



# St. Joseph's Institute of Technology

St. Joseph's Group of Institutions

OMR, Chennai -119.



## 3<sup>rd</sup> International Conference on Recent Trends in Engineering and Technology 4<sup>th</sup> & 5<sup>th</sup> May 2018

**Program Schedule & Session Details**

**Organized by**

**Faculty of Engineering and Technology**

## Program Schedule

	Time	Event
<b>Day -1</b> <b>04-05-2018 ( Friday)</b>	8.15 AM – 8.45 AM	<b>REGISTRATION</b> Venue: Library (Administrative block)
	09.00 AM -09.45 AM	<b>INAUGURATION</b> Venue: AV Hall –I (Administrative block)
	09.45 AM - 10.00 AM	<b>HIGH TEA</b>
	10.00 AM – 11.00 AM	<b>INVITED TALK</b> Venue: Conference Hall – 3 (Administrative block)
	11.00 AM – 12.30 PM	Technical Session 1
	12.30 PM – 1.15 PM	Lunch
	1.15 PM – 2.45 PM	Technical Session 2
	2.45 PM – 3.00 PM	<b>HIGH TEA</b>
<b>Day -2</b> <b>05-05-2018 ( Saturday)</b>	8.15 AM – 8.45 AM	<b>REGISTRATION</b> Venue: Library (Administrative block)
	8.45 AM – 10.15 AM	Technical Session 3
	10.15 AM – 10.30 AM	<b>HIGH TEA</b>
	10.30 AM – 12.30 PM	Technical Session 4
	12.30 PM to 1.15 PM	Lunch
	1.15 PM – 2.45 PM	Technical Session 5
	2.45 PM to 3.00 PM	<b>HIGH TEA</b>

## Department of Computer Science and Engineering

Date : 04 / 05 / 2018		Department of CSE & IT	Domain: Big data
S. No.	Title		
1	Dynamic Ranking Of Educational Institutions Based On User Reviews And Other Features Using Sentiment Analysis And Machine Learning Techniques. Vaishnavi R		
2	A Multikeyword Based Travel And Shortest Route Recommendation System Kishore kumar Balakrishnan		
3	Securing Conversation in Online Social Networking Harini N		
4	Tools & Resources of Big Data Analytics Ajeesh Nikusten P		
5	Mobile electronic Commerce: Exploring Determinants Of Its Adoption Rhytheema Dulloo		
6	Anaphora Resolution In Machine Translation: A Survey Anand Ohm		
7	Genomic and Proteomic Knowledge Base (GPKB) for Gene Disease Identification and Medical Diagnosis Shahana R		
8	Semantic Retrieval of Relevant Documents using Topic Modeling Bhuvaneweri R		

Date : 04 / 05 / 2018		Department of CSE & IT	Domain: Cloud Computing
S. No.	Title		
1	Enhancement of Service Provisioning for Decentralized Cloud Applications Revathee M		
2	An Efficient Token Value Based Approach to OpenStack Identity as a Service Nataraj N		
3	Multi Tenant Access Control For Cloud-Aware Distributed Filesystems Divya mahendran		
4	Efficient Job Scheduling In Cloud Computing A.Rathina Sowmya		
5	Secure Key Management Protocol for Mobile Cloud Data Storage Shakkeera L		
6	Mitigation of Spoofing Attack on IoT Home Networks Harini N		

Date : 05 / 05 / 2018		Department of CSE & IT	Domain: Networks
S. No.	Title		
1	Multi-Factor Authentication Using IMEI Encrypted Color QR Code Sai Pavan Y V V S		
2	Security in online games using blockchain Pavarakshana Dhevi		
3	Multi-Factor Authentication Scheme For Online Examination Naveen Joshy		
4	Survey: An Efficient Way Disseminating Safety Message In VANET Om Prakash Singh		
5	Complete Analysis Of Various Attacks In Manet Rajkumar K		
6	Survey on Channel Allocation and Spectrum Sensing in Cognitive Radio Networks Niroshini Infantia C Christopher		
7	A Productive DDoS TCP And UDP Surge Assault Identification And Aversion Framework Muthukumar_CSE		

Date : 05 / 05 / 2018		Department of CSE & IT	Domain: IOT
S. No.	Title		
1	Design and Development of Intelligent Navigation Control Systems for Autonomous Robots Using Neural Network Viji R		
2	Brain Controlled Car for Disabled Using Blue Brain Technology Thilagavathi S		
3	The Role of Magnetic Quantum Dot Cellular Automata in Replacing Traditional CMOS Technology H.Umamahesvari		
4	Iot Based Android Application For Smart Transportation T.Ranjith		
5	IoT Based SOS and Border Alert System for Piscator's Hazard Shakkeera L		
6	An Efficient And Reliable Iot Based Health Care Information System Using Fog Computing Saravanakumar		
7	An Enhanced Data Integrity Technique For Cloud Storage With Integrated Archive Using PDP Saravanakumar		

**Date : 05 / 05 / 2018**

**Department of CSE & IT**

**Domain: Image Processing**

<b>S. No.</b>	<b>Title</b>
<b>1</b>	Evaluation On Edge Detection Methods On Different Categories Of Images Naveen Joshy John J
<b>2</b>	Image Steganographic Techniques In Data Security - A Technical Overview Saranya R
<b>3</b>	Secure Video Transmission Ramakrishna Kolipaka
<b>5</b>	An Reliable And Efficient Svm Based Security Using Graphical Password Technique Using Online Information System Saravanakumar

## Department of Civil Engineering

Date : 04 / 05 / 2018		Department of Civil		Venue:	
				Mechatronics Laboratory (Lab Block 1 2nd Floor)	
S. No.	Title				
1	Management Of Green Building Projects Using Building Information Modelling Bala Krishnan J				
2	Retrofitting Of Reinforced Concrete Beams With Hpfrcm Strip Compared With Gfrp Sarath Kumar				
3	Disaster Management And Its Response Planning – Hazards During Construction Sangeetha Parthasarathy				
4	Quality Control In Construction Using Six Sigma Technique Janani N				
5	Experimental Study On Dovetailed Profiled Composite Slab Sivaranjani Shunmugam				
6	Lechability Study Of Fly Ash Based Pervious Concrete Subhakanta Dash Dash				
7	Minimization Of Wastage Using Lean Technology In Construction Praseetha K Krishnankutty				
8	Experimental Analysis Of Stone Mastic Asphalt Abirami.G				
9	Structural Behaviour Of Precast Hollow Core Composite Slab Jagathan Prakaash				



## Department of Electronics and Communication Engineering

Date : 04 / 05 / 2018		Department of ECE	Domain: Image Processing
S. No.	Title		
1	Real time haze removal for visual surveillance Venkateswaran		
2	Glaucoma detection using principle component analysis Shiny Christobel		
3	Data hiding in images using combined cryptography and steganography techniques Sivaranjani		
4	A Video Steganography Method For Hiding Secret Data In Video Frames Using Dwt R.Dinesh Chander		
5	Liveliness detection in facial recognition systems V Sathiesh		
6	Face recognition techniques in image processing: a survey poongodi		
7	Leaf Based Plant Recognition System Using Conventional Image Descriptors And Neural Networks Harini		
8	Human emotion recognition using facial expression Sowmya		
9	An efficient screen content video compression using temporal masking effect shamini c s		
10	Double logarithmic arithmetic unit for 3d graphics applications R Deepak		
11	Heart Rate Computation Model Using R-Peak Detection M.Madhumitha		

<b>12</b>	Aerial landmine detection Pushkar
<b>13</b>	Fingerprint identification using Combined Future sudha
<b>14</b>	Comparison of haze related priors using phase unwrapping in single image dehazing Sasipriya S
<b>15</b>	Comparative analysis of object based segmentation using optimization algorithms in video processing Ragavan
<b>16</b>	Survey on various emotions using valence and arousal Ilakkiya T

Date : 05 / 05 / 2018		Department of ECE	Domain:
			VLSI / Embedded / Antenna / DSP / Networks / Optical
S. No.	Title		
1	An improved design of a reversible fault tolerant encoder based FPGA Mridula		
2	A Novel Approximate Multiplier For High Speed And Energy Efficient DSP Processors Rahila		
3	A modified algorithm for digit-level serial-in parallel-out multiplier for finite fields Rahila		
4	Design and implementation of QCA components Saravanan A		
5	Vlsi Design For Convolute Blind Source Separation Nisha Sairam		
6	Design and fpga implementation of a digital down converter Premalatha R		
7	Design of single band microstrip patch antenna for 5g wireless communications A.Safana		
8	Low complexity receiver for generalized frequency division multiplexing Karthikeyan		
9	Farrow based area and speed efficient of fir filter design - Mariammal		
10	Smart vision for visually impaired people - Rohan Chakraborty		
11	Lbp based automatic authorized entry and surveillance systems for residence Syed Salman A		
12	Performance study on acoustic beamforming techniques for hearing aid applications - Sampath		
13	Fruit Freshness Detection Using Raspberry Pi - krithika J		

<b>14</b>	Cognitive radio network sensing using optimal eigenvalue weighting detection - Loganathan
<b>15</b>	Duo permutation for securing data in transit at wireless sensor nodes - a nodal cryptography Muthu Kumar R
<b>16</b>	Photonic generation of uwb signal and its performance evaluation over optical fiber Rimmya
<b>17</b>	E shaped wideband antenna for 5G mobile communication and space communication M.Bharanidivya
<b>18</b>	Estimation of the reasonable attacks against RFID tags for Trusted Entities in Cyber Space Parvathy Arulmozhi1
<b>19</b>	Smart Stick For Visually Challenged For Bus Recognition P. Aishwarya
<b>20</b>	Automatic Traffic Control System For Ambulance K.Vijayaprakash

## Department of Electrical and Electronics Engineering

Date : 04 / 05 / 2018		Department of EEE		Venue:
				Library Conference Hall
S. No.	Title			
1	<b>Title :</b> Series Hybrid Electric Powertrain with Dual Input Bidirectional DC-DC Converter for Two Wheeler Application. <b>Author:</b> <i>Ronaldo Lamare , Dr. S. Paul Sathiyar</i>			
2	<b>Title :</b> MATLAB Based Simulation & Analysis Of Three Phase Nine Level Diode Clamped Inverter <b>Author:</b> <i>Mr.P.Ramesh,Dr.D.Kirubakaran</i>			
3	<b>Title :</b> Modulation Techniques For Reduction Of Leakage Current In Cascaded Multilevel Inverter <b>Author:</b> <i>K. Madhavi, P.Ajay-D-Vimal Raj, N. Muraly, P. Rajan</i>			
4	<b>Title :</b> Performance Improvement Of Partially Shaded Photo Voltaic System Fed Motor Load Using Fuzzy Logic Controller. <b>Author:</b> <i>T.Arun Srinivas, G.Themozhi</i>			
5	<b>Title :</b> Analysis of Switched Capacitor Based Three Phase Quasi Switched Boost Inverter. <b>Author:</b> <i>P.Sriramalakshmi , S.R.Sanjay kumar</i>			
6	<b>Title :</b> Integration of Solar Wind Hybrid System to Microgrid with Demand Side Management <b>Author:</b> <i>Sahaya Stefee. X, Priyadarshini. S, Dr.A.K.Parvathy</i>			
7	<b>Title :</b> High Step-Up Converter in renewable energy sources <b>Author:</b> <i>N.Sujith kumar Reddy, P. Amzadkhan, Students</i>			
8	<b>Title :</b> Solar Based Load Management System Using Raspberry PI <b>Author:</b> <i>Rishabh Gupta<sup>1</sup>, Shubham Swami<sup>1</sup>, J.Arun Venkatesh<sup>2</sup>, S.Karthikrajan<sup>2</sup>, K. Iyswarya Annapoorani<sup>3</sup></i>			
9	<b>Title :</b> Design And Fabrication Of Solar Pesticide Sprayer <b>Author:</b> <i>AshwinKannanA,KarthikeyanB</i>			

Date : 04 / 05 / 2018		Department of EEE	Venue:
			Library Conference Hall
S. No.	Title		
10	<b>Title :</b> A 15 Level Multilevel Inverter With Reduced Number of Switches <b>Author:</b> <i>Geetha</i>		
11	<b>Title :</b> Standalone Maritime Boundary Protection Using Floating Station <b>Author:</b> <i>Sunantha Jayaseelan</i>		
12	<b>Title :</b> Hybrid System Fed Brushless Dc Motor Drive Based Water Pump For Isolated Area <b>Author:</b> <i>A.Balasubramani</i>		
13	<b>Title :</b> Performance Analysis Of Three-Level SVM Based Direct Torque Control Of Induction Motor Using Fuzzy Tuned PI Controller <b>Author:</b> <i>Kousalya D</i>		
14	<b>Title :</b> Study Of High Impact Graphenematerial As Energy Efficient For The Design Of Solar Cells, Batteries Andsuperconductors <b>Author:</b> <i>J. Rahulkumar, PG Scholar</i>		
15	<b>Title :</b> A Non-Isolated DC-DC Converter With Coupled Inductor And Asymmetrical Voltage Multiplier Network For Household Applications <b>Author:</b> <i>Ms. B. Shalini</i>		
16	<b>Title :</b> PLC Based Stator Water Cooling System For High Capacity Generators In Power Plant <b>Author:</b> <i>Ms. Ahnisiya N M</i>		
17	<b>Title :</b> Autoregressive Model And Wavelet Packet Decomposition With Convolution Neural Network In ECG Signal Classification <b>Author:</b> <i>R. Pavithra</i>		
18	<b>Title :</b> Voltage Control And Load Management Of A DC Micro Grid With Variable Generation And Load Management <b>Author:</b> <i>S. Angeline Priyadarsini</i>		
19	<b>Title:</b> Space Vector Control Ideology for High Level Diode Clamped Inverters <b>Author:</b> <i>Mr.P.Ramesh,Dr.D.Kirubakaran</i>		
20	<b>Title :</b> Development of New Real Time Energy Management System to Improve Energy Utilization Rate of Solar and Wind Energy <b>Author:</b> <i>K.Parvathy, S.Priyadharshini, Dr.A.K.Parvathy</i>		

## Department of Mechanical Engineering

Date : 04 / 05 / 2017		Department of Mechanical Engineering	Venue:
			CAD/CAM Laboratory
S. No.	Title		
1	Machining Of Pair Of Holes On Die – Sinking EDM Using Twin Tool Setup Vinod Kumar B		
2	Design and Development of Waving blade of small wind turbine Rakesh S		
3	Effect of Dimples on the blades of a Vertical Axis Wind Turbine Hari Kiran Balachandran		
4	Reduction of NOx emissin in a diesel engine using oxidation inhibitor Arunachalam D		
5	Using RSM determining the effect of build parameters on Percentage Elongation using ASA polymer in Fused Deposition Modeling Badal Sharma		
6	Optimization of Process Parameters of EDM Drill for Metal Removal Rate (MRR) and Tool Wear Rate (TWR) Sambhav Mehta		
7	Mechanical Properties of hybrid glass/carbon fibre reinforced Epoxy composite fabricated by hand layup technique Tahreem Mir		
8	Cutting Forces Generated During Dry Turning of Annealed H13 Tool Steel Aditya Pal		
9	To measure impacts generated agent technology in manufacturing control system and prioritization by fuzzy AHP Sunil Kumar		
10	Ergonomic analysis of two wheeler clutch actuating mechanism Raja Vignesh S		
11	Fabrication and Characterization of Carbon Fiber Reinforced Polymer Composite for Automotive Application J.Chandradass		
12	A study on wire wear ratio and form error in Wire-EDM Process. Muralidharan S		

Date : 04 / 05 / 2017		Department of Mechanical Engineering	Venue:
			CAD/CAM Laboratory
S. No.	Title		
1	Fatigue strength and failure mechanisms of notched and un-notched Specimens: Influence of microstructure on HCF-region Vinod B		
2	Ejection Mechanism for Helicopters Nitin Sharma		
3	Experimental investigation and optimization of Process parameters in D2 die steel using Electrical Discharge Machining Shagun Sharma		
4	Hydromagnetic Flow and Heat Transfer in a Williamson Non-Newtonian Fluid from a Horizontal Circular Cylinder with Thermal and Momentum Slip Effects: Numerical Study Seela Sainath		
5	Concept of a Wireless charging system for Energy efficient Electric vehicle J.Chandradass		
6	Reducing The Idle Time Of Boring Machine By Queuing Up Of Activities And Re-Designing The Mechanism Ramesh B		
7	Finite Difference Solutions of Heat Conduction Problem with Dirichlet and Neumann Boundary Conditions Dr. M.V.Shyla		
8	Experimental investigation on effect of Fused deposition modeling process parameters on dimensional accuracy Sunil Sinha		
9	Design and fabrication of Robotic arm with 7 DOF G.Godwin Rajkumar		
10	Design & Analysis Of Safety Protective Steering System For Commercial Vehicles Using Push Pull Solenoid Valve K N Balan		
11	Optimization of damping characteristic of hydro gas suspension system for Armoured fighting vehicles Suresh Kumar N		
12	Characterization of sandstone from a crude oilfield Sivasakthi A		