Dr.M.C.Jobin Christ
Email: drjobinchrist@gmail.com
M.C.Bhavan
Midalakkadu
Palappallam Post
Kanyakumari District – 629159
Tamilnadu
Phone: 91-98426-66844

List of Publications

1. Application of Bayesian Method in Medical Image Segmentation – published in TECHNIA, International Journal of Computing Science and Communication Technologies, Vol. 2, No. 1, July 2009, (ISSN : 0974-3375). **[Citation Index : 6]**

2. An Adaptive Mean-Shift Algorithm for MRI Brain Segmentation – published in International Journal of Engineering Science and Technology (IJEST), Vol. 3, No. 7, July 2011, (ISSN : 0975-5462). **[Citation Index : 3]**

3. Topology in Medical Image Segmentation – published in International Journal of Computer Science and Communication (IJCSC) Vol. 2, No. 2, July-December 2011, (ISSN :0973-7391).

4. Segmentation of Medical Image using Clustering and Watershed Algorithms – published in American Journal of Applied Sciences Vol. 8, No.12, 2011, (ISSN 1546-9239). **[Citation Index : 43] [DOI:10.3844/ajassp.2011.1349.1352] (Anna University-Annexure II)**

5. Medical Image Segmentation using Fuzzy C-Means Clustering and Marker Controlled Watershed Algorithm – published in International Journal of Modern Engineering Research Vol. 2, No.1, 2012, (ISSN 2249-6645). **[Citation Index : 2]**

6. Segmentation of Medical Image using K-Means Clustering and Marker Controlled Watershed Algorithm – published in European Journal of Scientific Research, Vol. 71, No.2, 2012, (ISSN 1450-216X). **[Citation Index : 32] (Anna University-Annexure II)**

7. Medical Image Segmentation using Sequential Hybrid Topology Preserving Map – published in International Journal of Engineering Research and Industrial Applications, Vol.5, No.2, May 2012, (ISSN 0974-1518).

8. Magnetic Resonance Brain Image Segmentation –published in International Journal of VLSI design & Communication Systems, Vol.3, No.4, pp.121-133, 2012 (ISSN 0976-1527).**[DOI : 10.5121/vlsic.2012.3411], [Citation Index : 14]**

9. Brain Tumors: An Engineering Perspective –published in International Journal of Computer Science Issues, Vol.9, Issue 4, No.3, pp.392-396, 2012, (ISSN 1694-0814). **[Citation Index : 2]**

10. Detection of brain tumor using hybrid topology preserving map – published in International Journal of Computer Applications, Vol.51, No.20, pp.29-31, 2012, (ISSN 0975-8887). **[Citation Index : 4]**

11. Application of Topology Preserving Map in Medical Image Segmentation - published in Advances in Computational Science and Technology, Vol.5, No.3, pp.149-153, 2012, (ISSN 0973-6107).

12. An improved brain image classification technique using topology preserving map – published in Wulfenia, Vol.20, No.2, 2013, (ISSN 1561-882X).

13. Automatic lesion segmentation of multiple sclerosis in MRI images using supervised classifier, International Journal of Advanced Research in Electrical, Electronics and Instrumentation Engineering, Vol. 2, No.12, 2013, (ISSN 2320 - 3765). **[Citation Index : 1]**

14. Segmentation of brain tumors using meta heuristic algorithms – published in Open Journal of Communications and Software, Vol. 1, No.1, 2014, (ISSN 2374-510X). **[DOI:10.15764/CS.2014.01001], [Citation Index : 7]**

15. An ultra-low power ECG acquisition and monitoring system for WBAN applications, International Journal of Advanced and Innovative Research, Vol. 3, No.2, 2014, (ISSN 2278-7844).

16. A survey of swarm based bio-inspired optimization algorithms for brain tumor segmentation, International Journal of Advanced and Innovative Research, Vol. 3, No.2, 2014, (ISSN 2278-7844).

17. Automatic brain tumor segmentation by variational minimax optimization technique, International Journal of Innovative Research in Sciences, Engineering and Technology, Vol. 3, No.2, 2014, (ISSN 2319 - 8753). **[Citation Index : 1]**

18. A Novel Algorithm for Detection and Classification of Brain Tumors, International Journal of Computational Intelligence and Applications, Vol. 14, No.1, 2015, (ISSN 1757-5885). **[DOI: 10.1142/S1469026815500066] (Anna University-Annexure II)**

19. Design of a PC-Based Respiration Rate and Temperature Recorder as Internet Appliance, International Journal for Scientific Research & Development, Vol. 3, No.1, 2015, (ISSN 2321-061).

20. Design of a PC-Based ECG Recorder as Internet Appliance, International Journal of Applied Engineering Research, Vol. 10, No.18, 2015, (ISSN 0973-4562). **(Anna University-Annexure II)**

21. Clown fish queuing and switching optimization algorithm for brain tumor segmentation, Biomedical Research, Vol.27, No.1, 2016, (ISSN 0970-938X) **(Anna University-Annexure I) [Citation Index : 2]**

22. Treatment of Paraplegia using Electric Current based on Weight Distribution, International Journal of Advanced and Innovative Research, Vol.5, No.3, 2016, (ISSN 2278-7844).

23. A GSM based Wearable Physiological Parameters Monitoring System, International Journal of Advanced Research in Biology Engineering Science and Technology, Vol.2, No.3, 2016, (ISSN 2395-695X). **[DOI: 10.20238/IJARBEST.2016.0203008]**

24. Wearable Epilepsy Monitor for Seizure Detection and Transfer of Data using GSM Module, International Journal for Scientific Research & Development, Vol.5, No.2, 2017, (ISSN 2321-0613).

25. An Infant Monitoring System and Automatic Cradle Swinging, International Journal for Scientific Research & Development, Vol.5, No.2, 2017, (ISSN 2321-0613).

26. Eye Vision Test using Ultrasonic Measurement via Wireless Technique, International Journal for Scientific Research & Development, Vol.5, No.4, 2017, (ISSN 2321-0613).
27. Detection of Septic Arthritis using Meta Heuristic Algorithms, Journal of Arthritis, Vol.6, No.6, 2017 (ISSN:2167-7921).**[DOI: 10.4172/2167-7921.1000259]**
28. Retrofitting the Public Transport System for Visually Impaired Users in Smart Cities, International Journal of Advanced Research in Management, Architecture, Technology and Engineering, Vol.3, No.12, 2017 (ISSN:2454-9762).
29. Early Stage Detection of Psoriatic Arthritis Using SPECT and FDG-PET/CT, Journal of Arthritis, Vol.7, No.1, 2018 (ISSN:2167-7921).**[DOI: 10.4172/2167-7921.1000263]**
30. Wearable Device for Monitoring of slow Wave Sleep Stage of insomnia Patients, Journal of Medical and Clinical Research Reports, Vol. 1, No. 1, 2018.
31. A Novel Approach for Non-Contact Heart Rate Measurement, Biomedical & Pharmacology Journal, Vol. 12, No.3, 2019 **(Scopus Indexed)**
32. Low cost loT based Remote Monitoring System and ECG Analysis, Journal of Computational and Theoretical Nanoscience. **(Scopus Indexed)**
33. Comparative Analysis of Power by Incorporating Flipflops in PID Controller, Journal of Electrical Engineering. (**Anna University Annexure**)
34. Preclinical Diagnosis of Asthma with GMR Sensor and RADWT, Journal of Ambient Intelligence and Humanized Computing. (**SCI & Scopus Indexed**)
35. Study of Flexor Carpi Ulnaris (FCU) Muscle Strength in Dominant and Non-dominant Hands in Various Hand Postures, International Journal of Psychosocial Rehabilitation. (**Scopus Indexed**)

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Patents

1. **Water Management Device and System thereof**, Intellectual Property India, [**Ref.No. 201641033042, Journal No. - 42/2016**, Date of Filing : 27/09/2016, Publication Date : 07/10/2016]
2. **Deep Learning based Retinal Microvascular Measurement of Eye**, Intellectual Property India, [**Ref.No. 201941040242 A, Journal No. - 42/2019**, Date of Filing : 04/10/2019, Publication Date : 18/10/2019]

Conference Papers

1. Image Inpainting – Presented at Noorul Islam College of Engineering, Thuckalai, Tamil Nadu.
2. Applications of Wavelet Transform in Image Processing – Presented at Vivekananda College of Engineering, Tiruchengode, Tamil Nadu.

3. Topological Constraints in Segmentation of Brain Images – Presented in IPCVPR'09, Las Vegas Nevada, USA. **[Citation Index : 1]**
4. Teacher – Learner Relationship in Education - Presented at SRM University, Chennai, Tamil Nadu.
5. Magnetic Resonance Brain Image Segmentation - Presented at Dayananda Sagar College of Engineering, Bangalore.
6. Fuzzy C-Means Algorithm for Medical Image Segmentation – Presented at IEEE International Conference on Electronics Computer Technology, Kanyakumari, Tamil Nadu.**[DOI: 10.1109/ICECTECH.2011.5941851], [Citation Index : 11]**
7. Medical Image Segmentation using Self-Organizing Map – Presented at Bannari Amman Institute of Technology, Sathy, Tamil Nadu.
8. A Survey on MRI Brain Segmentation - Presented in the international conference on Signal, Image Processing & Pattern Recognition, May 25-27, 2012, New Delhi. **[DOI: 10.1007/978-3-642-30157-5_18], [Citation Index : 1]**
9. Design of a PC based ECG Recorder as Internet Appliance – Presented in the international conference on Innovations in Electronics, Instrumentation, Biomedical and Computing Technologies, March 23-24, 2015, Adhiyamaan College of Engineering, Hosur.
10. A Review on Analysis of Cognitive Functions using Different Techniques – Presented in the International Conference on Materials, Engineering-devices and Energy-efficient Technologies, MEETCON 2017, October,2017, St.Xavier's Catholic College of Engineering, Nagercoil.
11. Analysis of Brain Activity of Hearing Impaired People during Learning Environment - Presented in the National Conference on "Emerging Trends in Engineering and Technology (NCETIET 2k18)" at Arunachala College of Engineering for Women, Nagercoil during 28 & 29 September, 2018.
12. Flow Dynamic Analysis of Abdominal Aortic Aneurysm- Presented in the National Conference on "Emerging Trends in Engineering and Technology (NCETIET 2k18)" at Arunachala College of Engineering for Women, Nagercoil during 28 & 29 September, 2018.
13. Low Cost IoT based Remote Monitoring System and ECG Analaysis – Presented in the International Conference on Smart Structures and Systems (ICSSS 2018), October 16, 2018, Saveetha Engineering College, Chennai. **[Received best paper award].**
14. Classification of EEG Signals of Different Sleep Abnormalities using Neural Networks - Presented in an International Conference on Recent Advances in Engineering, Technology and Applied Sciences (ICRAETAS-2K19) during 22.03.2019 & 23.03.2019 at Aruncahala College of Engineering for Women, Nagercoil.
15. Non-contact Heart Rate Measurement - Presented in a second national conference on Recent Trends in Biomedical Engineering during 06.03.2019 & 07.03.2019 at Adhiyamaan College of Engineering, Hosur.
16. Stomach Motility Analysis using Digital Pill - Presented in the ninth National Conference on Latest Issues in Information Technology on 02.04.2019 at RMD Engineering College, Chennai.

17. Classifying EEG Signals of Different Sleep Abnormalities using Neural Networks - Presented in the ninth National Conference on Latest Issues in Information Technology on 02.04.2019 at RMD Engineering College, Chennai.
18. An Efficient MIMO Scheduling Techniques for Channel Decomposition in Multiuser Access Communication in the Fifth National Conference on Emerging Trends in Engineering Technology & Applied Research on 17.05.2019 at MS Engineering College, Bengaluru.
19. An Efficient MIMO Scheduling Techniques for Channel Decomposition in Multiuser Access Communication in the First International Conference on Emerging Trends in Engineering, Innovative Science and Management on 18.05.2019 at East West Institute of Technology, Bengaluru.

Posters
1. Medical Image Segmentation under Topological Constraints - Presented at SRM University, Chennai, Tamil Nadu.