



||Jai Sri Gurudev||

Sri AdichunchanagiriShikshana Trust @

**SJB INSTITUTE OF TECHNOLOGY**

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DEPARTMENT OF ELECTRONICS & COMMUNICATION ENGINEERING

**IEEE International Conference on Recent Advances in Electronics and Communication  
Technology – 2017 (ICRAECT-2017)**

## ICRAECT 2017 - Program Schedule

### Day - 1

**Date: 16<sup>th</sup> March 2017 [Thursday]**

**Venue: CSE/ISE Seminar Hall**

Time	Agenda
08:00 - 09:00 AM : Registration to ICRAECT 2017	
09:00 - 09:10 AM	Invocation & Lighting of Lamp - Ms. Shilpa & Group
09:10 - 09:15 AM	Welcome Address by: <b>Dr. K. R. Nataraj</b> , Prof & Head, Dept. of ECE
<b>Release of Conference Proceedings</b>	
09:15 - 09:30 AM	Inaugural Address by: <b>Dr. Dutta Roy</b> , Prof. & Former Head, IIT Delhi.
09:30 - 09:45 AM	Address: <b>Dr. Ashok Rao</b> Former Head, Network Project CEDT, IISC
09:45 - 10:00 AM	Address by: <b>Dr. Puttaraju</b> , Principal, SJBIT
10:00 - 10:15 AM	Ashirvachana: <b>Poojya Maha Swamiji</b>
10:15 - 10:30 AM Tea Break	
10:30 - 12:30PM	Keynote Address by: <b>Dr. Dutta Roy</b> , Prof. & Former Head, IIT Delhi. <b>Title: Digital Signal Processing - A Peep into the Past.</b>
12:30 - 1:30 PM : Lunch Break	
1:30 PM - 3:00 PM	Keynote by: <b>Dr. Ashok Rao</b> Former Head, Network Project CEDT, IISC Bengaluru. <b>Title: Subspace Methods in Image Processing.</b>
3:15 - 5:30 PM sessions	

After Keynote, Technical Sessions - 1, 2 will start in parallel

**3:15 - 5:30 PM**

**Session - 1:**

**Venue: NI Lab, 3<sup>rd</sup> Floor, Dept. of ECE.**

**CHAIR: Prof. \_\_\_\_\_**

Paper id	Title (VLSI & Embedded System)	Presenter & Affiliation
43	Testing Methodology For Fibre Channel Protocol In Avionics Applications	SubhashDehriya ADA, Inida
51	Principal Curvature Based Polyp Detection in Wireless Capsule Endoscopy Images	Vani V VTU, India
44	In-Flight Route Replanning And Survivability Analysis For A Fighter Aircraft	SaiSrikanthKesari ADA, Inida
61	VLSI Realization of Lanczos Interpolation for a Generic Video Scaling Algorithm	Safina Sir MVIT, India
14	FPGA Implementation of Image Block Generation and Color Space Conversion for the Gaussian Mixture Model	Manu K.S VTU, India
29	Multi-biometric Cryptosystem based on Decision Level Fusion for File Uploading in Cloud	Fasila Muthoot Institute of Technology & Science, Varikoli
33	Fuzzy Based Job Classification and Resource Allocation in IoT	Daneshwari I. Hatti BLDEA's Engg college, India
6	FPGA Implementation of Image Splitting and Enlarging	Naveen B SSAHE, India
50	Fuzzy Priority Scheduling Algorithm For Multiprocessor Systems	Nirmala H RNSIT, India
84	GDRIU Digital Section Implementation using FPGA	Syed Fasiuddin Swedtel Arabia Ltd, Saudi Arabia
63	Design and Performance Analysis of 6t Sram Cell In 22nm Cmos And Finfet Technology Nodes	Sanjana S R
8	Obstacle avoiding Robot	Preethi A
71	Low Power 8PSK Modulator Using Cadence	Usha S.M Dr. K.R. Nataraj

**Session - 2:**

**Venue: TI Lab, 3<sup>rd</sup> Floor, Dept. of ECE.**

**CHAIR: Prof. \_\_\_\_\_**

Paper id	Title (Electrical Applications)	Presenter & Affiliation
54	High Performance Dc-Dc Converter For Low Voltage Standalone Solar PV Systems	Harsha C M Ragiv Gandhi Institute, Bangalore
57	Development of Doubly Fed Induction Generator Equivalent Circuit and Stability Analysis Applicable for Wind Energy Conversion System	Deepthi Rani M NMAMIT, Nitte
24	Microwatt low voltage bandgap reference for	R. Nagulapalli, Oxford Brookes

	bio-medical application	University, UK
30	Automation of Storage battery testing facility using PLC and HMI	Smita S Hosmani NIE, India
86	Real Time Speed Control Of A DC Motor By Temperature Variation Using Labview And Arduino	Suhada Tasleem VTU, Bangalore
41	Design And Implementation Of High Speed FPGA For Under & Over Voltage Protective Relay	Venkateshmurthy Research Scholar, Jain University
53	Comparative Review On Video Based Vehicular Traffic Data Collection For Intelligent Transport System	Kavitha N DSATM, India
69	Signature Verification System Based On Wavelets	Prathiba ATMECE
52	Analysis And Sensitivity Improvement Of FBG Sensor	Ibrar Jahan RNSIT, Bangalore
87	Non-Contact Water Level Monitoring System Implemented Using Labview And Arduino	Shrenika R M VTU
117	Arithmetic & Comparison operations for ladder diagram based programmable controller	Shobha S
119	Case Study on measurement of SpO2 from PPG signals in the presence of motion artifact	MsSubhagya D.S DrKeshavaMurthy. C Aruna N Mr Lakshmi Janardhan

**06:00 PM - 07:30 PM: CULTURAL PROGRAMS**

End of Day - 1

## Day - 2

**Date: 17<sup>th</sup> March 2017 [Friday]**

**Venue: CSE/ISE Seminar Hall, Dept. of CSE/ISE, Ground Floor**

**Chair: Prof. \_\_\_\_\_**

<b>Time</b>	<b>Agenda</b>
09:00 - 10:30 AM	Keynote by: <b>Dr. Praveen Ramamurthy</b> Associate Professor, Dept. of Materials Science, IISC, Bangalore. <b>Title: Organic Electronics: Issues and Challenges</b>
10:30 - 10:45 AM : Tea Break	
10:45 AM - 11:45 AM	Keynote by: <b>Dr. Shayan G S</b> Assistant Professor, DESE, IISC, Bangalore <b>Title: Music Signal Processing</b>
11:45 AM - 12:30 PM	Keynote by: <b>Dr. Vishal C Ravindra</b> Lead Engineer, GE Global Research <b>Title: Estimation Theory and Applications in Machine Learning &amp; Robotics</b>

**12:30 - 1:30 PM: Lunch Break**

After Lunch, Technical Sessions - 3,4 & 5 will start in parallel (1:30 - 4:30 PM)

**Session - 3:**

**Venue: NI Lab, 3<sup>rd</sup> Floor, Dept. of ECE**

**CHAIR: Prof. Dr. V.N. Manjuanth Aradyha, SJCE, Mysuru**

<b>Paper id</b>	<b>Title (Image &amp; Video Processing)</b>	<b>Presenter&amp; Affiliation</b>
58	A Combined Edge and Connected Component Based approach for Kannada Text Detection in Images	Siddiqua Reva University
67	A Robust Double Watermarking Technique for Medical Images with Semi-Fragility	Lendale Venkateswarlu CVR College of Engineering
62	Design of High Speed Lifting Based DWT Using 9/7 Wavelet Transform for Image Compression	Bhanu Sir. MVIT
55	A Comprehensive Review On Traffic Prediction For Intelligent Transport System	Suhas S CSE, VTU

68	A Transform Domain Approach to Solve PIE Problem in Face Recognition	H. J. Jambukesh GCE, Haveri
16	Image Encryption using Legendre Sequence and DCT	Savithri G VIT, Vellore
98	Construction Workers Activity Detection using BOF	Sowmya K S DBIT, Bangalore
102	Biometric Image encryption using DNA sequences and chaotic systems.	Radhika K R BMSCE, India
64	Comparative Study Of Features Fusion Techniques	Sudha D Vemana Inst.
80	A Review of Discriminant Analysis Algorithms for Face Recognition using Similarity Measures	Pushpalatha VTU, India
25	Development of Continuous Automatic Speech Recognition System for Controlling of MAVs Through Natural Speech.	Sandhya Lakshmi R, Veena S, Lakshmi P, Roja Reddy B
66	Crowd behavior analysis: A survey	Swathi HY
114	Techniques for Detecting and Tracking of Baggages in Airports	Kishan K K K.V.Mahendra Prashanth

#### Session - 4:

Venue: TI Lab, 3<sup>rd</sup> Floor, Dept. of ECE.

CHAIR: Prof. Dr. Puneetha Valli, Professor, Bharathiyar University.

Paper id	Title ( <i>Image &amp; Video Processing</i> )	Presenter & Affiliation
78	Design Of SPI Protocol With DO-254 Compliance For Low Power Applications	Koushik M VTU, India
72	Pre-processing of MR Images for Efficient Quantitative Image Analysis using Deep Learning Techniques	Poornachandra VTU, RRC, Belgaum
74	Smart Pesticide Sprayer for Arecanut	Shwetha B K.V.G College of engineering
7	Grey Design Implementation Of System Generator Module For Image Splitting And Enlarging	Naveen B SSAHE, India
59	An Assessment of some Contemporary Approaches for Human Activity Analysis in Video	Geetha VTU, India
35	Gabor features for single sample face recognition on multicolour space domain	Sanjay G VTU, India
26	Simple Linear Iterative Clustering based tumor segmentation in Liver region of Abdominal CT-scan	Aravinda Dr. AIT, India
20	Automatic control of power supply in classroom using Image Processing	Darshan Ganiger BVBCE, Hubli
81	Vehicle Detection and Tracking Based on Color Feature	Mallikarjun Anandhalli BVBCE, Hubli
39	Oculus Supervised Wheelchair Control for people with Locomotor Disabilities	Tejonidhi M.R MCE, Hassan
118	Wavelet OFDM for Power Line Communication	Lokesh C Dr. Nataraj K. R Dr. Rekha K. R
11	Design of an Area-Efficient Multiplier	Naman S Kumar, RVCE, India

**Session - 5:****Venue: CISCO Lab, 3<sup>rd</sup> Floor, Dept. of ECE.****CHAIR: Prof. \_\_\_\_\_**

<b>Paper id</b>	<b>Title (WSN &amp; IoT)</b>	<b>Presenter&amp; Affiliation</b>
88	IoT Based Monitoring System In Smart Agriculture	Prathibha S R Sambhram Institute of Technology
113	KNODET: A Framework for Mining GPS Data for Intelligent Transportation Systems at Traffic Signals	Prabha R Sai Vidya Institute of Technology
4	A Generic Algorithm For Speed Based Performance Estimation and Computation For Universal Serial Bus 3.0 Super Speed Bulk Transaction	Adithya Rangan C K Innovative Logic Design Services Pvt. Ltd., Bangalore
116	Design of a Compact $\psi$ -shaped Micro-strip Patch antenna on Modified Ground Planes	Anitha Peram JNTUA, India
89	Centralised Domain Based Faulty Node and Link Elimination in Hexagonal Node Based NoC	Shilpa K Gowda Jain University, India
115	Wireless Office Automation & Security System - A Novel Approach	Aswin S VTU, Bangalore
32	Offline Messenger-For Devices Out Of Direct Bluetooth Range	Mariyam Angela Gogy Muthoot Institute Of Technology and Science, India
79	Agent Based Context Aware Data Aggregation And Dissemination In Distributed Multimedia Sensor Networks	Bhanu K N Research Scholar, Rayalaseema University. A.P
99	A Survey on Enhancing System Performance of Wireless Sensor Network by Secure Assemblage based Data Delivery	Kantharaju Vemana Institute of Technology
103	Car Surveillance And Driver Assistance Using Blackbox With The Help Of GSM And GPS Technology	Rekha S VTU, Bangalore
31	Improved Parallel Clustering With Optimal Initial Centroids	AnithaDevadas
15	Recast IPOG-D algorithm with constraint handling for combinational testing	Shwetha M S Girijamma H A
104	Agent Based Social Simulation Model and Unique Identification Based Empirical Model for Public Distribution System	Hitaswi Nasari Chandra Sekaran

***Total presentations from Day 1 & Day 2: 63***

**ICRAECT 2017 - Valedictory Function**  
**Venue: CSE/ISE Seminar Hall**

<b>TIME</b>	<b>AGENDA</b>
04:00 PM - 04:15PM	<b>Valedictory Address by: Dr. K. R. Nataraj</b>
04:15 PM - 04:30 PM	<b>Vote of Thanks by: Dr. Mahantesh K</b>
<b>Closing Ceremony with National Anthem</b>	

End of Day - 2/International conference