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Dr.P.Sukumar is currently working as Professor, Electronics and Communication Engineering Department in Nandha Engineering College,

## **Selected Publications:**

## **REFERRED JOURNAL PUBLICATIONS**

## **PUBLICATIONS: INTERNATIONAL JOURNALS**

- 1. P.Sukumar And R.K.Gnanamurthy ,"Segmentation And Abnormality Detection Of Cervical Cancer Cells Using Fast Elm With Particle Swarm Optimization", The Serbian Genetic Society publishes Journal, Genetika, Vol. 47, No.3, 863-876, 2015.(Indexed in Annexure I, Anna Unviersity) [Scopus Indexed] [Web of Science Indexed]
- P.Sukumar And R.K.Gnanamurthy ,"Computer Aided Detection of Cervical Cancer Using Pap Smear Images Based on Adaptive Neuro Fuzzy Inference System Classifier", Journal of Medical Imaging and Health Informatics, American Scientific Publishers, Vol. 6, 1–8, 2016. (Indexed in Annexure – I, Anna University) [Scopus Indexed] [Web of Science Indexed]
- 3. P.Sukumar, S.Ravi, "Computer Aided Detection and Classification of Pap smear Cell Images Using Principal Component Analysis" Accepted for the publication in International Journal of Bio-Inspired Computation. (Indexed in Annexure I, Anna University) [Scopus Indexed] [Web of Science Indexed]
- 4. P.Sukumar And R.K.Gnanamurthy, "Computer Aided Detection of Cervical Cancer Using Pap Smear Images Based on Hybrid Classifier", International Journal of Applied Engineering Research, Research India Publications, Volume 10, Number 8 (2015) pp. 21021-21032 (Indexed in Annexure II, Anna University) [Scopus Indexed]
- P.Sukumar And R.K.Gnanamurthy, "Computer Aided Screening of Cervical Cancer Using Random Forest Classifier", Research Journal of Pharmaceutical, Biological and Chemical Sciences, Volume 7, Issue 1, January – February 2016, pp.1521 – 1529(Indexed in Annexure – II, Anna University) [Scopus Indexed]
- 6 T.Maheswari And P.Sukumar, "Error Detection and Correction in SRAM Cell Using DecimalMatrix Code", IOSR Journal of VLSI and Signal Processing (IOSR-JVSP), Volume 5, Issue 1, Ver. II (Jan Feb. 2015), PP 09-14

- 7. P.Uma Devi And P.Sukumar, "Low Energy Asynchronous CAM Based On Reordered Overlapped Search Mechanism", The International Journal Of Science & Technoledge, Volume 3, Issue 3, March 2015, pp 74 80
- 8. M.Kangavalli And P.Sukumar, "Asynchronous Transfer Mode Implementation Using Z-T CAM", International Journal of Engineering Research-Online, Volume 3, Issue 2, March 2015, pp 155 162
- 9. S.Prabhakher And P.Sukumar, "Performance Analysis of Rotation Invariant parts Based Object Detection in High-Resolution Images", International Journal of Engineering Science Invention, Volume 4 Issue 5, May 2015, pp.01-06
- 10. K.Sabeha And P.Sukumar, "Highly Secured Indoor Outdoor Localization forE- Hostel Management", Journal of Network Communications and Emerging Technologies (JNCET), Volume 5, Issue 1, November (2015), pp 30-34. [Indexed in Google Scholar].
- 11. K.Sabeha And P.Sukumar, "Highly Secured System to Find the Improper Impression of Fingerprints in Hostel", IJSRD International Journal for Scientific Research & Development, Volume 3, Issue 11, 2016,pp.545-549. [Indexed in Google Scholar].
- 12. Ravi. S, Kumarakrishnan.V,Rohini, R, And Sukumar.P, "MATLAB/SIMULINK Based Intelligent Power Quality Conditioner Using Fuzzy Logic Controller", Middle-East Journal of Scientific Research(MEJSR), 24 (Special Issue on Innovations in Information, Embedded and Communication Systems), 2016,pp.26-31. [Scopus Indexed]
- 13. S. Ravi, Vitaliy Mezhuyev, K. Iyswarya Annapoorani, P. Sukumar, "Design and Implementation of a Microcontroller Based Buck Boost Converter as a Smooth Starter for Permanent Magnet Motor", Indonesian Journal of Electrical Engineering and Computer Science, Volume 1, Issue 03, March 2016,pp.566-574 [Scopus Indexed]
- 14. P.Sukumar And Dr.S.Ravi, "Weed Detection Using Image Processing By Clustering Analysis", International Journal of Emerging Technologies in Engineering Research(IJETER), Volume 4, Issue 5, May 2016,pp.14-18. [Indexed in Google Scholar].
- 15. P.Sukumar And Dr.S.Ravi, "IOT Based Efficient Vehicle Location Help Line System Using NFC", International Journal of Emerging Technologies in Engineering Research(IJETER), Volume 4, Issue 5, May 2016,pp.10-13. [Indexed in Google Scholar].
- 16. P.Sukumar And Dr.S.Ravi, "Cropping OF Weeds in the Farm Field by Image Acquisition and Processing Methods", International Journal of Emerging Technologies in Engineering Research(IJETER), Volume 4, Issue 5, May 2016,pp.5-9. [Indexed in Google Scholar].
- 17. P.Sukumar And Dr.S.Ravi, "Crime Recognition in Skin Images Using Vein Patterns", International Journal of Emerging Technologies in Engineering Research(IJETER), Volume 4, Issue 5, May 2016,pp.1-4. [Indexed in Google Scholar].
- 18. P.Sukumar, Dr.S.Ravi And K.Tamilselvan, "Wearable Bio-Sensor System Using ZigBee Network for Patients and Health Monitoring", International Journal of Emerging Technologies in Engineering Research(IJETER), Volume 4, Issue 5, May 2016,pp.142-146. [Indexed in Google Scholar].
- 19. P.Sukumar, Dr.S.Ravi And K.Tamilselvan, "Secured Wearable Bio-Sensor System Using ZigBee for Monitoring Sick Patients", International Journal of Emerging Technologies in Engineering Research(IJETER), Volume 4, Issue 5, May 2016,pp.147-153. [Indexed in Google Scholar].

- 20. K.Tamilselvan, R.Krishnaraj, Dr.P.Thangaraj And P.Sukumar, "A Survey of Educational Portal Using Raspberry PI", International Journal of Emerging Technologies in Engineering Research(IJETER), Volume 4, Issue 5, May 2016,pp.1-4. [Indexed in Google Scholar].
- 21. K.Tamilselvan, R.Krishnaraj, P.Sukumar And T.Jayakumar, "Security Method for Human Finger and Palm Images Identification", International Journal of Emerging Technologies in Engineering Research(IJETER), Volume 4, Issue 5, May 2016,pp.1-4. [Indexed in Google Scholar].
- 22. M.Jeyachandran, P.Sukumar, "A Novel Approach to Detect & Prevent Hardware Trojan Attacks for Trusted Integrated Circuits", Journal of Network Communications and Emerging Technologies (JNCET), Volume 6, Issue 11, November 2016, pp.1-6
- 23. M.Jeyachandran, P.Sukumar, "A Novel approach to detect & prevent hardware Trojan attacks for trusted integrated circuits", International Journal of Intellectual Advancements and Research in Engineering Computations (IJIAREC), Volume 5, Issue 1, March 2017, pp.407-412
- 24. Dr.P.Sukumar, C.M.Theepshika, B.Nathiya, Sharika Sasikumar, S.Vinothini, "Adaptive Cruise control with ultrasonic and alcohol sensor", International Journal of Intellectual Advancements and Research in Engineering Computations (IJIAREC), Volume 5, Issue 1, March 2017, pp.134-138
- 25. P.Sukumar, S.Gowtham, R.Kavin, S.Nagarjun, S.Prakash, "Autonomous Robot for Roadside drainage cleaning", International Journal of Intellectual Advancements and Research in Engineering Computations (IJIAREC), Volume 5, Issue 1, March 2017, pp.242-245
- 26. S. Ravi, C. Sujitha, Bakary Diarra and P. Sukumar, "Design and Development of Fuzzy System Based Unified Power Quality Conditioner for Harmonic Elimination", Indian Journal of Science and Technology, Volume 10, Issue 6, February 2017, pp.01-05

## NATIONAL AND INTERNATIONAL CONFERENCES

- 1. P.Sukumar, "Criminal Identification using Skin Cancer And Fusion with Infrared Vein Patterns", International Conference on Synergistic Evolutions in Engineering, held in Surya Engineering College, Perundurai Road, Erode on 24th March, 2016.
- 2.P.Sukumar, "Weed Detection using Image processing", National Conference on Advancement in Management Engineering and Technology(NCAMET'15), held in Jay Shriram Group of Institutions, Tirupur on 6<sup>th</sup> March,2015.
- 3. P.Sukumar, "Performance Analysis of Rotation Invariant Parts based Object Detection in HRI", Third National Level Conference on Advanced Computational Intelligence Systems(NCACIS'15), held in Nandha Engineering College, Erode on 7<sup>th</sup> March, 2015
- 4. P.Sukumar, "Reduction of MCU to Enhance Memory Reliabality Using PMC", Third National Level Conference on Advanced Computational Intelligence Systems (NCACIS'15), held in Nandha Engineering College, Erode on March 7<sup>th</sup> March, 2015
- 5. P.Sukumar, "Nuclei Segmentation of Skin Cells Using Seed Detection Algorithm", Third National Conference on IRVEN'2015, held in Jay Shriram Group of Institutions, Tirupur on 20<sup>th</sup> March, 2015
- 6. P.Sukumar, "Weed Detection using Image processing", Third National Level one day Conference on Emerging trends in Information & Computer Science(ETICS'15), held in M.P.Nachimuthu M.Jaganathan Engineering college, Erode on 24<sup>th</sup> March, 2015.
- 7. P.Sukumar, "Secured System to find the Improper Impression", Fourth National Conference on Advanced Computational Intelligence Systems, held in Nandha Engineering College, Erode on 19<sup>th</sup> March, 2016.

- 8. P.Sukumar, "IOT Based Bus Location Help Line System for Public Transportation using NFC", Fourth National Conference on Recent trends in Engineering and Technology, held in KSR Institute of Engineering and Technology, KSR Kalvi Nagar, Tiruchengode on 24<sup>th</sup> March, 2016.
- 9. P.Sukumar, "Autonomous Robot for Roadside Drainage Cleaning", 1<sup>st</sup> International Conference on Recent Innovations in Engineering Technology and Management, held in Nandha Engineering College(Autonomous), Erode 52 on 25<sup>th</sup> March 2017
- 10. P.Sukumar, "A Novel Approach to Detect & Prevent Hardware Trojan Attacks for trusted Integrated Circuits", 1<sup>st</sup> International Conference on Recent Innovations in Engineering Technology and Management, held in Nandha Engineering College(Autonomous), Erode 52 on 25<sup>th</sup> March 2017
- 11. Dr.P.Sukumar, "Adaptive Cruise control with ultrasonic and Alcohol Sensor", 1<sup>st</sup> International Conference on Recent Innovations in Engineering Technology and Management, held in Nandha Engineering College(Autonomous), Erode 52 on 25<sup>th</sup> March 2017