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LIST OF PATENTS PUBLISHED

| S.No | Application Number | Title of the Patent | Status |
|------|--------------------|---|------------------|
| 1. | 201841033956 A | HORIZONDAL AXIS,CAM GUIDED , TELESCOPIC BLADE , YAW CONTROLLED WIND MILL | Patent Published |
| 2. | 202041012276 A | EDP-MACHINE LEARNING: ENTERPRISE INTERNET-OF-THINGS(IOT) APPLICATION DEVELOPMENT PLATFORM USING MACHINE LEARNING | Patent Published |
| 3. | 202041012278 A | DDPN-TECHNOLOGY: DISEASE DIAGNOSES PREDICTION AND NOTIFICATION USING IOTBASED TECHNOLOGY | Patent Published |
| 4. | 202041024153 A | IOT AND CLOUD BASED AGRICULTURAL DATA MANAGEMENT SYSTEM AND METHOD FOR EFFECTIVE PLANTING AND BREEDING | Patent Published |

List of Publications(Last Five Years)

1. S. Kumarganesh and M. Suganthi, "Efficient Medical Data and Medical Video Compression Using HEVC Standard, Int. J. Adv. Sci. Eng. Vol. 1 No. 3 27-31 (2015) ISSN 2349 5359.
2. P.Rupa Ezhil Arasi , M.Suganthi, " Comparative study of Brain Tissue Segmentaion techniques" International Journal of Applied Engineering Research, ISSN 0973-4562 Vol. 10 No.46 (2015), 32119-32124.
3. P.kaliram and M.Suganthi, " A Robust Stenographic algorithm based on Guided search and Wavelet Transform for color image transmission" International Journal of Applied Engineering Research, ISSN 0973-4562 Vol. 10 No.46 (2015), 32217- 32222.

4. C. Selvi , M. Suganthi , Detection of Breast Cancerous Tissues Based on Sift Algorithm Using Soft Computing”, International Journal of Applied Engineering Research, ISSN 0973-4562 Vol. 10 No.46 (2015), 32256- 32263.
5. M.Suganya , Dr.M.Suganthi , “Automatic Detection and Measurement of Structures in Fetal Head Ultrasound Volumes Using Sequential Estimation and Integrated Detection Network (IDN)” , International Journal of Applied Engineering Research, ISSN 0973-4562 Vol. 10 No.46 (2015), 32130- 32138.
6. A.Immanuvel and M.Suganthi, “ MIMO-OFDM system for BER reduction over multipath channel with impulse Noise” , International Journal of Applied Engineering Research, ISSN 0973-4562 Vol. 10 No.46 (2015), 32074- 32080.
7. K.Premalatha , Dr.M.Suganthi and Dr.V.Ponniyin selvan, “ Thermogram Based Breast Cancer Analysis Using Classifier Ensembles And Image Symmetry Features” International Journal of Applied Engineering Research, ISSN 0973-4562 Vol. 10 No.46 (2015), 32110- 32119
8. M. Kavinilavu, S.Kumarganesh and M.Suganthi , “ multilevel decomposition based ct image compression using discrete wavelet transform, International Journal of Applied Engineering Research, ISSN 0973-4562 Vol. 10 No.32 (2015), 23636- 23640.
9. R.Suganya, S.Kumar Ganesh, Dr.M.Suganthi, “ LS-Based Adaptive Prediction and Edge Directed Prediction for Lossless Compression of Medical Image”, International Journal of Applied Engineering Research, ISSN 0973-4562 Vol. 10 No.32 (2015), 23667- 23674.
10. S.Gowmi, S.Kumarganesh, Dr.M.Suganthi, “ Region Based Hybrid Medical Image Compression Using Set Partitioning Embedded Code Block And Adaptive Arithmetic Coding”, International Journal of Applied Engineering Research, ISSN 0973-4562 Vol. 10 No.32 (2015), 23684- 23690.
11. **V.K. Buvanesvari and M. Suganthi.** , “ Finite Element Modelling and Analysis of MRI Scan Knee Image using Soft Computing Techniques” , Journal of Pure and Applied Microbiology Vol. 9, p. 01-06.

12. **V. Ponniyin Selvan and M. Suganthi**, "Clinical Support System for Classification of Tumor in Mammogram Images Using Multiple Features and Neural Network Classifier", *Journal of Pure and Applied Microbiology*, Aug. 2015. vol. 9, p. 253-261.
13. **S.Kumarganesh and M.Suganthi** , "An Efficient Approach for Brain Image (Tissue) Compression Based on the Position of the Brain Tumor" *International Journal of Imaging Systems and technology*, Volume 26, Issue 4, December 2016 Pages 237–242 2016 Wiley Publications.
14. **Kaliram Perumal, Suganthi Muthusamy and Gowrison Gengavel**, "Robust multitier spatial domain secured color image steganography in server environment" *Cluster Computing*, Springer, Volume 1 Pages 1-9, November 2017, 1386-7857.
15. **Subramaniam Bharathi, Muthusamy Suganthi and Gengavel Gowrison**, "Modified weighted code with bit invert approach to minimize crosstalk in network on chip links" *Cluster Computing*, Springer, Volume 1 Pages 1-11, December 2017, ISSN 1386-7857.
16. **M. Suganthi and V. Karunakaran**, "Instance selection and feature extraction using cuttlefish optimization algorithm and principal component analysis using decision tree", *Cluster Computing*, Volume 1 Pages 1-13, January 2018, ISSN 1386-7857
17. **D. Anitha , M.Suganthi and T.S. Gnanendra** , "Evaluation of data mining classifiers for prediction and classification of Glaucoma associated proteins" *Int J Pharm Bio Sci* Volume 9 Issue 1, 2018 (January-March), Pages:1-11, DOI: <http://dx.doi.org/10.22376/ijpbs.2018.9.1.b1-11>
18. **Kumarganesh, S.; Suganthi, "M.**An Enhanced Medical Diagnosis Sustainable System for Brain Tumor Detection and Segmentation using ANFIS Classifier" *Current Medical Imaging Reviews*, Volume 14, Number 2, April 2018, pp. 271-279(9), **Publisher:** Bentham Science Publishers, **DOI:** <https://doi.org/10.2174/1573405613666161216122938>
19. **Anitha Duraisamy, Suganthi M, Gnanendra Shanmugam** , " Machine Learning Prediction of Glaucoma Associated Proteins from Integrated Composition Features", *International Journal for Research in Applied Science & Engineering Technology (IJRASET)* ISSN: 2321-9653; IC Value: 45.98; SJ Impact Factor: 6.887 Volume 6 Issue VI, June 2018, Page No.241-247.

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21. **Elayaraja P and Suganthi M** "Automatic Approach for Cervical Cancer Detection and Segmentation Using Neural Network Classifier", DOI:10.31557/APJCP.2018.19.12.3571, Asian Pacific Journal of Cancer Prevention, Vol 19, 3571-3580, 2018
22. **Karunakaran Velswamy, Iwin Joseph, Ravi Tea, Suganthi Muthusamy and Rajasekar Velswamy** "A Wrapper Based Feature Selection Approach using Bees Algorithm for Extreme Rainfall Prediction via Weather Pattern Recognition Through SVM Classifier", in International Journal of Civil Engineering and Technology (IJCIET), Volume 10, Issue 01, (January 2019)
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24. **P.Rupa Ezhil Arasi , M.Suganthi**, "A Clinical Support System for Brain Tumor Classification Using Soft Computing Techniques", Journal of Medical Systems , Springer DOI: [10.1007/s10916-019-1266-9](https://doi.org/10.1007/s10916-019-1266-9) April 2019
25. **S. Meenakshi, M. Suganthi & P. Suresh Kumar** "An approach for automatic detection of fetal gestational age at the third trimester using kidney length and biparietal diameter" Journal of Soft Computing, Springer , Soft Comput (2019) 23:2839-2848 DOI 10.1007/s00500-019-03913-8
26. **Buvanesvari V K and Sugnathi.M**, "Three Dimensional Modelling of MRI Knee Images using Improved Edge Detection and Finite Element Modelling", M. Multimed Tools Appl (2019). <https://doi.org/10.1007/s11042-019-7565-9>
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29. D Anitha, M Suganthi, S Gnanendra, M Govarthanan "Identification of Potential Carbonic Anhydrase Inhibitors for Glaucoma Treatment Through an In-Silico Approach" International Journal of Peptide Research and Therapeutics, Springer Netherlands , 26, pages2147–2154(2020)