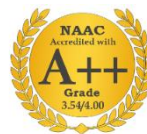




SETHU INSTITUTE OF TECHNOLOGY

(An Autonomous Institution| Accredited with 'A++' Grade by NAAC)

Pulloor, Kariapatti –Taluk. Virudhunagar Dist-626115.



Department of Biomedical Engineering					
Name	Dr.D.SUNDERLIN SHIBU				
Date of Birth	20/10/1987				
Unique ID	1-705179252				
Educational Qualifications	M.E.,Ph.D				
Designation	Associate Professor				
Email ID	sunderlin.shibu@sethu.ac.in				
Alternate Email ID	sunderlin.shibu@gmail.com				
Experience	Industry	Teaching	Others	Total	
	-	14	-	14	
Date of Joining the Institution	2-01-2023				
Area of Specialization	Bio Image Processing/ Human Assist Devices				
Courses taught	Biomedical Instrumentation, Diagnostic and Therapeutic Equipment, Anatomical Human physiology, Medical Wearable Devices, Human Assist Devices, Rehabilitation Engineering.				
Research Focus	Bio Image Processing, Human Assist Devices				
Research guidance (Number of Scholars)	Nil				
Subject Competency	Biomedical Instrumentation, Medical Wearable Devices, Human Assist Devices, Image Processing Techniques				
No. of papers published	National Journals		International Journals		Conferences
			11		3
PG Specialization	Applied Electronics				
Ph.D. Specialization	Medical Image Processing				
Projects Carried out	1				
Patents (Filed & Granted)	2				
Technology Transfer	1				
No. of Books published with details (Name of the book, Publisher with ISBN, year of publication, etc.)	1				



Academic Credentials

Level	Degree	Specialization	University	Year of Completion
UG	BE	Biomedical Engineering	Anna University, Chennai	2009
PG	ME	Applied Electronics	Anna University, Chennai	2011
Ph.D.	Ph.D.	Medical Image Processing	Anna University, Chennai	2022

Details of Journal Publication:

S.No	Author(s)	Title of the Book/Journal	Title of the paper	Name of the Publications	Doi
1.	Sunderlin Shibu D, Suja Priyadharsini S.	Biomedical Signal Processing and Control	Multi scale decomposition based medical image fusion using convolutional neural network and sparse representation	Elsevier	https://doi.org/10.1016/j.bspc.2021.102789
2.	Sunderlin Shibu D, Suja Priyadharsini S.	International Journal of Imaging Systems and Technology	Multimodal medical image fusion using L ₀ gradient smoothing with sparse representation.	Wiley	https://doi.org/10.1002/ima.22592
3.	Jayeshma A, Sunderlin Shibu D.	IJETT	An improved fractional fourier transform based reconfigurable filter bank for hearing aid	Seventh Sense Research Group	10.14445/22315381/IJETT-V10P253
4.	Muthulakshmi.S Sunderlin Shibu D.	IJETT	A Pneumatic Muscle Driven Wearable Parallel Robot for Ankle Joint Rehabilitation	Seventh Sense Research Group	10.14445/22315381/IJETT-V23P234
5.	Pavithra S, Sivasankari S, Sunderlin Shibu. D.	IJETT	Hybrid Segmentation and Features Extraction of Ischemic stroke on CT brain	Seventh Sense Research Group	10.14445/22315381/IJETT-V42P221
6.	Sherlin Jenifa J , Jenu J, Sunderlin Shibu D.	IJARMATE	Effective Respiratory Monitoring Device for Pulmonary Inflammatory Patients	The Global Index for Continuing Resources	2454-9762
7.	A Sharmila Suruthi, D Sunderlin Shibu, S Raja.	IJMTE	CT/MRI Image Fusion Using Sparse Representation In Curvelet Domine	International Journal of Management, Technology And Engineering	ISSN NO: 2249-7455
8.	D. Sunderlin Shibu, A. Andez Raj, A.Remcy	GRADIVA REVIEW	EMG Based Hand Pose Recognition	Gradiva Journal	ISSN NO: 0363-8057

		JOURNAL			
9.	Vasantharani.R S. Shenbaga Devi D. Sunderlin Shibu.	High Technology Letters	Epileptic Seizure Detection Using Scalp EEG	High Technology Letters	ISSN NO : 1006- 6748
10.	D. Sunderlin Shibu, RemcyA, Vasantharani.R	Bulletin For Technology And History Journal	IOT BASED TELE - SPIROMETER FOR PULMONARY DISEASE DIAGNOSIS	Bulletin For Technology And History Journal	ISSN NO : 0391- 6715
11.	Sunderlin shibu .D Remcy. A Bilna.C Malaisamy.S	GIS SCIENCE JOURNAL	Stress Detection using Electro Dermal Activity and Face Emotion Recognition	GIS SCIENCE JOURNAL	ISSN NO : 1869- 9391

Details of Conference attended:

S.N O	Year	Title of the Paper	Organization / Institution	Event	National/ International
1.	1 st to 4 th November 2023	Multiscale Bilateral filter based medical image fusion using CNN	Ajeenkya D Y Patil University, School of Engineering	ICICIS-2023	IEEE-Conference
2.	25 th &26 th August 2023	Skin Disease Detection and Therapy Using Laser With Pill Support	Sri Shakthi Institute of Engineering and Technology, Coimbatore	ICEECT-2023	International
3.	11 th & 12 th November 2022	Wrist-Hand Pose Recognition using Electromyography Signal by AI	Sri Shakthi Institute of Engineering and Technology, Coimbatore	ICCDBD-2022	International
4.	26 th & 27 th August 2022	An Improved Recurrent Neural Network Based Filter for Digital Hearing Aid	Sri Shakthi Institute of Engineering and Technology, Coimbatore	ICEECT-2022	International
5.	6 th & 7 th March 2020	Real Time Cardiac Health-Monitoring System and Arrhythmia Detection.	Kamaraj College of Engineering and Technology, Madurai.	INCHE-2020	International
6.	17 th March 2011	Analysis Of Various Methods For Liver Segmentation From Computed Tomography	Velammal Engineering College, Chennai.	NCVLSI-2011	National

		Images			
7.	11 th March 2011	Liver Segmentation From Computed Tomography Images	Christian College Of Engineering, Dindigul.	NCRTCCS'11	National

Details of Book Chapter and Books Published:

Title of the Book Chapter	Title of the Book	Pages	Publisher	Year of publication
Innovative Strategy PMDC Motors and DC-to-DC Converters in Cutting-edge Solar PV Systems	Sustainable Materials and Technologies in VLSI and Information Processing	447-452	CRC Press	2025

Details of Patents Filed and Granted:

Title of the Patent	Reference Number / Date	Filed / Published / Granted	Name of the Faculty
AI-Driven Diagnostic tool for Automated Analysis of Medical Imaging	Application Number 202441096182A Dated 13.12.2024	Published	Dr. Mahalakshmi N Dr. Kins Burk Sunil N Ms. Vasantharani R
Flexible Electromyography Sensor	Application Number 6296829 Dated 23.07.2023	Granted	Dr. Sunderlin Shibu D Mr. Muthu Pandian B Mrs. Rubini G

Expert Lecture Delivered:

S. No	Year	Title	Organization / Institution	Type of the Programme	Role	Duration
1.	2023	Future Scope of Biomedical Engineering	Holycross Engineering College	Guest Lecture	Guest Lecture	28.11.2023