



# **SREE VIDYANIKETHAN ENGINEERING COLLEGE**

(Autonomous)

Sree Sainath Nagar, A.Rangampet – 517102

## **Department of Electronics and Instrumentation Engineering**

### **Faculty Publications and Conferences**

#### **Dr. Y. Dileep Kumar:**

1. MEMS Accelerometer System for Tremor Analysis in International Journal of Advanced Engineering and Global Information Technology, Vol. 2, Issue 5, May 2014.
2. Analysis of SEMG to remove ECG using wavelets in Australian Journal of Basic and Applied Sciences, 9(31), September 2015, Pages: 299-303.
3. Estimation of ECG Features using wavelets in Journal on Digital Signal Processing, Vol. 3, Issue 4, October-December 2015, Pages 9-15.
4. Wavelet Analysis of EEG using LABVIEW in Indian Journal of Emerging Electronics in Computer Communications, Volume 3, Issue 1, 2016, Page.542-547.
5. Effect of PCA feature reduction on ventricular Ectopic beat Classification in International Journal of Engineering and Advanced Technology (IJEAT), Vol.9, pp 29-32, 2019.
6. ECG Abnormalities Detection Using Doppler Shift Method in International National Conference on Advanced Computing & Communication Technology, Rohtak, February 8-9, 2014.
7. Wavelet Analysis of EEG using LABVIEW in International Conference on Green Technologies for Power Generation, Communication & Instrumentation, Chennai, March 23-24, 2016.
8. Denoising and Compression of Biosignals (ECG, EEG & EMG) Using Wavelets in 2017 International Conference on Advanced Computing and Communication Systems (ICACCS - 2017), Coimbatore, January 6-7, 2017.
9. Real Time Analysis Of ECG Signal Using Discrete Wavelet Transform in 2nd International Conference on Cognitive Informatics & Soft Computing (CISC-2019), 09th to 10th April 2019.

#### **Mr. C. Ravindra Murthy**

1. Image Compression using Complex Wavelet Transform (CWT) with Custom Thresholding, International Conference on Electronics, Communication and Aerospace Technology ICECA 2017, 978-1-5090-5686-6/17, pp.308-312
2. Design and Performance Evaluation of PI Controller for Conical Tank Using IMC Method, International Conference on Advanced Information and Communication Technology, 24-02-2017 to 25-02-2017.

**Mr. G. Hemanth kumar**

1. International Journal Of Advanced Science And Technology(IJAST) End-To-End communication Between IoT Devices To Maximize Energy Efficiency Through Optimization And Localization Based On The Bio-Inspired Algorithms. volume.28 No.16, page No. 444-1452, 2019
2. International Journal of Innovative Technology and Exploring Engineering (IJITEE) Stabilize Nonlinear Interactive Process By Predictive Method On Receding Horizon vol.8,No.10 Pg. No. 999-1004, 2019
3. International Journal of Advanced Science and Technology Reducing Power Feasting And Extend Network Life Time Of Iot Devices Through Localization vol.28,No.12, Pg.No.297-305, 2019
4. International Journal of Pure and Applied Mathematics(IJPAM) Novel gateway free device to device communication technique for IoT to enable direct communication between homogeneous devices vol.118 No.16 Pg.No.565-578, 2018
5. International Journal of Engineering and Techniques Design and Implementation of 10 bit Pseudo Random Sequence Generator for 50 MHz vol.2, No.3 Pg.No.1-4, 2016
6. i-manager's Journal on Image Processing Detection Of Changes In Multi-Temporal Images Using Un-decimated Discrete Wavelet Transform And Active Contours vol.1 No.2, Pg.No.1-11, 2014
7. International Journal of Engineering Research and Applications (IJERA) Low Bandwidth and Low Power Video Encoding Vol.3 No.1, Pg.No.1522-1526, 2013
8. International Conference on Information Communication and Embedded Systems (ICICES) Intelligent gateway for real time train tracking and railway crossing including emergency path using D2D communication S.A. Engineering College, Chennai. 23-24, February 2017
9. Cognitive Science and Artificial Intelligence (ICCSAI) Sree Vidyanikethan Engineering College,Tirupati.05-07, July 2017
10. Cognitive Informatics & Soft Computing (CISC) Novel gateway free device to device communication technique for IoT to enable direct communication between homogeneous devices Vignana Bharathi Institute Of Technology, Hyderabad. 20-21, December,2017
11. International Conference on Smart Computing and Control of Systems (ICSCCC) Analyze of Multivariable Distillation Column by Tuning of Predictive Method SREE VIDYANIKETHAN ENGINEERING COLLEGE 17<sup>th</sup>-19<sup>th</sup> October,2019
12. International Conference on Disruptive Engineering Education for Sustainable Development Optimization of Network Coverage and Lifetime in WSN based on Pareto Optimization using NSGA VIT, Chennai. 13<sup>th</sup>-16<sup>th</sup> November,2019
13. International Conference on Automation of Aerators based system on Water Quality Parameters in Aqua Culture Vizag 14<sup>th</sup>-15<sup>th</sup> December,2019

**Mr. K. Ayyappa Swamy:**

1. K. Ayyappa, G. Hemanth Kumar, and M. Balaji. "Low Bandwidth and Low Power Video Encoding", Int. J. of Engineering Research and Applications (IJERA), ISSN : : 1522-1526 Vol. 3, No. 1, 2013, pp. 1522-1526.
2. A. Yasmine, GV Venkata Marutheswar, and K. Ayyappa Swamy. "Tuning of PID controller for superheated steam temperature system using modified Zeigler-Nichols tuning

Algorithm", International Journal of Engineering and Advanced Technology, Vol. 2 (2013), pp. 541-543.

3. K. Ayyappa Swamy, C. Somasundar Reddy, K. Durga Sreenivas, "Image Compression Using Hybrid DCT-DWT Transform", International Journal of Advanced Research in Computer Science and Software Engineering, ISSN: 2277 128X, Vol 5, Issue 5, May 2015, pp. 1655-1658.
4. Santhosh Kumar, B., and K. Ayyappa Swamy. "FPGA Implementation of a Nakagami-m fading channel Simulator using Random Number Generator", Indonesian Journal of Electrical Engineering and Computer Science, ISSN: 2502-4752, Vol. 4, Issue 1, 2016, pp. 133-140.
5. "A Non-Uniform Digital Filter Bank Hearing-Aid for Aged People with Hearing Disability", International Conference on Communications, Signal Processing and VLSI (IC2SV2019) International Springer NIT Warangal, 23-10-2019 to 24-10-2019.
6. K. Ayyappa Swamy, S. Prathima and N. Padmaja, "Study of Presbycusis and Single Microphone Noise Reduction Techniques for Hearing Aids," *2018 IEEE International Conference on Computational Intelligence and Computing Research (ICCIC)*, Madurai, India, 2018, pp. 1-5.
7. K. Ayyappa Swamy and B. Santhosh Kumar, "A Boundary Detection Algorithm Applied by using Gradient Vector Flow Snake model and Watershed techniques", IEEE I2CT 2017.
8. K. Ayyappa Swamy and U. Naresh Kumar "Bandwidth and Power Reduction in Video Encoding" in National Conference (NCACT-12) held at GITAM University.

#### **Mr. C. Somasundar Reddy:**

1. Recognition of IRIS for Person Identification, International Journal of Engineering Research and Applications (IJERA) ISSN: 2248-9622, Vol. 3, Issue 2, March -April 2013, pp.834-838
2. Algorithm Of Gesture Based Interaction Robot, International Journal of Engineering Research and General Science Volume 3, Issue 1, January-February, 2015, ISSN 2091-2730, pp.922-927
3. Detection Of Heart Abnormalities Using Labview, IASET: International Journal of Electronics and Communication Engineering (IJECE), ISSN (P): 2278-9901; ISSN (E): 2278-991X, Vol. 5, Issue 4, Jun – Jul 2016; ,pp.15-22
4. Image Compression using Complex Wavelet Transform (CWT) with Custom Thresholding, International Conference on Electronics, Communication and Aerospace Technology ICECA 2017, 978-1-5090-5686-6/17, pp.308-312
5. End-To-End Communication Between IoT Devices To Maximize Energy Efficiency Through Optimization And Localization Based On The Bio Inspired Algorithms., International Journal of Advanced Science and Technology, Vol. 28, No. 16, (2019), pp. 1444-1452
6. Image Compression Using Hybrid DCT-DWT Transform, International Journal of Advanced Research in Computer Science and Software Engineering, Vol.5, Issue 5, Jun – Jul 2015, Issue 5 ,pp.1655-1658
7. Contour Approximation Of Image Recognition By Using Curvature Scale Space And Invariant moment Based Method, International Journal of Advances in Engineering & Technology, Mar. 2014. ISSN: 22311963, Vol. 7, Issue 1, pp. 359-371

**Ms. N. Harathi**

1. Zno Nanostructured 2d Layered Saw Based Hydrogen Gas Sensor With Enhanced Sensitivity in Elsevier Materials today, Feb 2020, <https://doi.org/10.1016/j.matpr.2020.01.150>
2. Design And Optimization Of Zno Nanostructured Saw-Based Ethylene Gas Sensor With Modified Electrode Orientation in Advances in Science, Technology and Engineering Systems Journal (ASTESJ) (SCOPUS) ISSN: 24156698. vol. 5, no. 1, Jan. 2020. pp. 263-266
3. Smart Setup For Gas Detection Using Arduinio in International Journal of Latest Trends in Engineering and Technology (IJLTET) (UGC journal) ISSN: 2278621X.vol. 10, no. 1, pp. 238-243, Mar. 2018.
4. Hardware Approach To Demodulate Satellite Relayed Video Signals in Indian Journal of Science and Technology, (Web of science) ISSN: 09745645.vol. 10, no. 30, pp. 01-07, Sep. 2017.
5. Enhancements In Digital Image Watermarking Using Neural Networks in International Journal of Innovations in Engineering and Technology (IJIET) (UGC Journal) ISSN: 23191058.,vol. 7, no. 2, pp. 192-200, Aug. 2016.
6. Comparison Of Psnr Of Dct, Dwt And Dtt Using Telenuclear Medical Images in Journal on Image Processing (JIP) (i Manager'sl) ISSN: 23494530 ,vol. 1, no.3, pp. 23-32, Sep. 2014.
7. Nimmala Harathi, Dr.S.Kavitha, Argha Sarkar "Zno Nanostructured 2d Layered Saw Based Hydrogen Gas Sensor With Enhanced Sensitivity" *International Conference on Nanotechnology: Ideas, Innovations and Initiatives(ICN2K19)*, Dec.2019. Publisher (Elsevier).
8. Neeruganti Vikram Teja Nimmala Harathi, Argha Sarkar, Kottakomala Sai Priya, "Modeling of MEMS based Surface Acoustic Wave-Gas Sensor to Obtain Enhanced Sensitivity" *3rd International Conference on Electronics, Material Engineering and Nano-Technology (IEMENTech 2019)*, Aug. 2019. Publisher (IEEE) ISBN: 978-1-7281-5542-5.
9. N.Harathi, Dr.V.R Anitha, V.Meenakshi "Review On Environmental Pollution Monitoring Sensor Using MEMS Based Non Dispersive Infrared Spectroscopic Technique" *International Conference on Innovations in Power and Advanced Computing Technologies [i-PACT2017]* Apr. 2017. Publisher (IEEE) ISBN: 978-1-5090-5681-1 /17/\$31.00 ©2017 IEEE
10. N.Harathi, V.Meenakshi "Improved Robustness Of Biomedical Image Using DTT" *International Conference on photonics VLSI and Signal Processing [ICPVS 2014]* Mar. 2014. ISBN: 978-93-5107-228-7

**Mr. B. Santhosh Kumar**

1. Implementation of a Nakagami-m fading channel Simulator", Indonesian Journal of Electrical Engineering and Computer Science, Vol. 4, No. 1, October 2016, pp. 133 ~ 140 DOI: 10.11591/ijeecs.v4.i1.pp133-140 (a SCOPUS Journal indexed journal)

2. Communicated a manuscript entitled with “Performance of Submarine depth control with PID and Fuzzy Logic controller using Lab VIEW” to IJET Journal (a Scopus indexed journal).(initial screening is over and sent the revised version to the Editorial Board)
3. Communicated a review article “IoT implementation in Pre and Post Harvesting Techniques in Agriculture4.0 ” to International Agricultural Engineering Journal (a Scopus indexed journal). (Under review Process)
4. Communicated a manuscript entitled with “A Novelistic design approach of a Nakagami- m Fading channel Simulator on FPGA using Random Number Generator” to IEEE conference ICICT-2016 which was held on August 26-27 at Coimbatore and sponsored by Inventive Research Organization and got acceptance for publication in IEEE digital explorer.
5. Communicated a manuscript entitled with “Performance Analysis of Selection Combining Diversity in Nakagami-m Fading and Laplace Co-channel Interference” to IEEE- ICNTET conference which was held in GRT College of Engineering Tirutthani on 8th & 9th on 8th & 9th September 2018 and got acceptance for publication in IEEE digital explorer
6. Communicated a manuscript entitled with “A different way of Level measurement for PBL in Education of students using NI-LabVIEW, Multisim and MyRIO” to i-PACT-2019 which will be held on March 23rd-24th 2019,VIT University, Vellore got acceptance for publication in IEEE digital explorer
7. Communicated a manuscript entitled with “Analysis and synthesis of Image using wavelet transform & compression methods” to i-PACT-2019 which will be held on March 23rd-24th 2019,VIT University, Vellore got acceptance for publication in IEEE digital explorer

#### **Ms. N. P. Dharani**

1. Detection Of Breast Cancer By Thermal Based Sensors Using Multilayered Neural Network Classifier in International Journal of Engineering and Advanced Technology, ISSN: 2249 – 8958, Volume-9 Issue-2, December, 2019, PP.5615-5618.
2. Hardware Approach To Demodulate Satellite Relayed Video Signals in Indian Journal of Science and Technology, ISSN (Online): 0974-5645, ISSN (Print): 0974-6846, Vol 10(34), September 2017.
3. IOT Based Smart Water Leakage Detection in International Journal of Engineering Research in Electronics and Communication Engineering, ISSN (Online) 2394-6849, Vol 4, Issue 3, March 2017, PP. 215-218.
4. Modern Railway Information System For Gate Control And Information Display in International Journal of Advanced Research in Electrical, Electronics and Instrumentation Engineering, ISSN (Print): 2320 – 3765, ISSN (Online): 2278 – 8875, Vol. 5, Issue 3, March 2016, pp.1539-1545.
5. Reliable Adaptive Modulation Aided By Lrp For Sfh Channels in International Journal of Electrical, Electronics and Data Communication, ISSN: 2320-2084, Volume-3, Issue-6, June-2015, pp.122-125.
6. On-Chip Generation Of Functional Tests For High Transition Faults Using Fixed Hardware in International Journal of Electrical, Electronics and Data Communication, ISSN: 2320-2084, Vol 2, Issue-10, PP.77-81.

7. Generalised Forgy's Algorithm For Efficient Image Segmentation in International Journal of Advanced Research in Computer and Communication Engineering, ISSN (Online): 2278-1021 ISSN (Print): 2319-5940, Vol 3, Issue 9, PP. 8048-8051.