



# MAHARAJA INSTITUTE OF TECHNOLOGY MYSORE

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DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

## Paper Publications and Paper Presents Details



Name of the faculty	Title of the Paper	Name of the Journal/Conference	Details of Publication
<b>Dr. Mahesh Rao</b>	Numerical Modeling and Control of Gas Concentration in Underground Mines	ISMM Journal, - Microcomputer Applications	Vol. 8, No. 3, pp. 1-12, 1989
	Computer Based Controller for Pressure Cycle Commintion	IEEE Transactions on Industrial Applications	Vol. 28, No. 6, pp 1439-1445, Nov/Dec, 1992
	Meteor Burst Communication for Telemetering of Highway Data	Journal of ISMM, Microcomputer Applications	Vol.12, No.1, pp. 11- 17, 1992
	'Smart' Data Acquisition and Control Unit for Water Level Measurement and Containment	IEEE Transactions on Industrial Electronics	1991
	Disc Crawling Motor: A High-Torque Magnetic-Attraction Positioning Actuator	IEEE Transactions on Industrial Electronics	Oct. 1992, Vol. 39, No.5, pp. 453-459
	Design of a low-power data acquisition and control unit	Microcomputer Applications, IASTED	Vol. 13, No. 1, 1994, pp. 13-18
	Development of LTE UE Protocol stack and NAS Layer	International Journal of Trends in Research and Development	ISSN 2394-933, Volume 2 Issue 4, 2015
	An Image Segmentation comparison approach for Lesion Detection and Area calculation in Mangoes	International Research Journal on Engineering and Technology	pg190-196, Volume 2, Issue 5, August 2015
	Video compression using spatial and temporal redundancy – a comparative study	International Journal of Innovative Research in Science, Engineering and Technology	pp:4801-08, Volume 4, Issue 6, June 2015

Performance study on Implementation of DVBS2X LDPC codes on AWGN channel	International Journal For Technological Research In Engineering	pp2194-97, Volume 2, Issue 9, May 2015
Survey on Application of WSN for Precision Agriculture	IJECER,	Volume 2, Issue 1,2015
128bit polynomial authentication using facial recognition techniques	IJESC	Volume 6, Issue 7, July 2016, Page 4190-94
Printed Circuit Board Assembly Defects Detection Using Image Processing Techniques	IJESC	Volume 6, Issue 6, June 2016, Page: 7824-29
<i>Application of 3D Graphics For the Analysis of An Electrical System Using Ansys</i>	<i>IEEE Region V Conference</i>	<i>pp. 96-100, April 1986.</i>
<i>Crawling Motor - A Novel Concept of Incremental Motion Drive</i>	<i>Seventeenth Annual Symposium on Incremental Motion Control Systems and Devices</i>	<i>pp 261-266, June 1988.</i>
<i>A Novel Control of Gas Flow Rate by Computer</i>	<i>ISMM, Computer Applications in Design, Analysis and Simulation</i>	<i>pp. 243-244, Feb. 1989.</i>
<i>A Novel Magnetic-Attraction Position Actuator</i>	<i>IEEE-APEC</i>	<i>pp. 109-112, March 1989.</i>
<i>Modular Steppers, Linear and Rotating</i>	<i>Eighteenth Annual Symposium on Incremental Motion Control Systems and Devices</i>	<i>pp. 267-270, June 1989</i>
<i>Pressure Cycle Comminution of Eastern Oil Shale</i>	<i>1989 Easter Oil Shale Symposium,</i>	<i>Nov. 1989, Lexington, KY, pp. 411-416</i>
<i>Control and Implementation of Ore Reduction by Hydraulic Pressure Cycle</i>	<i>ISMM, Computer Applications in Design, Analysis and Simulation, New Orleans, LA</i>	<i>March, 1990, pp. 301-304.</i>
<i>Computer Based Controller for Pressure Cycle Comminution</i>	<i>The 10th West Virginia University International Mining Electrotechnology Conference</i>	<i>July 1990, pp. 111-115</i>

<i>Design of an Expert System for the HMA Process</i>	<i>ISMM, Computer Applications in Design, Analysis and Simulation, Las Vegas</i>	<i>March, 1991, pp. 189-191</i>
<i>A Hardware Implementation of the Adaptive Resonance Theory Neural Network</i>	<i>Golden West Conference on Intelligent Systems, Reno</i>	<i>June, 1991, pp. 21-28.</i>
<i>Disc Crawling Motor: A Low Speed High Torque Drive</i>	<i>4th European Conference on Power Electronics and Applications</i>	<i>pp. 1.434 - 1.437, September, 1991</i>
<i>Meteor Burst Communication for a Highway-Traffic Data Collection Network</i>	<i>ISMM, Engineering and Industrial Applications of Microcomputer</i>	<i>pp. 28-31. December, 1991,</i>
<i>Design of a Low Power Data Acquisition and Control Unit</i>	<i>ISMM Engineering and Industrial Applications of Microcomputers Conference</i>	<i>pp. 32-35, December, 1991</i>
<i>Design and Implementation of an Automated Thirty-two Channel Tester (A32CT)</i>	<i>accepted for presentation at the IEEE International Symposium on Industrial Electronics</i>	<i>May 1992, Xian, China.</i>
<i>Add-in FLASH Memory Card for an 80C186EA Application</i>	<i>Proceedings of the ISCA International Conference, Honolulu, Hawaii, USA</i>	<i>Dec 15-17, 1993, pp. 146-150</i>
<i>Energy Efficient Ceiling fans using BLDC motors- A Practical Implementation</i>	<i>presented at the International Conference on Advances in Computer, Electronics and Electrical Engineering held at Mumbai,</i>	<i>March 25-26, 2012</i>
<i>Analysis on Data Loss in Sensor Network Used in Harsh Environment – A Survey</i>	<i>Presented at the International Conference on Computer Applications</i>	<i>Jan 2012</i>
<i>A Survey on Machine to Machine Communication in LTE Advanced Technology</i>	<i>Presented - 5th International Joint Conference on Advances in Engineering and Technology AET</i>	<i>2014</i>
<i>Novel Technique for Compiler Optimization for Superscalar and</i>	<i>IEEE CONECCT, Conference, Bangalore</i>	<i>2015</i>

<i>Pipelined processor</i>		
<i>Concept of Automatic Landing Gear system with altitude and distance as parameter</i>	<i>ICCR, Conference, Mysore</i>	<i>2016</i>
<i>Survey on defect detection in Bare PCB and Assembled PCB using Image Processing Technique</i>	<i>IEEE International Conference on Wireless Communication, Signal Processing and Networking</i>	<i>Chennai, 2017</i>
<i>Wi-Fi Enabled Device-to-Device Communication in Underlying Cellular networks</i>	<i>Wispnet</i>	<i>2016</i>
<i>New technology for machine to machine communication in SoftNet towards 5G</i>	<i>International Journal of Wireless &amp; Mobile Networks (IJWMN)</i>	<i>Vol. 9, No. 2, April 2017 IJWMN 2017 march issue</i>
<i>Routing protocol for device to device communication in SoftNet towards 5G</i>	<i>ICTIS</i>	<i>2017</i>
<i>Security and Handover Mechanism for device-to-device Communication in SoftNet towards 5G</i>	<i>ICSIP</i>	<i>2017</i>
<i>Survey on Application of WSN for Precision Agriculture</i>	<i>IJECER</i>	<i>Vol. 4 Issue 01, January 2016</i>
<i>Tomato Plant Disease Classification Using Fusion Approach and Precaution Measures to Cure</i>	<i>ICSIP</i>	<i>2017.</i>
<i>Video Compression technique - A Survey</i>	<i>6th International Conference on Signal and Image Processing (ICSIP)</i>	<i>18 and 19 Aug 2017</i>
<i>A WSN Based Environmental Parameters Monitoring for Precision Agriculture and Optimization Modeling</i>	<i>ICSIP</i>	<i>2017.</i>
<i>A Machine Vision-Based Artificially and Naturally Ripened prediction system for Sorting of Mangoes.</i>	<i>6th International Conference on Signal and Image Processing (ICSIP)</i>	<i>18 and 19 Aug 2017</i>

<b>Mrs. Shanty Ajish</b>	An efficient fault tolerance algorithm for wireless sensor networks	IJETST	July 2015
	Energy Efficient Hierarchical Based Routing Protocol For Mobile Wireless Sensor Network	IJETST	July 2015
	Congestion control in wireless peer networks	IJETST	August 2015
	Word Repetition Analysis in Stuttered Speech Using Dynamic Time Warping	International Research Journal of Engineering and Technology(IRJET)	Volume: 03 Issue: 06   June-2016
	Resource Allocation for Device to Device Communication in underlying cellular Network	IJIREEICE	DOI 10.17148, 2016
	<i>Effects of Nano &amp; Micro fillers on Leakage Current &amp; water diffusion of GRP rods</i>	<i>I-DAD 2018</i>	<i>22 Feb 2018</i>
<b>Mrs. Veena SK</b>	Face recognition using transform domain techniques	IOSR journals	Vol.5,issue 3,may –june 2015
	<i>Analysis of image hashing scheme based on secure perceptual signal</i>	<i>National conference on technological advancements in engineering</i>	<i>Mar 2015</i>
	Subjective evaluation of fundus images of human eye	Icspccr (IFERP)	May 2016
	<i>Video Compression technique - A Survey</i>	<i>6<sup>th</sup> International Conference on Signal and Image Processing (ICSIP)</i>	<i>18 and 19 Aug 2017</i>
<b>Mrs. Lavanya M</b>	<i>A Survey on Speech Recognition</i>	<i>6<sup>th</sup> International Conference on Signal and Image Processing (ICSIP)</i>	<i>18 and 19 Aug 2017</i>
<b>Mrs. Anitha Raghavendra</b>	Ripeness Evaluation of Mangoes using Image Processing	International Journal of Engineering Science and Computing	Volume 6 Issue No. 71618-1620 July 2016

	A Survey on Internal Defect Detection in Fruits by Non-Intrusive Methods	International Journal of Recent Trends in Engineering and Technology	Volume 6 Issue.3343-348 January 2016
	An Image Segmentation comparison approach for Lesion Detection and Area calculation in Mangoes	International Research Journal of Engineering and Technology (IRJET)	Volume: 02 Issue: 05e- ISSN: 2395 -0056p- ISSN: 2395-0072 August 2016
	<i>A Machine Vision-Based Artificially and Naturally Ripened prediction system for Sorting of Mangoes.</i>	<i>6<sup>th</sup> International Conference on Signal and Image Processing (ICSIP)</i>	<i>18 and 19 Aug 2017</i>
<b>Mr. Sheshagiri Jois</b>	Word Repetition Analysis in Stuttered Speech Using Dynamic Time Warping	International Research Journal of Engineering and Technology (IRJET)	Volume: 03 Issue: 06   June-2016
	Fusion based Fingerprint Recognition based on CLBP descriptor and DWT	IOSR Journal of VLSI and Signal Processing (IOSR-JVSP)	Volume 5, Issue 3, Ver. I (May - Jun. 2015), PP 00-00 e-ISSN: 2319 – 4200, p-ISSN No. : 2319 – 4197
	Personal credentials verification using signature and Iris recognition	IRJET journal	volume-2 Issue-3 June 2015
<b>Mrs. Suma R</b>	<i>Low Power DAC</i>	<i>6<sup>th</sup> International Conference on Signal and Image Processing (ICSIP)</i>	<i>18 and 19 Aug 2017</i>
<b>Mr. Devendran B</b>	<i>Toolbox for material classification of MMWR and FLIR for Enhanced Vision System</i>	<i>National Conference on Wireless, Signal Processing and Embedded Systems</i>	<i>21 and 22 Jun 2013</i>
	<i>Modeling specifications for HiVision Millimeter Wave Radar for multisensory Enhanced Vision Systems</i>	<i>National conference E-Innovation</i>	<i>23 Mar 2013</i>
	<i>Design of an Efficient Solar Buck-Boost Regulator</i>	<i>International Conference on Networks, Information and Communications (ICNIC)</i>	<i>18 to 20 May 2015</i>
<b>Mr. Balakrishana K</b>	Survey on Application of WSN for Precision Agriculture	IJECER	Vol. 4 Issue 01, January-2016

	Real-Time Soil Monitoring System for the Application of Agriculture	IJESC	Volume 6, Issue No. 5, 2016
	<i>A WSN Based Environmental Parameters Monitoring for Precision Agriculture and Optimization Modeling</i>	<i>6<sup>th</sup> International Conference on Signal and Image Processing (ICSIP)</i>	<i>18 and 19 Aug 2017</i>
	<i>Tomato Plant Disease Classification Using Fusion Approach and Precaution Measures to Cure</i>	<i>6<sup>th</sup> International Conference on Signal and Image Processing (ICSIP)</i>	<i>18 and 19 Aug 2017</i>
<b>Mr. Sandesh N G</b>	Design and Synthesis of Sequential Circuit using Reversible Logic	IJIRD, Journal of VLSI Design	Vol. 2, Issue 6, Jun 2013
<b>Mrs. Niveditha H R</b>	Fast And Reconfigurable PCE In FPGA-Based Firewall.	International Journal of Engineering Research & Technology	Volume 2, Issue 6, ISSN:2278-0181 June 2013
	<i>Copy-Move Forgery Detection in Digital Images Using Block Matching Method</i>	<i>International Conference on Information &amp; Communication Engineering (ICICE)</i>	<i>28 June, 2013</i>
<b>Mr. Shivaprasad K</b>	Morphology Based Surface Crack Detection	Journal of Advanced Research and science	Volume 1 Issue 1 September 2015
	<i>Imaging for Concealed Weapon Detection</i>	<i>National Conference on Electronics, Signals, Computation and Optimization</i>	<i>9 July, 2015</i>
	Design of drowsiness, Heart beat detection system and alertness indicator for driver safety	RTEICT	2016
<b>Mrs. Anisha P S</b>	<i>A Review on Person Recognition techniques in Video Surveillance Systems</i>	<i>1<sup>st</sup> International Conference, DBIT, Bangalore</i>	<i>21<sup>st</sup> and 22<sup>nd</sup> Feb,</i>
	<i>Text Detection Based on Morphological Operations and Inpainting</i>	<i>2<sup>st</sup> International Conference, DBIT, Bangalore</i>	<i>2015</i>
<b>Mrs. Dhanushree V</b>	Image De-noising using Median Filter and D..WT Adaptive Wavelet Threshold.	International Organization Of Scientific Research (IOSR) Journal of VLSI and Signal	Vol. 5, Issue 3, (May.- Jun.) 2015

		Processing	
<b>Mrs. Pallavi J</b>	Emotional analysis and evaluation of kannada speech database	International Conference on current trends in Engineering and Management	Volume 5, Issue 8, Aug 2014
<b>Mr. Sushanth K J</b>	2-D Implementation of Digital Gabor filter design using Verilog	International conference on Electrical Engineering and Computer Science(ICEECS)	ISBN: 978-93-81693-58-2, Page no 277-281, kerala, 2012.
	Comparative Analysis on the Applications of Wireless Sensor Network	International Global Journal for Engineering Research (IGJER)	pp. 27-32, Vol. 10 Issue 2, 2014
	Multipoint Relay Selection using Trilateration Technique	Proceedings of the First International Conference on Trends in Technology for Convergence.	TITCON-15, Salem
	Attacks that downturn the performance of wireless networks	International conference on Computing communication control and Automation (ICCUBEA)	DOI: 10.1109/ICCUBEA, pages 122-128,IEEE pune 2015
	Gesture Controlled robotic arm using Wireless Networks	IJERM	Volume 3, Issue 1, Page no 91-101, April, 2016
	Smart Vehicle with Theft Prevention using GSM and GPS	Int, Journal of Innovative Research in Electrical, Electronics, Instrumentation and Control Engineering	ISSN : 2321 – 5526 Vol. 5, Issue 6, June 2017.
	Border Alert System for Fishermen Using GPS System	World Journal of Research and Review (WJRR)	ISSN:2455-3956, PP 01-04, Volume-2, Issue-5, Canada, May 2016
	Motion detection based on Discrete wavelet Transform and Gaussian mixture model Technique	IJCEM	Volume 3, Issue 1, Page no 102-114, April, 2016
Estimation and study of Electromagnetic radiations levels from mobile towers	International Journal of Engineering Research And Management (IJERM)	Pages 58-62, ISSN : 2349- 2058, Volume-03, Issue-04, April	



			2016.
	IoT based Irrigation system using natural resource	IJIREECE	ISSN : 2321 – 5526 Vol. 5, Issue 6, June 2017.
	Recognition of Face Using PCA Algorithm	International Journal of Engineering Research And Management (IJERM)	Pages 63-66, ISSN : 2349- 2058, Volume-03, Issue-04, April 2016
	Green Refrigerator Implementation using Peltier Cell and GSM	International Journal of Innovative Research in Electrical, Electronics, Instrumentation and Control Engineering.	ISSN : 2321 – 2004 Vol. 5, Issue 6, June 2017
<b>Ms. Vidya P Korakoppa</b>	Implementation of a highly efficient sorting algorithm for median filtering using FPGA Spartan 6 (Best paper award)	IEEE International Conference on Innovative Mechanisms for Industry Applications (ICIMIA), DSCE, Bengaluru.	ISBN 978-1-5090-5960-7 July 2017
	An area efficient FPGA implementation of moving object detection and face detection using adaptive threshold method	IEEE International Conference on Recent Trends in Electronics, Information and Communication Technology(RTEICT), SVCE, Bengaluru.	ISBN 978-1-5090-3704-9/17 May 2017

Name of the faculty	Title of the Paper	Name of the Journal/Conference	Details of Publication
<b>Dr. Ravichandra Kulkarni</b>	Design Improvisation for Reduced Harmonic Distortion in a Flux Pump Integrated HTS Generator	<i>Energies</i> journal, MDPI	Energies 2017, 10(9), 1344; <a href="https://doi.org/10.3390/en10091344">https://doi.org/10.3390/en10091344</a> .
	Through-wall excitation of a magnet coil by an external rotor HTS flux pump	<i>IEEE Transactions</i> on Applied Superconductivity	vol. 26, no. 4, pp. 1-5, June 2016, Art no. 0500505.doi: 10.1109/TASC.2016.2526605
	FEM and performance analysis of 10 kW HTS generator with flux pump excitation	<i>IEEE International Conference</i> on Power System Technology (POWERCON), Wollongong, NSW, Australia	POWERCON, NSW Australia, 2016doi: 10.1109/POWERCON.2016.7753913
	Flux pump for HTS rotating machinery	<i>IEEE International Conference</i> on Towards Future Power Systems and Emerging Technologies (POWERTECH), TU Eindhoven Netherlands	PowerTech, Eindhoven, 2015, pp. 1-5.doi: 10.1109/PTC.2015.7232747
	A novel strategy to enhance the life of capacitor in a battery charger for domestic applications	<i>IEEE International Conference</i> on Power Signals Control and Computations (EPSCICON), Kerala, India.	EPSCICON, Thrissur, 2014, pp. 1-5.doi: 10.1109/EPSCICON.2014.6887515