

PUBLICATIONS OF Dr. SHEEJA V FRANCIS

I. BOOK CHAPTER PUBLICATION

- **Sheeja V Francis**, M.Sasikala, Sandeep D Jaipurkar (2017) '**Detection of Breast Abnormality Using Rotational Thermography**', In *Eddie YK Ng , Mahnaz Etehadtavakol* (Eds.) '**Applications of Infrared to Biomedical Sciences**' (pp 133 – 158) Singapore, **Springer** Singapore.

II. JOURNAL PUBLICATIONS

1. **Sheeja V Francis**, G. Ravindran, K.Visvanathan, K.Ganapathy, 'Screening for unilateral intracranial abnormalities using near infrared spectroscopy. A preliminary report', *Journal of Clinical Neuroscience* (2005);12(3):291-295. **Churchill Livingstone Publishers, USA.**
2. **Sheeja V Francis**, M. Sasikala, 'Automatic detection of abnormal breast thermograms using asymmetry analysis of texture features', *Journal of Medical Engineering & Technology* (2013); 37(1): 17–21. **Francis & Taylor publications.**
3. **Sheeja V Francis**, M. Sasikala,S.Saranya, 'Detection of Breast Abnormality from Thermograms Using Curvelet transform Based Feature Extraction' *Journal of Medical Systems*. April (2014) ; 38(4) : article no 23: 1-9.
DOI: 10.1007/s10916-014-0023-3- Springer USA publications.
4. **Sheeja.V.Francis**, M.Sasikala, G.Bhavani Bharathi, Sandeep D. Jaipurkar, 'Breast Cancer Detection in Rotational Thermo Mammography images using Texture Features', *Infrared Physics & Technology*, November (2014); Vol 67: 490-496.
DOI: 10.1016/j.infrared.2014.08.019, Elsevier Publications.Netherlands.
5. N.Punitha, **Sheeja.V.Francis**, M.Sasikala (2015) Cancer Detection in Rotational Breast Thermograms using Bispectral Invariant Features. *International Journal of Applied Engineering Research*, 10 (60):138-142. **Research India Publications, India.**
6. **Sheeja.V.Francis**, N.Punitha, M.Sasikala (2016) Cancer Detection in Rotational Breast Thermography Images using Bispectral Invariant Features. *Journal of Chemical and Pharmaceutical Sciences*, 9 (4):2189-2194. **SPB Pharma Society, India.**

7. **Sheeja V Francis and Sasikala M**, “Computer Aided Screening System for Breast Cancer using Rotational Thermography and Curvelet Co- occurrence Features”, International Journal of Current Engineering and Scientific Research, Vol.5, No.2 pp 77 – 86. February, 2018.
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8. **Sheeja V Francis, M. Sasikala**, ‘Segmentation of abnormal regions in breast Thermograms using Curvelet transform and morphological image processing’. Journal of Science, Technology & Management (2013); 6(4): 25–28.
ISSN 0974-8334, A MACFAST PUBLICATION, India.

III. CONFERENCE PUBLICATIONS

1. **Sheeja V Francis, Dr.G.Ravindran, Dr.K.Visvanathan, Dr.K.Ganapathy**, ‘A Non invasive Neurosignal Processing Method Using Near Infrared Spectroscopy’, Proceedings of Seventh International Conference on Cognitive and Neural Systems, Boston University, May 29 – 31, 2003, Boston , USA. pp: 110.
2. **S. Shamamatul Amber, Sheeja V Francis, M. Sasikala**, ‘Detection of Breast Cancer Using Thermogram Images’, Proceedings of International Conference on Recent Trends in Computer Science and Engineering (ICRTCSE 2012), Apollo Engineering College, Kancheepuram, 3rd& 4th May 2012, pp:75.
3. **Vijayarani R, Sheeja V Francis, Sasikala M**, ‘Segmentation of Abnormal Region In Breast Thermogram Images using Contourlet transform and Watershed Algorithm’, 6th International conference on science, engineering and technology, VIT University, Vellore, May 7 – 8, 2013.
4. **Sheeja V Francis, M.Sasikala**, ‘Segmentation of Abnormal Regions in Breast Thermograms Using Curvelet Transform and Morphological Image Processing’. International Conference of Mathematical Modeling in Computer, Management and Medical Sciences 2013 (ICMCM 2013) ,MACFAST Kottayam June 13-15, 2013. Proc pp.no:167 -170.
5. **Vijayarani R, Sheeja V Francis, Sasikala M**, ‘Automatic segmentation of abnormal region in breast thermogram images’, National conference on recent enhancement in advanced computing technologies, RRASE college of engineering, Chennai, 17th April 2013.

6. S. Saranya, M. Sasikala, **Sheeja V Francis**, 'Feature extraction and classification of breast thermogram images', 5th National conference on signal processing, communications and VLSI design, Anna University Regional Centre, Coimbatore. May 10 – 11, 2013.
7. Bhavani Bharathi G, **Sheeja V Francis**, Sasikala M, 'Feature Analysis for Abnormality Detection in Breast Thermogram Sequences Subject to Cold Stress', National Conference on Man Machine Interface, VIT University, Chennai, April 24 – 25, 2014.
8. **Sheeja.V.Francis**, M.Sasikala, "Feature Extraction in Spatial and Wavelet Domains for Screening of Breast Abnormality in Rotational Thermograms", International Conference on Recent Trends in Science, Engineering & Management, Karpaga Vinayaga College of Engineering and Technology, 10 & 11 March 2017.
9. *M.Lavanya, V.Meenakshi, B.Nandhini & Dr. Sheeja V Francis* , "Smart Restaurant - An Innovative Creation for Automatic Hotel Controlling Using PLC And SCADA" , In the procs. of national conference on Green Energy Technologies – Energy Management Instrumentation with Pre-Conference Workshop on Energy Audit – Case Studies and Best Practices, pp. 92 -97, April 27- 29, 2017.