

## **Dr. S. DHANALAKSHMI**

### **Publications (International Journals):**

1. **Dhanalakshmi Samiappan** and Venkatesh, C. “Classification of Carotid Artery Abnormalities in Ultrasound Images using an Artificial Neural Classifier”, The International Arab Journal of Information Technology, Volume 13, Issue 6A, December 2016, pp. 756-762 (**SCI Indexed, Scopus Indexed, IF 0.519, SNIP-1.127**)
2. Sreejith S., Indragandhi V., **Dhanalakshmi Samiappan**, Muruganandam, “Security constraint unit commitment on combined solar thermal generating units using ABC algorithm”, International Journal of Renewable Energy Research, Volume 6, Issue 4, 2016, pp.1361-1372(**Scopus Indexed, WOS Indexed, SNIP-0.762**)
3. Harisudha, **Dhanalakshmi Samiappan**, “Subband coding and Glottal Closure Instant (GCI) using SEDREAMS algorithm”, International Journal of Control Theory and Applications, Vol. 9, No.34, 2016, pp. 631-638. (**Scopus Indexed, SNIP-1.466**)
4. Uma Kumari, **Dhanalakshmi Samiappan**, “All optical health monitoring system: An experimental study on visible light communication in biomedical signal transmission” Accepted 2017- **Springer** Lecture notes in networks and systems.
5. **Dhanalakshmi Samiappan**, Jaba Deva Krupa, “Epoch extraction using Hilbert Huang Transform for identification of closed glottis interval”, Accepted 2017 - **Springer** Lecture notes in networks and systems.
6. Jaba Deva Krupa, **Dhanalakshmi Samiappan**, “Data Dependent Sub-band Coder for Image Compression”, Accepted 2017 - **Springer** Lecture notes in networks and systems.
7. Mariselvam, **Dhanalakshmi Samiappan**, “Hilbert Huang Transform and its variants in engineering data analytics: State of the art and Research challenges”, Accepted 2017- **Springer** Lecture notes in networks and systems.
8. Latha.S, **Dhanalakshmi Samiappan**, “A Hybrid Approach for Image Denoising in Ultrasound Carotid Artery Images” Accepted 2017, **Springer** Lecture notes in networks and systems.
9. Abel Jaba Deva Krupa, **Dhanalakshmi Samiappan**, Niraimathi.P, “Efficient Human Detection Technique for Intrusion Detection Systems”, International Journal of Control Theory and Applications, Vol. 9, No.14, 2016, pp. 6691-6700. (**Scopus Indexed, SNIP-1.466**)
10. **Dhanalakshmi Samiappan**, Manideep, S.Sreenivasa Reddy, Sathya Narayanan, “Speech Emotion Recognition based on SVM and BPN classifier”, International Journal of Control Theory and Applications, Vol. 9, No.16, 2016, pp. 7801-7806. (**Scopus Indexed , SNIP-1.466**)
11. Chamant. K, Britto John, Arun Chandra and **Dhanalakshmi Samiappan**, “ Image Reconstruction using Compressive Sensing Architecture for Application in Surveillance Systems”, International Journal of Control Theory and Applications , Vol. 9, No.16, 2016, pp. 7865-7869. (**Scopus Indexed, SNIP-1.466**)

12. **Dhanalakshmi Samiappan**, Madhavan Krishnan, Arun Mrithyunjay and S. Visali, "Circuit Extraction Technique from Perfboard Images", International Journal of Control Theory and Applications", Vol. 9, No.16, 2016, pp. 7851-7854. (Scopus Indexed , SNIP-1.466)
13. P.Sai Baba, K.Goutham, S.Latha, **S.Dhanalakshmi**, "Detection of Tumor and Thrombi in Echocardiography Images by using Adaptive Co-Segmentation and Sparse Classifier", Journal of Chemical and Pharmaceutical Sciences , Vol. 9, No.3, July - September 2016, pp. 1172- 1176 (Scopus Indexed, SNIP-0.156)
14. Syed Mohammad Aslam, S.Latha, **S.Dhanalakshmi**, "Design of Low Power Efficient Full Adder Using Six Transistor X-OR and Mux Circuit", Journal of Chemical and Pharmaceutical Sciences, Vol. 9, No.3, July - September 2016 , pp.1191- 1196 (Scopus Indexed, SNIP-0.156)
15. S.Latha, P.Muthu, **S.Dhanalakshmi**, "A Review and Comparative Study of Methods used in Finding Carotid Artery Abnormalities using Ultrasound Images", International Journal of Control Theory and Applications (ISSN : 0974-5572), Vol. 9, No.10, Sep 2016, pp.4891-4898 (Scopus Indexed, SNIP-1.466)
16. Renuka, R. and **Dhanalakshmi, S.** "Android Based Smart Parking System using Slot Allocation and Reservations", ARPN Journal of Engineering and Applied Sciences, Vol. 10, No. 7, 2015, pp. 3116 - 3120 (Scopus Indexed, SNIP-0.616)
17. Soorya, B. and **Dhanalakshmi, S.** "VLSI Implementation of Modified Guided Filter for Real Time Video", ARPN Journal of Engineering and Applied Sciences, Vol. 10, No. 7, 2015, pp. 3067 - 3071. (Scopus Indexed, SNIP-0.616)
18. Shanmuganathan, R and **Dhanalakshmi, S.** "VLSI Implementation for Haar DWT with Modified Matrix Multiplication Algorithm", Australian Journal of Basic and Applied Sciences, Vol. 9, No. 15, 2015, pp. 142-147. (Scopus Indexed, SNIP-0.501)
19. Priyadharsini, G and **Dhanalakshmi, S.** "VLSI Implementation of Trellis Encoding and Decoding method for a Noise Robust Speech Recognition", Australian Journal of Basic and Applied Sciences", Vol. 9, No. 15, 2015, pp. 83-88. (Scopus Indexed, SNIP-0.501)
20. Dhanalakshmi, S., Sathya Arunachalam and Venkatesh, C. "Classification of Multi-category Abnormalities in Ultrasound Carotid Artery Images using an Extreme Learning Machine", International Journal of Applied Engineering Research, Vol.9, No.21, pp.5106-5112, 2014. (Scopus Indexed, SNIP 0.260)
21. Dhanalakshmi, S. and Mohammed Farook, I., "Optimal Feature Selection and Classification of Carotid Artery Images using Evolutionary Computation", International Journal on Applied Mechanics and Materials, Vol. 626, pp.79-86, Aug 2014. (Scopus Indexed, SNIP 0.260)
22. Dhanalakshmi, S. and Venkatesh, C. "Classification of Ultrasound Carotid Artery Images Using Texture Features", International Review on Computers and Software, Vol.8, No.4, April 2013. (Scopus Indexed, SNIP 0.339)
23. Dhanalakshmi, S. and Venkatesh, C. "Nonlinear Structure Tensor based Spatial Fuzzy Clustering for Ultrasound Carotid Artery Image Segmentation with Texture and IMT Extraction using Hilbert Huang Transform", European Journal of Scientific Research, Vol.80, No.3, pp.289-302, July 2012. (Scopus Indexed, SNIP 0.659)

24. Soorya, B. and **Dhanalakshmi, S.** “VLSI Implementation of Modified Guided Filter for Edge Preservation”, International Journal of Applied Engineering Research, Vol.9, No.21, pp.5137-5143, 2014. (Scopus Indexed, SNIP 0.260)
25. Renuka,R. and **Dhanalakshmi, S.**“Online Smart Parking System based on Resource Allocation and Reservations”, International Journal of Applied Engineering Research, Vol.9, No.21, pp.5144-5150, 2014. (Scopus Indexed, SNIP 0.260)

#### **International Conferences:**

1. Uma Kumari, Dhanalakshmi Samiappan,T.RamaRao, Tata Sudhakar “Mach-Zehnder Interferometer Based High Sensitive Water Salinity Sensor for Oceanographic Applications”, IEEE- INDICON 2016, 16 Dec-18 Dec 2016, Bengaluru.
2. Dhanalakshmi,S., “Epoch Extraction using Hilbert Huang Transform for identification of closed glottis interval”, Proceedings of the 5<sup>th</sup> International Conference on Innovations in Electronics and Communication, 8<sup>th</sup> to 9<sup>th</sup> July 2016.
3. Jaba Deva Krupa, Dhanalakshmi, S.“Efficient Human Detection Technique for Intrusion Detection Systems”, Proceedings of Joint International Conference on Artificial Intelligence and Evolutionary Computations in Engineering Systems, 19<sup>th</sup> to 21<sup>st</sup> May 2016.
4. Dhanalakshmi, S. “VLSI Implementation of Trellis Encoding and Decoding method for a Noise Robust Speech Recognition”, Proceedings of the International Conference on Recent Trends and Advancement in Information and Communication Engineering, 27<sup>th</sup> March 2015.
5. Dhanalakshmi, S. “VLSI Implementation for Haar DWT with Modified Matrix Multiplication Algorithm”, Proceedings of the International Conference on Recent Trends and Advancement in Information and Communication Engineering, 27<sup>th</sup> March 2015.
6. Dhanalakshmi, S. and Venkatesh, C. “Classification of Multi-category Abnormalities in Ultrasound Carotid Artery Images using an Extreme Learning Machine”, Proceedings of the International Conference on pattern Recognition and Multimedia Signal Processing, 9<sup>th</sup> and 10<sup>th</sup> January 2015.
7. Dhanalakshmi, S. and Ramya, B. “Autonomous Vehicle Navigation of underwater images for monitoring using image processing and enhancement”, Proceedings of the National Conference - Trenzine 2k14”, 5<sup>th</sup> September 2014.