

Resume

Dr.G.Malathi

Associate Professor Senior

Imaging and Computer Vision Research Group Chair

School of Computer Science and Engineering

Vellore Institute of Technology

Chennai, Tamil Nadu, India

Official Email: malathi.g@vit.ac.in

Personal Email: dr.malathi.vitcc@gmail.com

Mobile: 9840833337



Patents Filed and Published:

1. AN AXIOMATIC TECHNIQUE FOR DETECTING THE DEGRADATIONS IN SYNTHETIC APERTURE RADAR (SAR) IMAGES, published on 25th September 2020
2. Novel Hand Wrist Biometrics , Oct 2018, The Patent Office, Govt of India, Intellectual Property Rights Building, Guindy, Chennai, Tamil Nadu, India

Research Publications:

1. G. Malathi, Sanjana Dulam , Varsha Ramesh, Tongue Image Analysis for Covid-19 Diagnosis and Disease Detection, International Journal of Advanced Trends in Computer Science and Engineering, Vol, 9, Issue 5, **October 2020**, 7924-7928, ISSN: 2278-3091
2. G Malathi , Dinesh Mavaluru , Karthik Srinivasan , and Jayabrabu Ramakrishnan, IRIS PATTERN RECOGNITION: A QUANTITATIVE REVIEW ON HOW TO IMPROVE IRIS-BASED PAT, International Transaction Journal of Engineering, Management, & Applied Sciences & Technologies. Volume 11 No.15 ISSN 2228-9860 eISSN 1906-9642, pp 1 - 13, **September 2020**, CODEN: ITJEA8 Paper SCI Journal ID:11A15Q <http://TUENGR.COM/V11B/11A15Q.pdf> DOI: 10.14456/ITJEMAST.2020.305
3. 2020 International Conference on Computing and Information Technology, University of Tabuk, Kingdom of Saudi Arabia. Volume: 01, Issue: ICCIT- 1441, **September 2020**, Page No.: 388 – 391,
4. G.Malathi, S.Rajkumar, An efficient image classification technique for Synthetic Aperture Radar (SAR) images, published in International Journal of Advanced Trends in Computer Science and Engineering (IJATCSE),**June 2020**, Vol.9,issue 3,pp.3015-3022.
5. G.Malathi , A.Y. Mohamed Ibrahim, A study on stress based emotional state detection using EEG signals, International Journal of Scientific and Technology Research, vol 9, issue 4, pp 910-913, **April 2020**, ISSN: 2277-8616
6. G.Malathi, Aditya Chitlangia, Handwriting Analysis based on Histogram of Oriented gradient for predicting personality traits using SVM, Procedia Computer Science, 165,2020,384-390, **February 2020**
7. G.Malathi , M.Diviya , A.Karmel, Regression Based Model for Prediction of Heart Disease Recumbent, International Journal of Recent Technology and Engineering, Vol 8, Issue 4, **November 2019**, 6639-6642
8. Malathi . G , Rajkumar Murugesan , S . K . Sudarsanam, V. Vijayakumar , Neelanarayanan .V,Venugopal . R , D. Rekha , Sumit Saha , Rahul Bajaj , Atishi Miral , Malolan V , Artificial

- Intelligence and Agriculture 5. 0, International Journal of Recent Technology and Engineering , Volume-8 Issue-2, **July 2019**, 1870-1877
9. Malathi G, S.Rajkumar, Impact of Image Artifact and Solution to the Image Quality Issues in Real Time SAR images, Mobile Networks and Applications , **April 2019**, **Impact Factor: 2.497**
 10. Malathi G et al, Image Processing Based Edibility Analysis of Spinach Leaves using Machine Learning Approach, International Journal of Recent Technology and Engineering, Volume 7, Issue 6, **March 2019**, pp. 2097–2101
 11. GokulaKrishnan E, Malathi G, Contactless Novel Hand Wrist Biometrics Feature Detection Using Surf, International Journal of Civil Engineering and Technology (IJCET) 9(11), **2018**, pp. 1102–1114
 12. G.Malathi, S.Rajkumar, 'An efficient image denoising approach for the recovery of impulse noise', Bulletin of Electrical Engineering and Informatics, Volume 6, Issue 3, **September 2017**, pp 281-286.
 13. S.Rajkumar ,G.Malathi, D.Vinoth Kumar, "An Axiomatic Image Enhancement Algorithm in the Field of Image Processing Application", International Journal of Control Theory and Applications, Vol.9,No.51, **2016**,pp.187-193
 14. G.Malathi, 'Image Fusion Techniques for the Assessment of Multi-focus Ultrasound Placenta using Quality Metrics', International Journal of Applied Engineering Research, Vol. 10, pp. 30761 – 30774, **November 2015**, ISSN : 0973-4562. IF(0.66)
 15. S.Rajkumar, G.Malathi, 'A Novel approach for the recovery of de-focussed color Images', International Journal on Recent Researches in Science Engineering and Technology, Vol. 3, Issue 5, **January 2015**, ISSN : 2347 – 6729, SJR(1.46)
 16. G. Malathi, Dr.V.Shanthi, 'Statistical Measurement of Ultrasound Placenta Images Complicated by Gestational Diabetes Mellitus Using Segmentation Approach', Journal of Information Hiding and Multimedia Signal Processing, Vol. 2, No. 4, pp. 332-343, **October 2011**, ISSN : 2073-4212.

Book Chapter Publication:

- Authored “A Survey on Multi-feature Hand Biometrics Recognition” in a book “Computational Vision and Bio Inspired Computing” published bySpringer, pg. 1061-1071, **Feb 2018**
- Authored “ Wavelet Image Fusion Approach for Classification of Ultrasound Placenta Complicated by Gestational Diabetes Mellitus” in a book “Pathophysiology and Complications of Diabetes Mellitus” published by Intech, Edited by Oluwafemi O. Oguntibeju, Year of publication: **2012**

Dr.G.Malathi