List of publications:

1. Janani.A, Sasikala.M, Harleen Chhabra, Nijisha Shajil and Ganesan Venkatasubramanian, "Investigation of deep convolutional neural network for classification of motor imagery fNIRS signals for BCI applications", Biomedical Signal Processing and Control, published by Elsevier.Vol. 62, pp. 102133 (1-10) (2020).

2. J.Saminathan, M.Sasikala, VB.Narayanamurthy, K.Rajesh and R.Arvind, "Computer aided detection of diabetic foot ulcer using asymmetry analysis of texture and temperature features",Infrared Physics & Technology, published by Elsevier. Vol. 105, Issue 2, pp. 1-7 (2020).

3.Nijisha Shajil, Sasikala Mohan, Poonguzhali Srinivasan, Janani Arivudaiyanambi & Arunnagiri Arasappan Murrugesan, "Multiclass Classification of Spatially Filtered Motor Imagery EEG Signals Using Convolutional Neural Network for BCI Based Applications", Journal of Medical and Biological Engineering, published by Springer. (2020).

4.Janani Arivudaiyanambi, Sasikala Mohan , Sunaina Mariam Cherian and Kumaravel Natesan,"Design of a wearable four-channel near-infrared spectroscopy system for the measurement of brain hemodynamic responses", Biomedical Engineering / Biomedizinische Technik (BMT),published by Walter de Gruyter GmbH. (2020).

5.K. Yamuna Devi, M.Sasikala, " Labeling and clustering-based level set method for automated segmentation of lung tumor stages in CT images ", Journal of Ambient Intelligence and Humanized Computing, published by Springer. (2020).

6. A. Usha, Nijisha Shaji, M. Sasikala., " Automatic Anisotropic Diffusion Filtering and Graph-search Segmentation of Macular Spectral-domain Optical Coherence Tomographic (SD-OCT) Images", Current Medical Imaging Reviews, published by Bentham Science Publishers. Vol. 15, Issue 3, (2019).

7. A Janani, M Sasikala, "Evaluation of classification performance of functional near infrared spectroscopy signals during movement execution for developing a brain–computer interface application using optimal channels", Journal of Near Infrared Spectroscopy, published by SAGE Publisher. Vol. 26, Issue 4, pp. 209-221 (2018).

8.Janani Arivudaiyanambi, Sasikala M, "Multiclass classification of fNIRS signals using sequential projection-based metacognitive learning in a radial basis function network for BCI applications" presented in a International level conference on fNIRS 2018, organised by The University of Tokyo, Japan from 05-Oct-2018 to 08-Oct-2018.

9.Janani.A and Sasikala.M, "Classification of fNIRS Signals for Decoding Right- and Left-Arm Movement Execution Using SVM for BCI Applications" presented in a International level conference on Nextgen Electronic Technologies: Silicon to Software, organised by VIT, Chennai, India from 23-Mar-2017 to 25-Mar-2017.

10.A.Janani and M.Sasikala, " Investigation of different approaches for noise reduction in functional near-infrared spectroscopy signals for brain-computer interface applications", Journal of Neural Computing and Applications, published by Springer. Vol. 28, Issue 10, pp. 2889-2903 (2017).

11.S.Poonguzhali, P.Ravichandran, M.Sasikala , Ashwin K Whitchurch, A.Rajan, "Design and development of ligature force measurement system for whipples surgery", Biotechnology and Biomedical sciences , Vol. 2, Issue 1, pp. 48-50 (2016).

12.Anishiya P and Sasikala M, " Statistical texture feature set based classification of histopathological images of stomach adenocarcinoma", Biomedical Research - An International Journal of Medical Sciences, published by Biomedical Research. pp. S80-S86 (2016).

13.Arockiasamy Petrishia, Mohan Sasikala, "Design of PSR with Different Feed Configurations and Partition Lens System for Skin Cancer Treatment.", Applied Computational Electromagnetics Society Journal, published by ACES JOURNAL. Vol. 31, Issue 10, pp.1193-1201 (2016).

14.A Petrishia, M Sasikala, "Design of PSIRA with Focusing Lens Concentrating picosecond Impulse on Biological Target", Technology and Health Care, published by IOS press. Vol. 24,Issue 4, pp. 523-539 (2016).

15. Petrishia.A, Sasikala.M, " Design of Compact Electromagnetic Impulse Radiating Antenna for Melanoma Treatment", Electromagnetic Biology and Medicine, published by TAYLORE AND FRANCIS, UK. Vol. 35, Issue 2, pp. 134-142 (2016).

16. P.Anishiya , M.Sasikala, "Segmentation and localization of epithelial cells in the histopathological images of stomach adenocarcinoma" presented in a International level conference on Wireless Communications, Signal Processing and Networking (WiSPNET), organised by Sri Sivasubramaniya Nadar College of Engineering, Chennai-603110, India from 23-Mar-2016 to 25-Mar-2016.

17.S.Poonguzhali, M.Sasikala, "Design and Development of Ligature Force Measurement System for Whipples Surgery" presented in a International level conference on Public Health: Issues, Challenges, Opportunities, prevention, awareness, India from 15-Jan-2016 to 16-Jan-2016.

18.Petrishia.A , Sasikala.M, " Molecular Simulation of Cell Membrane Deformation by Picosecond Intense Electric Pulse", The Journal of membrane biology, published by Springer. Vol. 248,Issue 6, pp. 1015-1020 (2015).

19.Petrishia.A , Sasikala.M, "Partition Lens System For Focusing Field From PSIRA With TSVS Feed On Biological Target", Journal of Electromagnetic Waves and Applications, published by Taylor & Francis. Vol. 29, Issue 17, pp. 2293-2307 (2015).

20. Allwyn S. Rajamani, Ashwin Rammohan , Sasikala Mohan, Poonguzhali Srinivasan, Shanmugam Arthanari, Umamaheshwaran Muthusamy, Vijayanand Sivasubramanian, Palaniappan Ravichandran, "Prospective Evaluation of Innovative Force Assessing Firmware in Simulation to Improve the Technical Competence of Surgical Trainees", World Journal of Surgery, published by Springer. Vol. 40, Issue 14, pp. 773-778 (2015).

21. A Petrishia, M Sasikala, "Subnanosecond Pulsed Intense Electromagnetic Field Radiators for Non-invasive Cancer Treatment" presented in a International level conference on IEEE BioSignal Analysis, Processing and Systems (ICBAPS), organised by IEEE, India from 26-May-2015 to 26-May-2015.

22. Petrishia.A , Sasikala.M, "Design of Tapered Arm Impulse Radiating Antenna with Log Periodic Lens System for Skin Cancer Treatment", Journal of Medical Engineering & Technology,published by Taylor & Francis. Vol. 38, Issue 3, pp. 135-145 (2014).

23. Sheeja V Francis, M. Sasikala, " Breast Cancer detection in Rotational Thermography images using Texture features", Infrared Physics and Technology, published by Elsevier. Vol. 67, Issue 1, pp. 490-496 (2014).

24. Petrishia.A , Sasikala.M, "Impact of Intense Pico second Pulsed Electric Fields on Melanoma Cells by the Irradiation of UWB Antenna", International Journal of Innovative Research in Science, Engineering and Technology, published by IJIRSET . Vol. 3, Issue 3, pp. 647-651 (2014).

25. Sheeja V Francis, M. Sasikala, S.Saranya, "Detection of breast abnormality from thermograms using curvelet transform based feature extraction", Journal of Medical Systems, published by Springer. Vol. 38, Issue 4, pp. 1-9 (2014).

26. Sheeja V Francis and Sasikala M, " Automatic detection of abnormal breast thermograms using asymmetry analysis of texture features", Journal of Medical Engineering and Technology,published by Taylor and Francis. Vol. 37, Issue 1, pp. 17-21 (2013).

27. Reshmi G, Kumaravel N and Sasikala M., "A Brain Computer Interface System For Auto Piloting Wheelchair", ITSI Transactions on Electrical and Electronics Engineering, Vol. 1, Issue 4, pp. 86-90 (2013).

28. . Siddharth Nair and Sasikala M, "Vibro-Electrical Stimulation based Intra-ocular pressure and aqueous humor flow regulation in human eye" presented in a International level conference on Trends in Industrial Measurements & Automation, India from 15-May-2013 to 15-May-2013.

29. Reshmi.G , M.Sasikala, "Analysis and Classification of four class Motor Imagery based EEG" presented in a National level conference on Signal Processing, Communications and VLSI Design, organised by Anna University, Regional Center ,Coimbatore, India from 10-May-2013 to 11-May-2013.

30.S. Saranya, Sasikala M and Sheeja V Francis, "Feature extraction and classification of breast thermogram images" presented in a National level conference on Signal Processing, Communications and VLSI Design, organised by Anna University Regional Centre, Coimbatore, India from 10-May-2013 to 11-May-2013.

31.Vijayarani.R, Sheeja.V.Francis and Sasikala.M, "Segmentation of Abnormal Region In Breast Thermogram Images using Contourlet transform and Watershed Algorithm" presented in a International level conference on Science Engineering and Technology, organised by VIT University, Vellore, India from 07-May-2013 to 08-May-2013.

32.Nitheeswari P.K, Sasikala.M, "Thermal Analysis of Brest Model for Cancer Detection" presented in a International level conference on Science Engineering and Technology, organised by School of Electrical Engineering, VIT University, Vellore, India from 07-May-2013 to 08-May-2013.

33. Lenin . S,M.Sasikala, "Design of low cost Smart System to Detect Thyroid" presented in a National level conference on Recent Trends in Computer Applications and Technology, organised by Jaya Engineering College, India from 23-Apr-2013 to 23-Apr-2013.

34. Sasikala.M ,Petrishia.A,Duraisamy.M, "Enhanced Design of UWB Antenna with Dual Tapered Conical Wave Launcher for Biomedical Application" presented in a International level conference on Advances in computing and Communication, India from 18-Apr-2013 to 18-Apr-2013.