



Avinashilingam Institute for Home Science and Higher Education for Women

(Deemed to be University Estd. u/s 3 of UGC Act 1956, Category A by MHRD)
Re-accredited with A++ Grade by NAAC. CGPA 3.65/4, Category I by UGC
Coimbatore - 641 043, Tamil Nadu, India

Department of Biomedical Instrumentation Engineering

Journal Publications 2015-2023

S.No	Name of the Author	Title of Paper Published	Name of the Journal	Volume/Issue/ pp./year
1.	Dr. Judith Justin	Comparative Analysis on De-Noising of MRI Uterus Image for Identification of Endometrial Carcinoma	Frontiers in Biomedical Technologies ISSN: 2345-5837	Vol. 10, No. 3 pp. 299-307 2023
2.	E. Smily Jeya Jothi, Judith Justin, R. Vanithamani,	On-mask sensor network for lung disease monitoring	Elsevier - Biomedical Signal Processing and Control ISSN: 0045-7906	Vol. 83, pp.1-12 2023
3.	Dr. Judith Justin	Computational Intelligence for Speech Enhancement using Deep Neural Network	Computer Assisted Methods in Engineering and Science, [S.I.] ISSN 2956-5839	Vol. 29, No. 1-2, pp. 71-85, 2022.
4.	Dr. R. Shijitha	Heart Disease Prediction Using Logistic Regression	Journal of Coastal Life Medicine ISSN:2309-6152	Vol. 11, No.1, pp. 573-579 2023
5.	Dr. R. Vanithamani	Enhancement of PAPR Abatement for FBMC System	International Journal of Intelligent Systems and Applications in Engineering ISSN: 2147-6799	Volume 11, Issue 1, pp.239 - 245 2023

6.	Dr. R. Vanithamani	Priority Based Reliable Health Care Data Communication in WBAN	International Journal of Advanced Research in Basic Engineering Sciences and Technology (IJARBEST) ISSN: 2456-5717	Vol.8, Issue.7, pp.139-143 2022
7.	Dr. E. Smily Jeya Jothi,	A photoplethysmography-based diagnostic support system for obstructive sleep apnea using deep learning approaches	Elsevier - Computers and Electrical Engineering ISSN: 0045-7906	Vol.102, 2022 pp.1-12
8.	Dr. R. Vanithamani	Segmentation of Intima–Media Thickness in Intravascular Ultrasound Images for Detection of Atherosclerosis	Biomedical and Pharmacology Journal ISSN: 2367-3389	Vol.-15, Iss.3, pp. 1539-1549 2022
9.	Dr. E. Smily Jeya Jothi	Deep transfer learning approach for obstructive sleep apnea classification with photoplethysmography signal	Frontiers in Artificial Intelligence and Applications, ISSN: 0922-6389	pp.84-93 2023
10.	Dr. R. Vanithamani	Different Energy Harvesting, Energy Saving Techniques to Improve Battery Energy of Wireless Sensor Networks-A Review	Stochastic Modelling and Applications ISSN: 0972-3641	Vol.8, Iss.3, pp.72 – 83 2022
11.	Dr. Judith Justin	Enhancement of Single Channel Speech Quality and Intelligibility in Multiple Noise Conditions using Wiener Filter and Deep CNN	Soft Computing, Springer ISSN: 1433-7479	pp.1-11, 2021
12.	Mrs. R. Shijitha	Efficient Neuron Segmentation and	Journal of Engineering and	Vol. 6, Iss.02, pp.1-12,

		Morphological Analysis using SVM-KNN Classifier	Technological Advances (JETA) ISSN: 2277-3878	2021
13.	Mrs. S. Gowri, Dr. Judith Justin Dr. R. Vanithamani	An Improved Classification of MR Images for Cervical Cancer Using Convolutional Neural Networks	ICTACT Journal on Image and Video Processing ISSN: 0976-9102	Vol. 12, Iss. 02, pp.2605-2609, 2021
14.	Mrs. S. Gowri, Dr. Judith Justin, Dr. R. Vanithamani	Automated Nano-Technology Based Particulate Filters to a Clean Environment in Rooms of Biomedical Applications	ICTACT Journal on Microelectronics ISSN: 2395-1680	Vol. 07, Iss. 3, pp.1189 – 1192, 2021
15.	Mrs. R. Shijitha	Efficient Morphological Segmentation of Brain Hemorrhage Stroke Lesion through MultiResUNet	Advanced signal acquisition and processing for Internet of Medical Things ISSN: 1546-2226	Vol. 70, Iss. 3, pp.5233-5249, 2021
16.	Mrs. E. Smily Jeya Jothi	An Automatic Screening Approach for Obstructive Sleep Apnea from Photoplethysmograph using Machine Learning Techniques	TELKOMNIKA Telecommunication, Computing, Electronics and Control ISSN: 1693-6930	Vol. 19, Iss. 4, pp.1260-1272, 2021
17.	Mrs. R. Shijitha	Jaundice Detection System using Machine Learning	Journal of Engineering and Computing Architecture an UGC approved Group II Journal ISSN:1934 -7197	Vol. 11, Iss. 6, pp.149-155, 2021
18.	Mrs. R. Shijitha	Non-Invasive Detection System of Sinus Using CNN Algorithm	Journal of Engineering and Computing Architecture an UGC approved Group II Journal ISSN:1934 -7197	Vol. 11, Iss. 6, pp.143-148, 2021.
19.	Mrs. E. Smily Jeya Jothi	Early Detection of Glaucoma using	Journal of Engineering and	Vol. 11, Iss. 6, pp.132-142,

		Machine Learning and Interfaced with Mobile Application	Computing Architecture an UGC approved Group II Journal ISSN:1934 -7197	2021
20.	Mrs. E. Smily Jeya Jothi	Location based Laboratory and Medical Supplies Transporting Healthcare Drone	Journal of Engineering and Computing Architecture an UGC approved Group II Journal ISSN:1934 -7197	Vol. 11,Iss. 6, pp.189-197 , 2021.
21.	Mrs. M. Nilanandhini	Augmented Reality Prosthetic Arm Controlling System	Journal of Engineering and Computing Architecture an UGC approved Group II Journal ISSN:1934 -7197	Vol. 11, Iss. 6, pp.176-181, 2021.
22.	Mrs. M. Nilanandhini	Early Detection of Parkison's Disease by Dopamine Level Estimation	Journal of Engineering and Computing Architecture an UGC approved Group II Journal ISSN:1934 -7197	Vol. 11, Iss. 6, pp.122-131 , 2021.
23.	Ms. S. Pavithraa	Contactless Approach for Investigation of Respiratory Rate	Journal of Engineering and Computing Architecture an UGC approved Group II Journal ISSN:1934 -7197	Vol. 11, Iss. 6, pp.166-175 , 2021.
24.	Ms. S. Pavithraa	Smart Blind Stick using Arduino	Journal of Engineering and Computing Architecture an UGC approved Group II Journal ISSN:1934 -7197	Vol. 11,Iss. 6, pp.198-205, 2021.
25.	Mrs. Karthika.R	Developing a System for Hypothermia to Sustain Brain Activity	Journal of Engineering and Computing	Vol. 11, Iss. 6, pp.260-263 , 2021.

			Architecture an UGC approved Group II Journal ISSN:1934 -7197	
26.	Ms. S. Vidhya Mrs. R. Shijitha	Deep Learning based Approach for Efficient Segmentation and Classification using VGGNet16 for Tissue Analysis to Predict Colorectal Cancer	Annals of the Romanian Society for Cell Biology ISSN: 1583-6258	Vol.25,Iss.5, pp.4002-4013 2021
27.	Ms.B.Pavihaa Lakshmi Mrs.B.Aruna	UVC Sterilization and Assistive BOT for Palsy using IOT	Annals of the Romanian Society for Cell Biology ISSN: 1583-6258	Vol.25,Iss.5, pp.4014-4025 2021
28.	Mrs.A.Mahalakshmi Dr.Judith Justin	Electrocardiograms based Electrodes, Advantages, Disadvantages, Challenges, and Limitations: A Methodological Review	Journal of Advanced Research in Dynamical and Control Systems (JARDCS) ISSN:1943-023X	Vol. 12,Iss.7, pp.409-418 2020
29.	Ms.S.Pavithra Dr.R.Vanithamani Dr.Judith Justin	Computer aided Breast Cancer Detection using Ultrasound Images	Materials Today: Proceedings ISSN: 2214-7853	Vol.33, Part7, pp.4802-4807,2020
30.	Ms.M.Kanishka Ms.R.K.Shivangi Ms.S.Pavithra	3D Printing of Bone and Cartilage Scaffolds with the help of PLAMaterial	International Journal for Science and Advance Research in Technology (IJSART) ISSN:2395-1052	Vol.6, Iss.10, 2020
31.	Ms. Shilpa Saravanan Ms. B.Heshma Ms.A.V.Ashma Shanofer Dr.R.Vanithamani	Skin Cancer Detection using Dermoscope Images	Materials Today: Proceedings ISSN:2214-7853	Vol.33,Part7, pp.4823-4827,2020
32.	Ms. M.Amritha Ms. J.Gajapriya Ms. G.Gayathri Mrs. B.Aruna	Hand Glove using Prosthetic Hand	International Journal of Scientific Research in Engineering and	Vol.4, Iss.4, pp.1-3, 2020

			Management (IJSREM) ISSN:0976-5506	
33.	Ms.S.ShareenTaj Ms.L.SherineAnnie Ms.R.Vivithra Ms.S.Keerthana	Patient Drip Monitoring System using Arduino	International Journal of Scientific Research in Engineering and Management (IJSREM) ISSN:2582-3930	Vol.4, Iss.4,2020
34.	Ms.D.Pavithra Ms.P. Chandni Ms.RajaRajeswari Ms.D.PadminiPriya Dr.R.Vanithamani	Cardiac Tele-care	IndianJournalofPublicHealthResearch &Development. ISSN: 2582-3930	Vol. 10, Iss.7,pp.1326-1328,2019
35.	Ms.R.Susithra Mrs.A. Mahalakshmi Dr.JudithJustin	A Robust Adaptive Multi-Scale Super Pixels Segmentation in SEM Image	International Journal of Recent Technology and Engineering ISSN:2277-3878	Vol.7, Iss.5,pp.161-166,2019
36.	Ms.R.Susithra Dr.JudithJustin	Design of Real Time Health Monitoring System using Surface Mount Device	Journal of Applied Sciences and Computations ISSN:1076-5131	Vol.6,Iss. 3, pp.2621-2624, 2019
37.	Ms.M.Rajeswari Ms.K.S.Meena Ms.M.S.Sheethal Ms.Sreetha Dr.C.Sivamani	Performability of VBRCP in VANET using UGFT	International Journal of Innovative Technology and Exploring EngineeringISSN: 2278-3075	Vol.8,Iss.3, pp.42-46,2019
38.	Ms.K. C. Lavanya Linnet Ms. Tomy Ann Rija Paul Dr. C.Sivamani	Two-Level Text Summarization with Sentiment Analysis for Multi-Documentsummarization	International Journal of Recent Technology and Engineering (IJRTE) ISSN: 2277-3878	Vol.7, Iss.5,pp.103-107,2019
39.	Ms.N.H.Deepthi Ms.S. Basavaraj Sharma Mrs.J.Revathi	Rapid Visualization of Finger prints on various surfaces Using ZnO Super structures	Journal of Science Advanced Materials and Devices	Vol.3, pp.18-28,2018

	Ms.R. H.Ramani Ms.R.B.Nagabhushana	prepared via Simple Combustion Route	ISSN: 2468-2179	
40.	Ms.H.Suresh Ms.R.B.Nagabhushana Ms.S.Basavaraj Ms.G.P.Dharshan Ms.B.DharukaPrasad Ms.D.Kavishree Ms.S.C.Sharma Dr.R.Vanithamani	Sio ₂ @LaOF: Eu ₃ +coreshell Functional Nano- materials for Sensitive Visualization of Latent Fingerprints and WLED Applications	Journal of Colloid and Interface Science ISSN:0021-9797	Vol.518, pp. 200- 215,2018
41.	Dr.M.Rajeswari Dr.C.Sivamani	Survey on Data Dissemination Process using Routing Protocols in MANET and VANET	Journal of Advanced Research in Dynamical and Control Systems ISSN:1943-023X	Vol.15, pp.214- 221,2017
42.	Ms.K. Gokila Ms.Ila Vennila	Heuristic-based link Quality Preservation for Reliable Data Delivery	International Journal of Communication Systems ISSN: 1099-1131	Vol.30, e3304,2017
43.	Ms.R.Renee Christina Dr. Judith Justin Ms. Minda Daniel	Automated POLYP Detection in Colon Capsule Endoscopy using SVM Classifiers	International Journal of Control Theory and Applications (IJCTA) ISSN: 0974-5572	Vol.8, Iss.11,pp.188 7-1892,2015
44.	Dr.R.Vanithamani Ms.R.Dhivya	Tumor Detection in Breast Ultrasound Images	IJCTA, International Journal of Control Theory and Applications ISSN:0974-5572	Vol.8, Iss.2,pp.1881- 1885, 2015
45.	Ms. K. Divyadarshini Dr.R.Vanithamani	Segmentation of Mammographic Masses using Gray Level Thresholding	International Journal of Tomography and Simulation ISSN: 2319-3336	Vol.28, Iss.4,pp.65,20 15