput, Ramjeevan Singh Thakur and Ghanshyam Singh Thakur			
126	<i>Design of a Transaction Recovery Instance Based on Bi-directional Ring Election Algorithm for Crashed Coordinator in Distributed Database Systems</i>	Dharavath Ramesh and Chiranjeev Kumar			
127	<i>A Grid Clustering Algorithm Using Cluster Boundaries</i>	Damodar Edla and Prasanta K. Jana			
149	<i>Dual tree wavelet transform based watershed algorithm for image segmentation in hand radiographs of arthritis patients and classification using BPN neural network</i>	Sneha Latha and Anburajan M			
152	<i>An approach to personalize the web using XML based ontologies</i>	Vigneshwari S			
112	<i>Performance analysis of MapReduce Programs on Hadoop cluster</i>	Mahesh Maurya and Sunita Mahajan			
323	<i>A Comparative study for Image Enhancement using soft computing models</i>	Md Iqbal Quraishi, J Paul Choudhury, Mallika De, Goutam Das and Anirban Bhattacharjee			
375	<i>Application of Support Vector Machine in Continuous Authentication</i>	Tribhuvanesh Orekondy, Soumya Gosukonda and K. G. Srinivasa			
197	<i>Detection of DoS attack Time interval Sequences on Network Traffic</i>	Alpa Reshamwala and Sunita Mahajan			
355	<i>Greedy Polynomial Neural Network for Classification Task in Data Mining</i>	Bijan Misra and Rasmita Dash			

S3: Nature Inspired Optimization

Date: 30th October 2012; Time: 14:00 - 16:30 Session Chair: Dr. Alpa Reshamwala, SVKM's NMIMS MPSTME, India		
116	<i>Recognition of the State of Mind using Hamming Swarm Net</i>	Ramakrushna Swain, Bijan Bihari Misra and Naren a Kumar Kamila
272	<i>NSBBO for Gain-Impedance Optimization of Yagi-Uda Antenna Design</i>	Satvir Singh, Etika Mittal and Gagan Sachdeva
277	<i>A MetaHeuristic Approach For Optimal Reliability Assessment of Software Systems Incorporating Redundancy</i>	Madhu Nalluri and Diptendu Sinha Roy
285	<i>Evolutionary Performance of BBO and PSO Algorithms for Yagi-Uda Antenna Design Optimization</i>	Satvir Singh, Shelja Tayal and Gagan Sachdeva
316	<i>Optimal Linear Phase FIR High Pass Filter Design using PSO/CFIWA-WM</i>	Suman Saha, Nishant Kumar, Rajib Kar, Durbadal Mandal and Saktiprasad Ghoshal
318	<i>Optimal Digital Stable IIR Band Stop Filter Optimization using Crazyness based Particle Swarm Optimization Technique</i>	Suman Saha, Joydeep Rakshit, Rajib Kar, Durbadal Mandal and Saktiprasad Ghoshal
354	<i>Competency mapping in academic environment: A multi objective approach</i>	Bijan Misra, Sushri Rout and Sasmita Samanta
367	<i>Automatic Image Annotation via Incorporating Naive Bayes with Particle Swarm Optimization</i>	Mohamed Sami, Nashwa El Bendary and Aboul Ella Hassanien
371	<i>Finding Consensus by Sequence Evolution: An application of Differential Evolution</i>	Jyotshna Dongardive and Siby Abraham
289	<i>Evaluation of Normalization methods on Neuro-Genetic models for Stock Index Forecasting</i>	Sarat Chandra Nayak, Bijan Bihari Misra and Himanshu Sekhar Behera

S4: Advanced Communication Networks Technologies - Architecture, Applications and Services

Date: 30th October 2012; Time: 14:00 - 16:30 Session Chair: Dr. Hema Singh, CSIR-National Aerospace Laboratories, Bangalore		
95	<i>FPGA Implementation of Optimum Distributed Sensing for Cognitive Radio Network</i>	Sesham Srinu
202	<i>Implementation of High Performance and Low Leakage Half Subtractor Circuit using AVL Technique</i>	Shyam Akashe, Gunakesh Sharma, Vinod Rajak and Richa Pandey
218	<i>Modelling of High Speed Low Power Decoder in Nanometer Era</i>	Shaym Akashe, Rajeev Sharma, Nitesh Tiwari and Richa Pandey
242	<i>A Cognitive Based Context-aware Personalized Medical Assistance, A Mobile Application</i>	Kiran Kumari Patil and Vijaya Kumar B P
259	<i>Power analysis of 3T DRAM Cell using FinFET at 45nm Process Technology</i>	Ambrish Mudgal, Shyam Akashe and Shyam Babu Singh
301	<i>Performance Analysis of Routing Protocols Under Varying Degree of Misbehaviour in MANET</i>	Sumer Singh, Chakshu Goyal and Gagan Sachdeva
313	<i>A Cryptographic Approach to Prevent a Spoof Attack for Secure Information Retrieval in a Biometric System</i>	Ravi Hosur, Sanjeevakumar Hatture and Rashmi Karchi
380	<i>Delay Modelling of On-Chip RC Global VLSI Interconnect for Step Input</i>	Vikas Maheshwari, Samir Jha, Rahul Bhadauria, Rajib Kar, Durbadal Mandal and Anup Kumar Bhattacharjee
383	<i>Subspace Projection Based Analysis of Speech Under Stressed Condition</i>	Sumitra Shukla, Samaren Dandapat and S. R. Mahadeva Prasanna
161	<i>A Comparative Study between Discrete Wavelet Transform and Linear Predictive Coding</i>	Ambika Vijayakumar and Radha V
332	<i>Achieving Energy Efficiency by Self-adjusting Sensing Range and Positioning in Wireless Sensor Networks</i>	B. B. Misra, A. K. Nayak and S. C. Rai

S5: Novel ICT Approaches & Applications

Date: 30th October 2012; Time: 14:00 - 16:30		Session Chair: Dr. Satyananda Champati Rai, Silicon Institute of Technology, India
16	<i>Estimation of high speed Encoder with MTCMOS Technique in 45 Nanometer Era</i>	Shyam Akashe, Vinod Rajak, Gunakesh Sharma and Richa Pandey
17	<i>Impact of Technology Scaling and Supply Voltage Variation on Half Adder Design in Nanometer Era</i>	Shyam Akashe, Nitesh Tiwari, Rajeev Sharma and Jayram Shrivastava
18	<i>Analysis of Power in 3T DRAM and 4T DRAM Cell design For Different Technology</i>	Shyam Akashe, Ambrish Mudagil and Shyam Babu Singh
65	<i>VIMPY: A Yapper for the Visually Impaired</i>	Charu Chaudhari, Amruta Rodrigues, Avanish Pathak and Amiya Tripathy
80	<i>Therapeutic Video Tagging System Model</i>	Hima Bindu Maringanti, Krishna Asawa, Naman Agrawal and Radhika Agrawal
154	<i>Drought Information Mining from Satellite Images for Improved Climate Change Mitigation</i>	Getachew Berhan Demisse
158	<i>Fusion of 4-Slap Fingerprint Images with Their Qualities for Human Recognition</i>	Kamlesh Tiwari, Aditya Nigam, Nishant Singh and Phalguni Gupta
172	<i>A Cascaded High Step-Up DC/DC Converter for Micro-Grid</i>	Ryali Kameswara Rao, Bandaru Satya Vara Prasad and k.bapayya naidu
192	<i>Autonomous computing architecture for Business Applications</i>	Devasia Kurian and Pethuru Raj Chelliah
296	<i>A comprehensive Study on Digital Divide in School, College and Adult Education from Indian Perspective</i>	I. Maria Joseph and Asoke Nath

S6: Bioinformatics

Date: 30th October 2012; Time: 14:00 - 16:30		Session Chair: Dr. Bijan Misra, Silicon Institute of Technology, Bhubaneswar, India
47	<i>Hybrid clustering method for optic disc segmentation and feature extraction in retinal images</i>	Jude Hemanth and Anitha J
121	<i>A new algorithm for Quantitative deciphering of pre-mature MIRNAs using some Statistical Parameters</i>	Joyshree Nath and Asoke Nath
138	<i>Tumor Demarcation by VQ based clustering and augmentation with KMCG and KFCG codebook generation algorithms</i>	H. B. Kekre and Pravin Shrinath
144	<i>DWT-DCT-SVD Based Intravascular Ultrasound Video Watermarking</i>	Nilanjan Dey, Anamitra Bardhan Roy, Poulami Das, Achintya Das and Sheli Sinha Chowdhury
180	<i>Lifting Wavelet Transformation Based Blind Watermarking Technique of Photoplethysmographic Signals in Wireless Telecardiology</i>	Nilanjan Dey, Shouvik Biswas, Poulami Das, Achintya Das and Sheli Sinha Chowdhury
232	<i>Interactions among MARM binding factors</i>	Bishwajit Das and Durjoy Majumder
248	<i>Compressed Sensing for Multi-lead Electrocardiogram Signals</i>	L. N. Sharma and S. Dandapat
300	<i>Analysis of Graph Centrality Measures for Identifying Ankyrin Repeats</i>	Broto Chakrabarty and Nita Parekh
378	<i>Rotated Object Recognition-based on Hu Moment Invariants using Artificial Neural System</i>	Amitabh Wahi, C Palanisamy and S. Sundaramurthy

S7: Communication & Networking II

Date: 31st October 2012; Time: 11:00-13:00		Session
Chair: Dr. Narahari Sastry, Chaitanya Bharathi Institute Of Technology Hyderabad		
120	<i>PN, Codes Vs Chaotic sequences:BER Comparison Perspective</i>	Sangeetha Manoharan and Vidhyacharan Bhaskar
123	<i>Outage Probability Analysis in multiuser MIMO Systems under Weibull Fading Environment</i>	Sangeetha Manoharan, Vidhyacharan Bhaskar and James Albert Pushparaj,
124	<i>Spectrum Efficiency Analysis of Adaptive Transmission with Selection Diversity in Rayleigh Fading Channels with Branch Correlation Impairments</i>	Subhashini Janarthanan and Vidhyacharan Bhaskar,
129	<i>Trust based Dynamic Distributed IP Addressing protocol for MANETs using Fuzzy Rule Sets</i>	Reshmi Tr and Murugan K,
157	<i>Improved Decoder Design for LDPC Codes based on selective node processing</i>	Sachin Khati, pooja bisht and subhash pujari,
312	<i>Capacity Analysis of Highly Correlated Rayleigh Fading Channels for Maximal Ratio Combining Diversity</i>	Subhashini Janarthanan and Vidhyacharan Bhaskar,
57	<i>Differentiated QoS with Modified C/I Based Scheduling Algorithm</i>	Sanjay Singh and A Divya
206	<i>Performance Analysis of Unified Power Saving Mechanism for IEEE 802.16m Networks</i>	Rajesh Anbazhagan and Nakkeeran Rangaswamy

S8: Novel ICT Approaches & Applications II

Date: 31st October 2012; Time: 11:00 -13:00		
Session Chair: Dr. Anindita Paul, IIM Kozhikode, India		
199	<i>Multi-Camera Based Surveillance System</i>	Reena Behera, Pallavi Kharade, Suresh Yerva, Pranali Dhane, Ankita Jain and Krishnan Kutty
215	<i>Active Cancellation of Probing in Phased Array using Modified Improved LMS Algorithm</i>	Hema Singh and Rakesh Mohan Jha
315	<i>Curve fitting and Regression line method Based Seasonal Short Term Load Forecasting</i>	M. Babita Jain, Manoj Kumar Nigam and Prem Chand Tiwari
49	<i>Case study on KVM and Xen</i>	Sneha Kolhe and Sudhir Dhage
71	<i>An Analysis of Cloud Computing Security Issues</i>	Akhil Behl and Kanika Behl
241	<i>Cloud Security Management Suite - Security as a Service</i>	Deepa Krishnan and Madhumita Chatterjee

S9: Artificial Intelligence

Date: 31st October 2012; Time: 14:00 - 16:30		Session Chair:
Dr. Amitabh Wahi, Bannari Amman Institute of Technology, Sathyamangalam, Tamilnadu		
143	<i>An Efficient Colouring of Graphs Using Less Number of Colours</i>	Gend Lal Prajapati, Amit Mittal and Neha Bhardwaj
150	<i>On-line Handwritten Character Recognition System for Kannada using Principal Component Analysis Approach</i>	Keerthi Prasad, Imran Khan, Naveen R Chanukotimath and Firoz Khan
183	<i>Multi-Robot Cooperative Box-pushing Problem Using Multi-objective Particle Swarm Optimization Technique</i>	Arnab Ghosh, Avishek Ghosh, Arkabandhu Chowdhury, Amit Konar and Ramadoss Janarthanan
200	<i>Performance Analysis of Hybrid Feature Extraction Technique for Recognizing English Handwritten Characters</i>	Pradeep Jayabala
216	<i>Reconfigurable Cognitive Networks</i>	Alex James and Raji CR
225	<i>Result Merging Using Modified Bayesian Method for Meta Search Engine</i>	K Srinivas, V Valli Kumari and Aliseri Govardhan

S10: Computer Network Security

Date: 31st October 2012; Time: 14:00 - 16:30		
Session Chair: Dr. Tony Thomas, IITM-K		
137	<i>Gesture based sensor encryption</i>	Joy Bose and Tasleem Arif
163	<i>MAWSN - Manifold Authentication in Wireless Sensor Network</i>	Ambika Nagaraj,
201	<i>CHAKRA: A New Approach for Symmetric Key Encryption</i>	P Ramesh Kumar, S S Dhenkaran, K L Sailaja and P Sai Kishore,
226	<i>SD-C1BBR: SD-Count-1-Byte-Bit Randomization: A New Advanced Cryptographic Randomization Technique</i>	Somdip Dey
303	<i>BOKHARI: A New Software Oriented Stream Cipher. A proposal</i>	M. Ubaidullah Bokhari and Faheem Masoodi
314	<i>An Improved Wavelet Domain Image Watermarking with Varying Embedding Strength</i>	M S Keerthi, Nair S Preethi and M Jayamohan
44	<i>Erroneous State Detection in Piecewise FIFO System</i>	Sanjay Singh, Sharath Kumar A and Vishesh H V

S11:- Design Issues in Wireless Sensor Networks

Date: 31st October 2012; Time: 14:00 - 16:30		Session Chair:
Dr. Sanjay Singh, Manipal Institute of Technology, Manipal, India		
240	<i>Securing Wireless Sensor Network based Solutions</i>	Rajarithnam Nallusamy, Vijayaraghavan Varadharajan and Sunil Kumar Vuppala
284	<i>Characterization of Reliability in WSN</i>	Dhanashri Wategaonkar and Vivek Deshpande
336	<i>An Energy Efficient Wireless Sensor Network using Spatial Correlation Based Iterative Node Selection Algorithm with Routing Protocols for Multiple Sensor Nodes</i>	P.T. Kalaivaani
363	<i>Congestion Control in Wireless Sensor Networks by using Differed Reporting Rate</i>	Vivek Deshpande, Pratibha Chavan, Vijay Wadhai and Jagdish Helonde
366	<i>Achieving reliability in Wireless Sensor Networks by Differed Reporting Rate Control</i>	Vivek Deshpande Deshpande, Archana Dhoke, Vijay Wadhai and Jagdish Helolde
368	<i>Handling Fairness in Wireless Sensor Network</i>	Meera Thorat and Vivek Deshpande
369	<i>Analysing Parameters Of Loss Recovery</i>	Shilpa Badarayani and Vivek Deshpande

S12: Data Management & Mining-II

Date: 31st October 2012; Time: 14:00 -16:30		Session Chair: Dr. Manjunath Aradhya, SJCE, Mysore, India
229	<i>Satellite Cloud Image Processing And Information Retrieval System</i>	Mahendra Kumar Gurve and Jyoti Sarup
261	<i>Comparison between analytic and Numerical solution of linear Black-Scholes equation governing option pricing: Using Bank Nifty</i>	Madhu Sudan Kumar, Shom Prasad Das and Motahar RezaA
321	<i>Application Of Hippocratic Principles For Privacy Preservation In Social Network</i>	Rajnishkaur Bedi, Nitinkumar Gove and Vijay Wadhai
299	<i>Path-Planning of Mobile Agent using Q-Learning and Real-Time Communication in an Unfavourable Situation</i>	Dhrubojyoti Banerjee, Pratyusha Rakshit, Amit Konar and Ramadoss Janarthanan
356	<i>Performance Evaluation of Ad hoc Network Under Black hole Attack</i>	Rakesh Sahu and Narendra Chaudhari

S13: Communication & Networking III

Date: 1st November 2012; Time: 09:00-11:00		Session Chair: Dr. S. Ramakrishnan, Mahalingam College of Engineering & Technology, India
281	<i>Cloud computing security schemes:- TGOS and TMS</i>	Aaradhana Deshmukh, Alben Mihovska and Ramjee Prasad
255	<i>Maximizing Range of Signal Strength by Home-made Wi-Fi Booster Antenna</i>	Vrushali Kadu and Datta Adane
266	<i>Traffic Prioritization in MPLS Enabled OSPF Network</i>	Anupkumar Bongale, Nithin N and Swarna Jyothi
267	<i>Performance Analysis of IEEE 802.11e over WMNs</i>	Tritva J Kiran Pinjarla and Kavitha Athota
171	<i>Efficient Route Discovery using Stable Connected Dominating Set for Mobile Ad Hoc Networks</i>	Revathi S. and T.R. Rangaswamy
279	<i>Performance of AODV, DSR and DSDV Protocols under varying node movement</i>	Veena Anand and Suresh Chandra Gupta
293	<i>VLDD: Vindictive Link detection in Distance Vector Routing for ad hoc network</i>	Kutala Sreenivasulu, E V Prasad and A Subramanyam
63	<i>Efficacy of 16-APSK Modulation for Multiband Pulsed-OFDM UWB-Communication Systems</i>	Manimegalai C.T.
118	<i>Performance of Comparison Metrics on M-QAM OFDM systems with High Power Amplifier</i>	Deepa T and Kumar R
227	<i>Staggered Clustering Protocol: SCP an Efficient Clustering Approach for Wireless Sensor Network</i>	Asis Kumar Tripathy and Suchismita Chinara

S14: Web and E-Services I

Date: 1st November 2012; Time: 09:00-11:00		Session Chair: Dr. Tony Thomas, IIITM-K
51	<i>Semantic Based Image Retrieval of an Image Crawler Using MultiAgent Model By Searching and Filtering Replicated Web Images.</i>	Shashi Shekhar
58	<i>An Experience with Measuring Multi-User Online Task Performance</i>	Anindita Paul, Borchuluun Yadamsuren and Sanda Erdelez
79	<i>Defense Response of Search Engine Websites to Non Cooperating Crawlers</i>	Rishabh Dev Chandna, Prabhakar Chaubey and Suresh Chandra Gupta
94	<i>XBMRSA: A New XML Encryption Algorithm</i>	Nithin N and Anupkumar Bongale
128	<i>Spatio Concept Relation Accompanied Interface to Bridge Semantic Gap of Video Search and Retrieval</i>	Lochandaka Ranathunga, Nor Aniza Abdullah and Roziati Zainuddin
145	<i>The e-Government Interoperability through Enterprise Architecture in Indian Perspective</i>	Anu Paul and Varghese Paul
176	<i>Survey of QoS Based Web Service Discovery</i>	Rashmi Phalnikar and Pradnya Khutade
208	<i>Real-time Mobile Learning using Mobile Live Video Streaming</i>	Moumita Majumder and Debarshita Biswas

S15: Special Session on Image Processing and Imaging Technologies (WICT-IPIT 2012)

Date: 1st November 2012; Time: 09:00-11:00		Session Chair: Dr. Alex Pappachan James, IIITM-K
151	<i>Reconstruction of PET Brain Image using Conjugate Gradient Algorithm</i>	Thiyagarajan Arunprasath, Murugan Pallikonda Rajasekaran, Subramaniam Kannan and Venkatesan Adithiyaa
159	<i>First Order Neighborhood Decision Based Median Filter</i>	Aswini Kumar Samantaray and Priyadarshi Kanungo
164	<i>Statistical analysis of surface roughness measurements using Laser Speckle images</i>	T Jeyapoovan, M Murugan and B Clemend Bovas
207	<i>An Effective Direction based Filter for the Restoration of Images Corrupted by Random Valued Impulse Noise</i>	Justin Varghese, Saudia Subash, Mohamed Samiulla Khan, Mohammed Ghouse, Omer Bin Hussain and Lotus R
251	<i>Image Compression using Multilayer Feed Forward Artificial Neural Network with Conjugate Gradient</i>	Shantikumar Yumnam, Pushpa Bishnulatpam and Manglem Khumanthem

S16: Advances in Document Image Analysis (ADIA)

Date: 1st November 2012; Time: 11:00-12:30		Session Chair: Dr. Siby Abraham, University of Mumbai
222	<i>Isolated Telengu Palm leaf character recognition using random transform - A novel approach</i>	Panyam Narahari Sastry and Ramakrishnan Krishnan
286	<i>Handwritten Character Segmentation for Kannada Scripts</i>	Naveena C and V. N. Manjunath Aradhya
290	<i>Character Recognition of Kannada Text in Low Resolution Display Board Images using Zone Wise Statistical Features</i>	Shanmukappa Angadi, Mallikarjun Kodabagi and Markandeshwar Jerabandi
370	<i>Discrimination of Handwritten and Machine Printed Text in Scanned Document Images based on Rough Set Theory</i>	Surabhi Narayan and Sahana D. Gowda
185	<i>Channel estimation and equalization for the time varying OFDM system using Kalman filter</i>	Chukka Sekhar, Dasari Srinivas Rao and Chundru Satvik
210	<i>An Ameliorated Methodology for the Design of Product Data Flow Diagram</i>	Shivanand Handigund and Pushpa C.
263	<i>An Automated Methodology for the Design of Usecase Package Diagram</i>	Shivanand M. Handigund, Kavitha H. B. and Aphoorva A.
31	<i>Segmentation of Breast MRI Using Effective Fuzzy C-Means Method based on Support Vector Machine</i>	Sathya Arumugham

S17: Web and E-Services II

Date: 1st November 2012; Time: 11:00-12:30		Session Chair: Dr. S. Ramakrishnan, Mahalingam College of Engineering & Technology, India
302	<i>Text Watermarking Algorithm Using Structural Approach</i>	Bharati Patil and Nitin Patil
305	<i>Case Study : Affordance of using Multi-HD Technology for Distanced Co-Teaching in Hong Kong Secondary Schools</i>	Boris Chan, Alan Lam and Louis Li
352	<i>A Model for Assessing the Strategic Value of e-Learning Initiatives</i>	Mehdi Asgarkhani
358	<i>Wireless communications for Nomadic and Pervasive Computing: Using of NOMOHi Networks to Unify e-university Educational Platforms.</i>	Juan Jose Martinez Castillo, Karina Aviles, Johnny Martinez, Claret Gonzales and Franklin Arzolay
381	<i>A Quality of Service (QoS) Model and Learner Centric Selection Mechanism for E-Learning Web Resources and Services</i>	Demian Antony D'Mello, Raghavendra Achar and Shruthi M
212	<i>A Novel Methodology for Security and Privacy of Cloud Computing and its use in e-Governance</i>	Kuntal Mukherjee and G. Sahoo
346	<i>Dynamic Economic Dispatch of Thermal Units by Blended Biogeography Based Optimization</i>	J Jasper and T Aruldoss Albert Victoire

S18: Special Session on Image Processing and Imaging Technologies (WICT-IPIT 2012)

Date: 1st November 2012; Time: 11:00-12:30		Session Chair: Dr. Sabu M Thampi, IIITM-K
251	<i>Image Compression using Multilayer Feed Forward Artificial Neural Network with Conjugate Gradient</i>	Shantikumar Yumnam, Pushpa Bishnulatpam and Manglem Khumanthem
270	<i>Performance Analysis of OFDMA receiver with Common Carrier Frequency Offset (CCFO)</i>	Sabitha Gauni and Kumar R
351	<i>Evaluation of different Stages of Alzheimer's Disease using Unsupervised Clustering techniques and Voxel Based Morphometry</i>	Tinu Varghese, Sheela Kumari, Mathuranath P S and Albert Singh
373	<i>Automatic Grading of Macular Degeneration from Color Fundus Images</i>	Jyoti Prakash Medhi, Malaya Kumar Nath and Samarendra Dandapat
377	<i>Curvelet based Image Fusion</i>	Monika Verma, Vandana D Kaushik and Venkateshwar Rao

List of Poster Paper Presentations (During Tea breaks on the first two days)

October 30, 2012 - 10:30 - 11:00

October 31, 2012 - 16:30 17:00

	<i>Various Steganalytic Techniques Comparison for LSB Embedding</i>	*Yambem Jina Chanu, Kh. Manglem Singh and Themrichon Tuithung
	<i>Dual image watermarking scheme based on Singular value decomposition</i>	* Bishnulatpam Pushpa Devi, Kh Manglem Singh and Sudipta Roy
	<i>Radar Cross Section of Phased Array with Parallel Feed Network</i>	* Hema Singh
	<i>System Architecture for Device and Content Independent Application including 3D Imaging and Virtual Reality Implemented in Collaborative Language Learning Game</i>	* Razia Sultana, Andreas Christ, Patrick Meyrueis
89	<i>A View on Ultrasonogram Denoising Techniques</i>	Haseena K.A and Sherikh K.K
170	<i>A Novel Forward Vehicle Collision Avoidance Methodology through Integration of Information and Communication Technologies at Intersections</i>	Vivek Singhal and Sukhvir Jain
217	<i>Personalized Web Information Retrieval Based on Varying Health Parameters Related to Diabetes</i>	Asangi De Silva Jayatilaka Jayatilaka, S.M.A.K.D. Arunatileka Arunatileka and R.G. Premaratne Premaratne
219	<i>Review of Community Detection Approaches in Social Networks using Bayesian Method and Graph Theory</i>	Harish Kumar Shakya and Bhaskar Biswas
288	<i>A comparative study between Ridgelet PCA and PCA using different distance measure technique for 2D shape recognition and retrieval</i>	Muzameel Ahmed and V. N. Manjunath Aradhya

344	<i>A Comparative Study on Image Edge Enhancement for Synthetic Aperture Radar (SAR) Images</i>	Md.Iqbal Quraishi, Krishna Dhal and Goutam Das
268	<i>Selective Encryption for Secure Real Time Remote Video Monitoring</i>	Deepti Lawand, Madhumitta Chatterjee and Suhas Lawand
	<i>Parallel scale space construction using SIMD hypercube</i>	Anukul Panda, Hunny Mehrotra and Banshidhar Majhi
53	<i>Simulated Annealing based algorithm for multi objective fuzzy time-cost optimization problem</i>	Manal Osman Suliman
237	<i>OCRG: A Proposed Recommender for Mitigating New User Problem</i>	Harita Mehta, Punam Bedi and Veer Sain Dixit
77	<i>Towards the Improvement of Cuckoo Search Algorithm</i>	Hetal Soneji and Rajesh Sanghvi
271	<i>Development of Advanced Contrast Enhancement Technique for Mam mographic Images</i>	Arpita Das and Mahua Bhattacharya
239	<i>Human Body Tracking System Based on DWT and Mean-Shift Algorithm on ARM-Linux Platform</i>	Ganesh Rakate
188	<i>An Artificial Bee Colony algorithm based Efficient Prediction Model for Stock Market Indices</i>	Minakhi Rout, Babita Majhi, Usha Manasi Mohapatra and Rosalin Mahapatra
166	<i>Simulation and Comparative Analysis of Energy Conservation Performance Metric for ERAODV, AODV and DSDV Routing Protocols in MANET</i>	Bhabani Sankar Gouda, Lakshmi Narayana and Arkaprava Bhaduri Mandal
252	<i>IPv4 and IPv6 Performance Comparison for Simulated DNS and VoIP Traffic in Windows 2007 and Windows 2008 Client Server Environment</i>	Shubhangi Kharche and Alka Mahajan
168	<i>A power-aware middleware for location & context aware mobile apps with cloud computing interaction</i>	Rafael P Ž rez-Torres and C Ž sar Torres-Huitzil

40	<i>Cooperative Security Agents for MANET</i>	Vaishali Mohite and Lata Ragha
233	<i>Assessment for Possible Drug Application Delays in MCT Strategy Due to Pathophysiological Constraints of Cancer</i>	Durjoy Majumder
191	<i>Analysis and Evaluation of Cooperative Multi-Point Transmission/Reception and Soft Handover for LTE-Advanced</i>	Rudraksh Shrivastava and Mari Carmen Aguayo Torres
249	<i>Development of Adaptive Channel equalization using DE</i>	Prasanta Khuntia, Benudhar Sahu and Chandra Sekhar Mohanty
78	<i>An Embedded GSM based Real time Multiparameter, Patient Monitoring System and Control-An Implementation for ICU patients</i>	Nitin Jain, Preeti Jain and Trupti Agarkar
328	<i>Privacy Preserving Hierarchical Content Distribution in Multiparty Multilevel DRM</i>	Dheerendra Mishra and Sourav Mukhopadhyay
146	<i>A Novel Approach for Malicious Nodes Detection in Ad-hoc Networks Based on Cellular Learning Automata</i>	Amir Bagheri Aghababa, Amirhosein Fathinavid, Abdolreza Salari and Seyedeh Elaheh Haghayegh Zavareh
243	<i>Construction of University Ontology</i>	Ayesha Ameen, Khaleel Ur Rahman Khan and Padmaja Rani
198	<i>Secure Encryption with Digital Signature Approach for Short Message Service</i>	Neetesh Saxena and Narendra S Chaudhari
10	<i>Towards Realistic Performance Evaluation of Mobile Ad hoc Network</i>	Shailender Gupta, Chirag Kumar, Chander Kumar and Bharat Bhushan
262	<i>Proving Theorems Based on Equivalent Transformation Using Resolution and Factoring</i>	Kiyoshi Akama and Ekawit Nantajeewarawat

384	<i>Hanaa Elshazly, Neveen Ghali, Abeer El Korany and Aboul Ella Hassanien</i>	Rough sets and Genetic Algorithms: A hybrid approach to breast cancer classification
19	<i>Measuring Complexity of Lateral Ventricle from MR Images for Schizophrenia</i>	Damodara Hebbar, Gangadhar Bn and Anand Jatti
174	<i>Software Effort Prediction Using Unsupervised Clustering and Functional Link Artificial Neural Networks</i>	Tirimula Rao Benala and Satchidanda Dehuri
184	<i>Approximate Load Balance based on ID/Locator Split Routing Architecture</i>	Sanqi Zhou, Jia Chen, Hongbin Luo and Hongke Zhang
350	<i>Optimization of OFDM systems resources using multi objective estimation distribution algorithms</i>	Annauth Rajendrasingh and Rughooputh Harry C.S
234	<i>Wireless Smart Badge based on IEEE 802.15.4 LRWPAN</i>	Chitra Javali and Girish Revadigar
275	<i>Voice Enabled Android Application for Vehicular Complaint System Using GPS and GSM-SMS technology</i>	Aditi Mhapsekar, Uma Nagarsekar, Priyanka Kulkarni and Dhananjay Kalbande
278	<i>Design of Compact Reversible Decimal Adder using RPS Gates</i>	Rekha K James, K Poulouse Jacob and Sreela Sasi
186	<i>Cluster Optimization for enhanced web usage mining using fuzzy logic</i>	Nayana Mariya Varghese and Jomina John
347	<i>A Goal based methodology for Web specific Requirements engineering</i>	Shailey Chawla and Sangeeta Srivastava
INV	<i>Robust Video Watermarking Scheme Based on Visual Cryptography</i>	Thounaojam Rupachandra Singh
297	<i>Analysis of Ionospheric Scintillations of GPS and VHF/UHF Signals over Low Latitude Indian Region</i>	Swamy Kct, Sarma A D, Supraja Reddy Ammana and Tarun Kumar Pant
55	<i>Quantitative Analyses and Evaluation of MANET Routing Protocols in Effect of Varying Mobility Model using QualNet Simulator</i>	Dharam Vir Tanwar, S.K Agarwal and Sayad Akthar Imam

135	<i>An Approach to Increase the Wireless Sensor Network Lifetime</i>	Nikhil Marriwala and Priyanka Rathee
236	<i>HIXEn: An integration engine for multi-vocabulary health information using REST & semantic metadata mapping</i>	Saptarshi Purkayastha
205	<i>Analysing of 3D Beamforming in MIMO Radars</i>	Amirsadegh Roshanzamir, Mohammadhossein Roshanzamir and Mohammad Hasan Bastani
76	<i>ÓPhish Mail Guard :Phishing Mail Detection Technique by using Textual and URL analysisÓ</i>	<i>Jayshree Hajgude and Lata Ragha</i>
238	<i>Dyscover - An Orton-Gillingham Approach Inspired Multi-sensory learning application for Dyslexic children</i>	Saptarshi Purkayastha, Namrata Nehete and Jashodhara Purkayastha
98	<i>Automatic Speech Recognition using Correlation Analysis</i>	Arnab Pramanik and Rajorshee Raha
12	<i>Performance of Fuzzy equalizers in software defined Radio</i>	Nikhil Marriwala and Sippy Kapoor
125	<i>Multistage Recognition Approach for Handwritten Devanagari Script Recognition</i>	Vijaya Pawar and Arun Gaikwad



About IIITM-K

IIITM-K, established in the year 2000 by Govt. of Kerala is a non-profit making autonomous institution to promote higher education in Kerala in IT and allied areas. The institute has gained strength in several front end areas in the fields of IT education and research. It possesses state of the art IT infrastructure to offer post graduate and PhD Programmes. The academic Programmes of the Institute cover a rich diversity of subject areas in the disciplines ranging from Theoretical Computer Sciences, IT, Scientific Computing, Ecological Informatics, Computational Sciences, Computational Chemistry, Eco-Informatics, Geo-informatics, Security, Community e-Governance concepts, and Enterprise Systems etc.



About MIR Labs

MIR Labs is a global non-profit academic consortium focused on innovation and research excellence. MIR-Labs network comprises of several leading academicians and scientists from Universities and Industries from different continents (<http://www.mirlabs.org>).

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