Profile

Name : Dr. (Mrs). Judith Justin

Qualification : B.E (I&C), M.Tech.(BME), Ph.D (Information &

Communication Engineering)

Department : Biomedical Instrumentation Engineering

Designation : Professor & Head

Address for Communication

Official Address : Professor & Head,

Department of Biomedical Instrumentation Engineering,

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1. Projects implemented and ongoing

S.No	Investigator / Co-Investigator	Title of the Project	Funding Agency	Amount and Duration
1.	Principal	Blood vessel segmentation by	Indian Council for Medical	20.56 L
	Investigator	Fuzzy C means clustering	Research (ICMR)	May 2015-May 2018
				Completed
2.	PI	MODROB	AICTE	8.5 L
				Ongoing

Academic Qualification:

S.No	Degree	Year	Subject	University/Institution	% of marks
1.	B.E.	1989	Instrumentation & Control	Bharathiar University/	70
			Engineering	Government College of	
				Technology, Coimbatore-13	
2.	PGDMIT	1993	Medical Instrumentation	Bharathiar University/	74
			Technology	Coimbatore Institute of	
				Technology, Coimbatore	
3.	M. Tech.	2002	Biomedical Engineering	Indian Institute of Technology,	CGPA: 9.25
				IIT- Madras, Chennai-36	
4.	Ph.D.	2015	Information and	Anna University/	CGPA: 8.00
			Communication Engineering	PSG College of Technology,	
				Coimbatore-14	

Experience

S.	Positions held	Place of work	Duration		Areas of work
No.					
1.	Professor & Head	Avinashilingam Institute for Home Science and	01.8.07	Till date	Teaching & Research
2.	Assistant Professor & Head	Higher Education for Women, Coimbatore-	01.7.04	01.08.07	Teaching
3.	Lecturer (Senior Scale) & Head (since 1.7.2002)	641108	01.8.01	01.07.04	Teaching
4.	Lecturer		09.8.96	01.08.01	Teaching
5.	Associate Lecturer	The Indian Engineering College, Vadakkangulam, Tirunelveli Dt.	25.8.89	26.07.90	Teaching

Publications:

S. No	Author(s)	Title	Name of Journal	Volume	Page	Year
1.	Pavithra S.	Computer Aided	Materials Today:	In Press	In Press	2020
	Vanithamani R.	Breast Cancer	Proceedings, Elsevier			
	Justin J.	Detection using				
		Ultrasound Images				
2.	Mahalakshmi A. Judith Justin	Electrocardiograms based electrodes, advantages, disadvantages, challenges, and limitations: a methodological	Journal of Advanced Research in Dynamic Systems & Controls, ISSN: 1943-023X	Vol.12, Iss.7	409-418	Sept. 2020
		review				
3.	Susithra, R. Mahalakshmi, A. Judith Justin	A Robust Adaptive Multi-Scale Superpixels Segmentation in SEM Image	International Journal of Recent Technology and Engineering (IJRTE)	Volume- 7, Issue-5S3,	161-166	2019
4.	Susithra.R Judith Justin	Design of Real Time Health Monitoring System using Surface Mount Device	Journal of Applied Sciences and Computations	Vol.6	2621-2624	2019
5.	Renee Christina R, Judith Justin, Minda Daniel	Automated POLYP detection in colon capsule endoscopy using SVM classifiers	International Journal of Control Theory and Applications (IJCTA)	Vol.8	1887-1892	2015
6.	Dhivya R., J udith Justin,	Quality Estimation of Alaryngeal speech	International Journal of Engineering and	Vol.5	4643-4650	2014
	M.Arnika		Technology	** 1 0	25012515	2012
7.	Judith Justin, IlaVennila	Enhancement of Speech Signals Using Weighted Mask and Neuro- Fuzzy Classifier	International Review on Computers and Software	Vol. 8	2704-2717	2013
8.	Judith Justin , IlaVennila	A Hybrid speech recognition system with hidden Markov Model and Radial Basis Function Neural Network	American Journal of Applied Sciences	Vol.10.	1148-1153	2013
9.	Annu N, Judith Justin	Automated Classification of Glaucoma images by Wavelet Energy Features	International Journal of Engineering and Technology	Vol.5	1716-1721	2013
10	C.Vijayaraghavan, K.Balakumar, N.Tamilselvan, Judith Justin	Evaluation of a novel, natural badam gum as a sustained release and muco- adhesive component of atenolol buccal tablets	International Journal of Pharmacy and Pharmaceutical Sciences	Vol.4	85-91	2012

11.Judith Justin,	Performance of	European Journal of	Vol.66	41-47	2011
IlaVennila	Speech Recognition	Scientific Research			
	using Artificial				
	Neural Network and				
	Fuzzy				
	Logic				

 $Books/Reports/Chapters/General\ articles\ etc.$

S. No	Title	Author's Name	Publisher	Year
Books			I	
1.	Hybrid Models for Speech Recognition,	Judith Justin	LAP LAMBERT	2018
	Enhancement and Quality Analysis		Academic	
			Publishing,	
			Germany	

Book (Chapters			
S. No	Title	Author's Name	Book & Publisher	ISBN Number & Year
1.	Breast Cancer Detection using Random Forest Classifier	Pavithra Suchindran, Vanithamani R. Judith Justin	Research on Deep	ISBN:978179 9866923 Year: 2020
2.	Computer-aided diagnosis of knee osteoarthritis from radiographic images using Random Forest Classifier	Pavithra D. Vanithamani R. Justin Justin	Research on Engineering,	
3.	Speech Enhancement using Neuro fuzzy Classifier	Judith Justin Vanithamani R.	400) IGI Global Handbook of Research on	ISBN:97817 9866619 Year:2021
4.	Role of Deep Neural Network in Speech Enhancement: A Review	Hepsiba.D Judith Justin	Communications in Computer and Information Science, Vol. 890, pp. 103-112 Springer	981-13-9129 3 Year :2019

5.	Video Based Silent Speech Recognition	Sangeetha.V Judith Justin Mahalakshmi.A		ISBN: 978- 3-030-24643- 3 Year: 2020
6.	Assessment of Speech De-noising using a Perceptual Measure-PESQ	R.Dhivya, Judith Justin	Advances in Intelligent Systems and Computing book series (AISC, volume 614), pp. 270-278 Springer	ISBN:978-3- 319-60618-7 Year: 2017
7.	Performance evaluation of a speech enhancement technique using wavelets	R.Dhivya, Judith Justin	Advances in Intelligent Systems and Computing book series (AISC,	ISBN :978-3- 319-60618-7
8.	Estimation of paralinguistic features and quality analysis of Alaryngeal voice	Judith Justin, IlaVennila	Advances in Intelligent Systems and Computing book series (AISC, volume 397)pp. 270-278 Springer	Year : 2016

Full paper published in the proceedings of Conference / Seminars / Symposia, etc

S.No.	Paper Details	ISBN No.
1.	Priyadharshini V and J. Justin, "Quantification of non-deterministic	ISBN:978-1-4799-3358-7
	events in pathological PCG signals using Continuous and Packet	
	Wavelet Transforms," 2014 IEEE International Conference on	
	Communication and Signal Processing, Melmaruvathur, 2014, pp.	
	1419-1423, doi: 10.1109/ICCSP.2014.6950083.	
2.	R. Dhivya and J. Justin, "Assessment of acoustic parameters of	ISBN:978-1-4799-4982-3
	prosthetic voice and comparison with a normal voice," 2014	
	International Conference on Green Computing Communication and	
	Electrical Engineering (ICGCCEE), Coimbatore, 2014, pp. 1-4,	
	doi: 10.1109/ICGCCEE.2014.6922434.	
3.	R.Dhivya, Judith Justin, Wavelet thresholding techniques in	ISBN:978-1-78561-786-7
	speech signal denoising, , IET Digital Library, pp.1-4, 2016	
4.	J. Justin, R. Vanithamani and R. R. Christina, "Comparative study	ISBN:978-1-4799-7849-6
	of retinal vessel segmentation methods," 2015 IEEE International	
	Conference on Computational Intelligence and Computing	
	Research (ICCIC), Madurai, 2015, pp. 1-3,	

	doi: 10.1109/ICCIC.2015.7435658.	
5.	R. Nishanthini, Judith Justin, "Automatic Detection of macular Degeneration", National Conference on Recent Innovations in Healthcare Technologies, (NCRIHT'17)	

Patent Filed:

S. No	Patent Title	Name of Applicant	Patent No.	Award	Agency/	Status
		(s)		Date	Country	
1.	Device and method of	Renee Christina,	201741015393 A		India	Examination
	an Infrared Camera to	Judith Justin,				stage
	detect dental caries and	R.Vanithamani				
	its image is captured and					
	stored in a computer /					
	mobile phone for further					
	processing or Second					
	Opinion					