FACULTY PROFILE		
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Subjects Handled	:	1. Digital Signal Processing 2. Electron Devices and Circuits 3. Signals and Systems 4. Microprocessor and its applications 5. Embedded Systems 6. Electronics and Microprocessor 7. Digital Principles and system Design 8. Advanced Digital Signal Processing 9. Electronic Circuits II
Books Published	:	-
Journals Published	:	1. **The Optimization of PEM Fuel-Cell Operating Parameters with the Design of a Multiport High-Gain DC–DC Converter for Hybrid Electric Vehicle Application** B Karthikeyan, Palanisamy Ramasamy, M Pandi Maharajan, N

		Padmamalini, **J Sivakumar**, Subhashree Choudhury, George Fernandez Savari ***Sustainability (Switzerland)***, 2024, 16(2), 872,2024 2. **Analysing the performance ceiling of $RbSnGeI_3$-based lead-free stable perovskite solar cell** S Gomathi, J Sivapriya, M Kalaiyarasi, **J Sivakumar**, SJ Rubavathy, ... Optical and Quantum Electronics 55 (8), 734,2023 3. **Automatic detection of COVID-19 in chest radiographs using serially concatenated deep and handcrafted features** S Rajesh Kannan, **J Sivakumar**, P Ezhilarasi Journal of X-ray Science and technology 30 (2), 231-244.2022 4. **Automated classification of brain tumors into LGG/HGG using concatenated deep and handcrafted features J Sivakumar**, S Rajesh Kannan, KS Manic Frontiers of Artificial Intelligence in Medical Imaging, 7-1-7-14.2022 5. **Customized convolution NeuralNetwork for Multi-class lung abnormality classification from CT images**', D.Lakshmi,, **J.Sivakumar**, K.Palani Thangaraj,N.Thendral,' InformationTechnology in Industry, Vol. 9,No.1,2021, pp.49-57 **6. Intelligent exploration strategy for a mobile robot to reduce the repeated searches in an unknown environment** A Haldorai, M Shakya, K Chanthirasekaran, **J Sivakumar**, R Subbiah, . NVEO-NATURAL VOLATILES

		& ESSENTIAL OILS Journal| NVEO, 1479-1487,2021 7. **A Soft Computing Approach towards Segmentation of Blood Vessels in Retinal Images J Sivakumar**, K Chitra Australian Journal of Basic and Applied Sciences 9 (5), 111-119,2015 8. **Max Fusion of SFCM clusters to segment Blood Vessels in Retinal images J Sivakumar,** K Chitra, C Selvakumar International Journal of Applied Engineering Research 10 (66), 39-42 2015 9. **Automated Extraction Of Blood Vessels In Retinal Image J Sivakumar**, J Jeno International Journal of Advanced Research in Electrical, Electronics and Instrumentation Engineering 2014
Conference Published		1. **Breast Cancer Detection Using Watershed and Back Propagation Algorithm** Loghitha, S., Preethi, S., **Sivakumar, J.** *5th International Conference on Innovative Trends in Information Technology*, *ICITIIT 2024*, 2024 2. **Mppt based Model Predictive Controlled Interleaved Boost Converter** MES Sheeba, **J Sivakumar**, D Kirubakaran, JF Roseline, D Ezhilarasan, ...5th International Conference on Inventive Research in Computing,2023 3. **Multi-Class SVM Prediction Model for Lung Cancer Diagnosis** D Lakshmi, **J Sivakumar**, S Ramani International Conference on Artificial Intelligence for Smart Community.2022

		4. **Construction of Malaria Disease Prediction System using Deep Learning Sivakumar, J**, Sudhagar, D. , Vithya, V.T. , Narasimha Raju, K … International Conference on Automation, Computing and Renewable Systems,2022 5. **Location of Optic disk and Segmentation of Blood vessels in Retinal images J.Sivakuma**r, M.Anitha 4th International Conference on "Electrical, Electronics, Instrumentation 2018
Conference /Workshop Attended	:	1. Soft Computing Techniques for Image Processing. MEPCO Schlenk Engineering College, July 6-7 2009. 2. Conference on Signals,Systems and Communication, College of Engineering Anna University, December 21-23 2009. 3.Advanced level intensive workshop on Neural Networks for Image and Signal Processing ,PSG College of Technology , Jan 10-11 2011
Patent Details	:	Design a Low-Cost Green Power Divining Farming Using IOT and Cloud Computing, Application No.201941050317 A , International classification :H04W4/38 , Patent Office Journal No. 50/2019 Dated 13/12/2019 pp.59277 ENHANCING MISINFORMATION DETECTIONWITH ENSEMBLE LEARNING Application No.202441028432 A,International classification H04L0051000000,The Patent Office Journal No. 15/2024 Dated 12/04/2024 PP35376 INTELLIGENT IMAGE PROCESSING SYSTEM FOR ADAPTIVE TRAFFIC LIGHT CONTROL Application No.202441032524 A,International classification G06Q0010060000 The Patent

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Funded Project Details		-