FACULTY PROFILE

Name of Teaching Staff / RMK ID	Mr. Joel T / T0498	
Designation	Associate Professor	
Department	ECE	
Date of Joining the Institution	27.6.2007	
Qualifications	M.E.	
Total Experience	Overall : 23 years	in RMK : 15 years 11 months
Papers Published in Journal	Overall : 17	After Joining RMK : 16
List of Papers Published	1. **T.Joel,** R. Sivakumar, "Despeckling of Ultrasound Medical Images: A Survey", Journal of Image and Graphics, Vol 1, No.3, September **2013**. 2. "Geographical Image Retrieval using Local Invariant features with Euclidean Distance", International Journal for Research and Development in Engineering, Special Issue: pp: 222 – 225, **2014**. 3. A. Rajshree, D. Venkataprasad, **T. Joel**, R. Sivakumar., "Comparative Performance Analysis of Speckle Reduction using Curvelet and Contourlet Transform for Medical Images" Middle-East Journal of Scientific Research 24(S1), 88-95, **2016**. 4. **T. Joel**, R. Sivakumar, "An extensive review on Despeckling of medical ultrasound images using various transformation techniques" Applied Acoustics, Volume 138, **September 2018**, Pages 18 – 27. 5. **T. Joel**, K. S. Nishanthi ,"A survey on filtering methods in medical ultrasound images", South Asian Journal of Research in Engineering Science and Technology, Volume 4, Issue 2, pp 1-7, **February 2019**. 6. Ramya C, Vaishali J, Nelavalli Divya, **T.Joel**,	

"Underwater craft articulation system using visible light Elucidation Technique", International Journal of Scientific and Research Publications, Volume 9, Issue 4, pp 684 – 689, **April 2019**.

7. **T. Joel**, J Yogapriya, "Denoising of medical ultrasound images using Wavelet transform with Bilateral filter", International Journal of Recent Technology and Engineering, Volume 8, Issue 4, pp 8113 – 8116, **November 2019**.

8. K. Naresh Kumar Thapa, **T. Joel**, Dr. S. Sankara Gomathi, Dr. T. Suresh, "Optical Tracking Method on Clustering Technique Under Ocean Water Cleaning System", TEST Engineering and Management, ISSN: 0193-4120, Page No. 8853-8858, **February 2020**.

9. **T. Joel**, R. Sivakumar, "Nonsubsampled Contourlet Transform with cross-guided bilateral filter for Despeckling of Medical Ultrasound Images", International Journal of Imaging Systems and Technology, **October 2020**.

10. **T. Joel**, J. Yogapriya, "Contrast Enhancement using Non-Subsampled Contourlet Transform with Histogram Equalization for Ultrasound Images", European Journal of Molecular & Clinical Medicine, ISSN: 2515-8260, Issue 3, Volume 7, Page no 1590 – 1597, **December 2020**.

11. **T.Joel**, A. Sarath Teja, P. Karthik, M.V.S. Hemavardhan, "Efficient MRI Brain Image Segmentation and classification for 3D-Applications", Turkish online Journal of Qualitative Inquiry, Volume 12, Issue 9, 6897-6909, **e-ISSN** 1309-6591, **August 2021**.

12. G.I. Rajathi, R.R. kumar, D.Ravikumar, **T.Joel**, S.Kadry, C W Jeong, Y Nam, " Brain Tumor Diagnosis using Sparrow Search Algorithm Based Deep Learning Model", Computer Systems Science & Engineering, Volume 44, Issue 2, 1793 – 1806, 2023

13. S.P. Premnath, J. ArokiaRenjith, P. Shanmugapriya,

	T. Joel, K. Muthukumar, C. Nayantara. "A Novel Approach for Image Restoration using Convolution Network – based Image Denoising Technique, AIP conference Proceedings, Volume 2527, Issue 1, Page no 040003-1 – 040007-7, Oct 2022	
	14. G.Karthikeyan, Dhaarani T G, R. Anusuya, Kayan kumar G, **Joel T**, R. Thandaiah Prabu, "Real-Time Sidewalk Crack Identification and Classification based on Convolutional Neural Network using Thermal Images", IACARS, IEEE Xplore, February 2023.	
	15. **Joel T**, Sakthipriya R, Reena J, A Poojha, "Novel Approach to Non-Invasive Blood Glucose Monitoring Based on Visible Laser Light", IACARS, IEEE Xplore, February 2023.	
	16. **T.Joel**, T.D.Subha, Srilakshmi, Sirisha, C. Dharmesh, A. Devaraj, "An autonomous mobility protection scheme with authentic signal propagation detection is integrate using turnpike detectors", Materials Today: Proceedings, April 2023, ISSN:2214-7853	
Ph.Ds / Projects Guided	Ph.Ds Guided :	Student Projects Guided : 23
Books Published :	Count : 7	

	List : Electronic Circuits I
	        Electronic Circuits II
	        Electron Devices
	        Electron Devices & Circuits
	        Digital Electronics
	        Digital Logic Circuits
	        Digital Principles and System Design	

Patents	Published Count : 2	Granted Count : 1

	List : 1. Smart Air Pollution Monitoring and control using IOT and Machine Learning.
	
	   2. IOT Based Automatic Water Clarity Measurement System Powered By Solar Cells
	
	   3. Internet of Things (IoT) and wireless based Electronic-	

	Shopping Cart System.
Professional Memberships	Count : 3

	List : 1. ISTE
	     2. IAENG
	     3. SIPH

Consultancy Projects Completed	Count : 2
Awards Received	Count : 1
	List : Best Mentor Award
Orchid Link / ID	ID : 0000-0001-9972-0662
Google Scholar Link / ID	ID : DWnC120AAAAJ
Vidwan Link / ID	ID : 305290
Research Gate Link / ID	ID: AEB-8522-2022
Scopus Link / ID	ID : 57201389658