

## **S. MALATHI**

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### **Area Expertise:**

- Software Engineering
- Image Processing
- Big Data

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### **Publications :**

#### **International Journals**

1. M. Anitha, V. D. Ambeth Kumar, S. Malathi, V. D. Ashok Kumar, M. Ramakrishnan, Abhishek Kumar, and Rashid Ali, “ A survey on the usage of pattern recognition and image analysis methods for the lifestyle improvement on low vision and visually impaired people”, Pattern Recognition and Image Analysis” Journal and will be published in Issue 1, Vol. 31, 2021. (InPress)
2. V. D. Ambeth Kumar,S. Malathi,Abhishek Kumar,Prakash M and Kalyana C. Veluvolu, “Active Volume Control in Smart Phones Based on User Activity and Ambient Noise” ,Sensors 2020, 20(15), 4117; <https://doi.org/10.3390/s20154117> [SCIE]
3. VD Ambeth Kumar ; Malathi Subramanian ; Gokul Gopalakrishnan ; Krishnasamy Vengatesan ; Durai Elangovan ; Balakrishnan Chitra , " Implementation of the pulse rhythmic rate for the efficient diagnosing of the heartbeat", IET Healthcare Technology Letters, Volume 6, Issue 2, April 2019, p. 48 – 52 (A-I).
4. S Malathi, VD Ambeth Kumar ,G. Gokul and V.Rahul Chiranjeevi, "Intelligent System for Irrigation Based on Water Flow Controlling Design in Different Vegetation" Journal of Electrical Engineering : Volume 19 , No. 2, 2019.(A-I).

5. S. Malathi, M. Sumithra, " Segmentation Of Different Modalities Using Fuzzy K-Means And Wavelet ROI", International Journal of Scientific & Technology Research, Nov.2019(under pub).
6. S.Malathi, M.Gopinath, " Sewage Sludge Removal Method through Arm-Axis by Machine Robot" Advances in Intelligent Systems and Computing, Springer, Vol.940, 2019.
7. R. Ajith Krishna, A. Ashwin, S. Malathi, "A Lucrative Sensor for Counting in the Limousine", Lecture Notes in Computational Vision and Biomechanics, Springer, Vol.30, pp. 515-523 , 2019.
8. S Malathi, M Sangeetha, "Test Suite Sequencing Using Dependency Structure Matrix", Advances in Engineering Research, Atlantis Press ,Vol. 142, pp. 116-121, 2018.
9. S Malathi K P Ashvitha, M ShilpaAarthi, M R Thamizhkkanal, M Rajendiran, " Hybrid Segmentation and 3D Modeling of Pleural Effusion on CT", Advances in Engineering Research, Atlantis Press,Vol. 142, 2018.
10. S. Malathi, M. Sumithra, "A Survey on Medical Image Segmentation Methods with Different Modalities", International Journal of Engineering Research & Technology, Vol. 6, no. 2, 2018.
11. S. Gomathi, S.Malathi, " On Building a Mobile Based Cloud Infrastructure for Rural School Development", International Journal of Engineering Research & Technology, vol. 7, no. 5, May 2018.
12. Pavithra.P, S.Malathi, "Online Learning in Cloud Technologies using U-Learning", International Journal of Engineering Research & Technology, vol. 7, no. 5, May 2018(ISSN: 22780181).
13. S.V.Hemalatha, S.Malathi," Auction Based Patient Health Detection Scheme Using Group Management Techniques in Wireless Sensor Networks", International Journal of Engineering Science and Computing vol. 8,no. 6 , June 2018.
14. VD Ambeth Kumar, VD Ashok Kumar, M Ramakrishnan, S Malathi, A Govardhan, " Efficient routing for low rate wireless network-a novel approach", International Journal of Image Mining, Vol. 2, no. 2-3, pp. 208-230, 2017.
15. Melvina J.S.M, Mandava Nikhita Santhoshi, S.Malathi, "Secure Image Transmission By Lossless Secret Fragment Mosaic Image Creation In Videos" in the Middle-East Journal of Scientific Research, Vol. 24 (S1): pp.212-219, 2016. (DOI: 10.5829/idosi.mejsr.2016.24.S1.42).

16. S.Malathi,V.D.Ambeth Kumar, Ramakrishnan and V.D.Ashok Kumar,”Performance Improvement using an automation system for recognition of multiple parametric features based on human footprint”, Kuwait Journal of Science, Vol.42, Is.1, pp.109-132, 2015.(A-I).
17. S.Malathi, V.D.Ambeth Kumar, V.D.Ashok Kumar and P.Kannan, “Performance Improvement using an automation system for segmentation of multiple parametric features based on human footprint”, Journal of Electrical Engineering and Technology” Journal of Electrical Engineering and Technology, Vol.10,No.4,Pg. 1815-1821,July 2015.(A-I).
18. S.Malathi, V.D.Ambeth Kumar, S.Gokul Amuthan and G.Vineeth Raj, “ Automatic fall Detection and Alerting using an Android Smartphone”, in the International Journal of Applied Engineering Research(IJAER), Volume 10, Number 10, pp.9738-9743, 2015(A-II).
19. S.Malathi and S.Sridhar , “Effort Estimation in Software Cost using Team Characteristics Based on Fuzzy Analogy Method – A Diverse Approach”, (LNICST)-Lecture Notes in Computer Science(LNCS) Springer Sub series Journal, 2014.(A-II)
20. S.Malathi and S.Sridhar, “How to Assess Software Cost Estimation to Develop an Effective Integrated Approach” International Journal of Innovative Technology and Research(IJITR),pp.747-751, Jan.2014.
21. S.Malathi, Subedha. V, Sridhar S and (2014), “On generalized Reusable Verification Environment Based Testing”, International Journal of Innovative Technology And Research(IJITR), Volume No.2, Issue No. 1, December – January 2014, pp. 740 - 747.
22. S.Malathi and Ligin.B.S “ An efficient method for the estimation of effort in Software Cost” International Journal of Advance Research in Computer Science and Management Studies, Vol.2,Issue 2,pp.330-335,2014.
23. S.Malathi, B.S.Ligin, G.Arun Kumar and S.Manikandan,” Vector field Convolution for Segmentation and Measurement of Pleural Effusion” International journal of Innovative Research in Science, Engineering and Technology, Vol.3,Issue 3, March 2014. .(A-II)
24. S.Malathi, V.D.Ambeth kumar,V.D, Ashok Kumar and P.Jagadeesh, “Intruder Identification using Footprint Recognition with PCA and SVM Classifiers”, International Journal of Advanced Materials Research, Vol.984-985, pp 1345-1349,July,2014.(A-II)

25. S.Malathi, Anitha.V and Abinaya.R, “ Video monitoring using Spatio-temporal model and alert system for security”, International Journal of Intelligent Information Technologies(IJIT)(Accepted for publication).

## International Conferences

1. S. Malathi and M. Sumithra , " Integration of Wavelet and ROI Based Fuzzy K-Means for MRI-CT Segmentation", International Conference on Intelligent Computing and Control Systems (ICICCS), Vaigai College of Engineering, Madurai, 16th May 2019,
2. S. Malathi and M.Sangeetha, " Sequencing of Module and Prioritization of Test Cases using dependency structures matrix", IEEE International Conference on smart structures and Systems(ICSSS), Saveetha Engineering College, Chennai, 14<sup>th</sup> and 15<sup>th</sup>, March 2019.
3. R. Ajith Krishna, A. Ashwin, S. Malathi, " A Lucrative Sensor for Counting in the Limousine", in the International Conference on ISMAC - CVB in Computational Vision and Bio-Engineering (ISMAC - CVB), held at Scad Institute of technology, Ciombatore, April 30th, 2018.
4. M Gobinath, S Malathi, " Sewage Sludge Removal Method Through Arm-Axis by Machine Robot", in the International Conference on Intelligent Systems Design and Applications, held at VIT University on Dec.6-8, 2018.
5. Yaagesh Prasad.P, S Malathi, " M-Voting With Government Authentication System", in the International Conference On Innovations In Engineering, Technology & Sciences( ICIETS 2018) held at NIE Institute of Technology,Mysore, 20-21 Sep 2018.
6. Shilpa Aarthi, S Malathi, "Techniques For Early Detection Of Tuberculosis - A Survey Report", in the International Conference On Intelligent Computing And Sustainable System(ICICSS 2018) held at Akshaya College Of Engineering And Technology, Coimbatore, 20-21 Sep 2018.
7. Savitha N and S Malathi , " Survey On Fire Safety Measures For Industry Safety Using IoT", in the International Conference On Communication And Electronics Systems(ICCES 2018) held at PPG Institute Of Technology, Coimbatore, Oct.15-16, 2018.
8. Divya S and S Malathi, "Preventing Web Application to Avoid Illegal Entry Of Hackers - A Review" in the International Conference On Communication And Electronics Systems(ICCES 2018) held at PPG Institute Of Technology, Coimbatore, October 15-16, 2018

9. S.Sathya Venkateshwaran and S Malathi, "Humanoid Robot: A Survey On Communication Tracking, And Voice Recognition" in the International Conference On Inventive Computation Technologies(ICICT-2018) held at RVS Technical Campus, Coimbatore, Nov. 15-16, 2018.
10. Melvina J.S.M, Mandava Nikhita Santhoshi & S.Malathi, "Secure Image Transmission By Lossless Secret Fragment Mosaic Image Creation In Videos", in the International Conference on Innovative & Emerging Trends In Engineering And Technology(ICIETET'16) at Panimalar Institute of Technology on 7<sup>th</sup> May 2016.
11. S.Malathi, V.D.Ambeth Kumar, S.Gokul Amuthan and G.Vineeth Raj, " Automatic fall Detection and Alerting using an Android Smartphone", International Conference on Innovative Strategies in renewable Energy and its application(ISREA), 2015.
12. S.Malathi, V.D.Ambeth kumar and P.Jagadeesh, "Intruder Identification using Footprint Recognition with PCA and SVM Classifiers", International Conference on Recent Advances in Mechanical Engineering and Interdisiplinary Developments(ICRAMID), Ponjesly College of Engineering, Nagercoil, March 2014.
13. S.Malathi, T.Ramya and G.Pratheeksha, "Mail Notification for missed calls and SMS in Android Phones", 3<sup>rd</sup> IEEE International Conference on Communication and Signal Processing(ICCSP-14), Adiparashakthi Engineering College,Mellmaruvathur,pp.163-167, April 5<sup>th</sup>,2014.
14. S.Malathi, S.Nishanthini and M.Abinaya, " Smart Video Surveillance System and Alert with Image Capturing using Android Smart Phones", IEEE International Conference on Circuit, Power and Computing Technologies(ICCPCCT), Nooral Islam University, Nagercoil,pp.1714-1722, 2014.
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16. S.Malathi, T.Ramya and G.Pratheeksha, "Personalized authentication procedure for restricted web service access in mobile phones" Fifth IEEE International Conference on the Applications of Digital Information and Web Technologies (ICADIWT), Amritha University, Bangalore, pp.69-74,17-19 Feb. 2014.
17. S.Malathi, Anitha.V and Abinaya.R, " Video monitoring using Spatio-temporal model and alert system for security", International Conference on Intelligent Information Technologies(ICIIT), Anna University, Chennai, pp.328-336, Dec.11-13,2014.

## **National Conferences**

1. S. Malathi and S.Vinitha, " A productive technique for detecting Tuberculosis-A survey", National Conference on Communication Systems(NCOCS), National Institute of Technology, Puducherry, 21<sup>st</sup> Sep.2019.
2. S.Malathi, V.D.Ambeth Kumar, V. Subedha,"Cryptography Based Sheltered Data Sharing For Military Networks ", in the 2<sup>ND</sup> National Conference on Innovative & Emerging Trends in Engineering and Technology(NCIETET)held at Panimalar Institute of Technology on 14th May, 2015
3. S.Malathi, V.D.Ambeth Kumar, V. Subedha , "Location Monitoring System Using Android Smart Phones """, in the 2<sup>ND</sup> National Conference on Innovative & Emerging Trends in Engineering and Technology(NCIETET)held at Panimalar Institute of Technology on 14th May, 2015.