

FACULTY PROFILE FORMAT (Format 3)		
Staff Name	:	J.SIVAKUMAR
Faculty ID	:	TEC09
Designation	:	Associate Professor
Qualification	:	M.E,Ph.D
Teaching Experience	:	27 years and 6 months
Area of Specialization	:	Signal Processing, Image Processing
Subjects Handled	:	<ol style="list-style-type: none"> 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	:	<p>Breast Cancer Detection Using Watershed and Back Propagation Algorithm Loghitha, S., Preethi, S., Sivakumar, J. <i>5th International Conference on Innovative Trends in Information Technology, ICITIIT 2024</i>, 2024</p> <p>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 <i>Sustainability (Switzerland)</i>, 2024, 16(2), 872,2024</p> <p>Analysing the performance ceiling of RbSnGeI₃-based lead-free stable perovskite solar cell S Gomathi, J Sivapriya, M Kalaiyarasi, J Sivakumar, SJ Rubavathy, ... <i>Optical and Quantum Electronics</i> 55 (8), 734,2023</p> <p>Mppt based Model Predictive Controlled Interleaved Boost Converter MES Sheeba, J Sivakumar, D Kirubakaran, JF Roseline, D Ezhilarasan, ...<i>5th International Conference on Inventive Research in Computing</i>,2023</p>

	<p>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</p> <p>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</p> <p>Multi-Class SVM Prediction Model for Lung Cancer Diagnosis D Lakshmi, J Sivakumar, S Ramani International Conference on Artificial Intelligence for Smart Community.2022</p> <p>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</p> <p>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, ...</p> <p>NVEO-NATURAL VOLATILES & ESSENTIAL OILS Journal NVEO, 1479-1487,2021 Location of Optic disk and Segmentation of Blood vessels in Retinal images J.Sivakumar, M.Anitha 4th International Conference on "Electrical, Electronics, Instrumentation 2018</p> <p>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</p> <p>Max Fusion of SFCM clusters to segment Blood Vessels in Retinal images J Sivakumar, K Chitra, C</p>
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		<p>Selvakumar International Journal of Applied Engineering Research 10 (66), 39-42 2015</p> <p>Automated Extraction Of Blood Vessels In Retinal Image J Sivakumar, J Jeno International Journal of Advanced Research in Electrical, Electronics and Instrumentation Engineering 2014</p>
Conference /Workshop Attended	:	<p>1. Soft Computing Techniques for Image Processing. MEPCO Schlenk Engineering College, July 6-7 2009.</p> <p>2. Conference on Signals, Systems and Communication, College of Engineering Anna University, December 21-23 2009.</p> <p>3. Advanced level intensive workshop on Neural Networks for Image and Signal Processing ,PSG College of Technology , Jan 10-11 2011</p>
Patent Details	:	-
Funded Project Details	:	-