Faculty Information:

Sl.No	Information		
1.	Name: Dr Gowri Shankar M		
	Contact Address: Associate Professor of EE Engg.		
	Phone Number:	+91 8526063551 & +91 8668036506	
	Email Address: mshankar065@gmail.com, mgs@mcehassan.ac.in		

Researcher Publications Links & IDs				
Scopus	57742114300 (https://www.scopus.com/authid/detail.uri?authorId=57742114300)			
Web of Science Researcher ID	ABA-5518-2021 (https://www.webofscience.com/wos/author/record/ABA-5518-2021)			
ORCID	https://orcid.org/0000-0002-0293-6393			
Google Scholar	https://scholar.google.co.in/citations?user=0Bvh5SIAAAAJ&hl=en			

2.	Qualification	B.E., M.E, Ph.D.,	
	 B.EElectrical and Electronics Engineering, 2012, Mahendra Engineering College, Namakkal (Affiliated to Anna University, Chennai), First Class (8.94 - CGPA). 		
		M.E. – VLSI Design - January 2014, First Class with Distinction (8.68 -CGPA), MIET Engineering College, Trichy (Affiliated to Anna University, Chennai) - 26 th University Rank Holder.	
		 Ph.D – Faculty of Information and Communication Engineering, Sponsored by AICTE – QIP Research Scholar (Full Time), AICTE QIP Student Unique Id: FP2000143, Anna University Registration Number: 21144691105, QIP Centre: Bannari Amman Institute of Technology, Sathyamangalam, Erode. Affiliated to Anna University, Chennai Feb 2021 – Jun 2023. 	
		Title of the Thesis: Investigation on performance enhancement in detection of cardiac arrhythmias from electrocardiogram signals using multiple classifiers with hyperparameters tuning algorithms	

3.	Date of Joining	27.05.2024			
4.	Position Held	Associate Professor of EEE			
5.	Research Interest	Medical Image Processing, Bio Signal Processing, Soft Computing, AI, ML/DL, VLSI Design and Renewable Energy Systems			
6.	Publications				
	1. "Amelioration of Multitudinous Classifiers Performance with Hyper-Parameters Tuning in				
	Elephant Search Optimization Supercomputing, 2024.	n for Cardiac Arrhythmias Detection", The Journal of			
	2. "Enhancing Security in MANET through EAACK: A Novel Approach for Node Detection,				
		nd Routing Optimization", 4th International Conference on			
		d Industry 6.0, C216 February 2024.			
		nt Network Technologies using Cognitive Radio Network"			
	4th International Conference on Communication, Computing and Industry 6.0, C216 February 2024.				
	4. "Short-time Fourier transform b	based ensemble classifiers for detection of atrial fibrillation			
	from ECG datasets", Ratio Mat	hematica, December 2023.			
	5. "Alcoholic EEG Signal Clas	ssification using Multi-Heuristic Classifiers with SGD			
	Technique for Tuning the Hyper	rparameters" IETE Journal of Research, October 2023.			
	6. "Extreme Learning Machine (ELM) based Performance Analysis and Epilepsy Identification from EEG Signals", IETE Journal of Research, September 2023.				
	7. "Detection of Congestive Heart Failure with Nature-Inspired Optimization and Classifiers				
	-	om ECG Signals", IETE Journal of Research, DOI:			
	10.1080/03772063.2022.2088627, pp1-14 August 2023.				
		rrelation Dimension with Hybrid GMM-FF Classifier for			
		" Journal of Xidian University, 2023			
		rrelation Dimension Classifier for the Detection of Oral			
	Cancer" Journal of Xidian Univ				
	-	Multiple Classifiers with Grid Search Hyper Parameter			
		c Seizures from EEG Signals", Journal of Scientific &			
	Industrial Research Vol. 81, Jul				
		ases from ECG signals through bio inspired classifiers with			
	Adam and R-Adam approaches for Hyper parameters updation", Measurement, Vol 194				
	(2022) 111048, https://doi.org/1	0.1016/j.measurement.2022.111048			
	12. "Performance Analysis of Lea	st Square Linear Regression with Various Classifiers for			
Cardiovascular Respiratory Detection from Capnography", 2022 Smart					

Communication and Robotics (STCR), 2022.

- "Logistic Regression Classifier with Hybrid Dimensionality Reduction Techniques for Epilepsy Detection from EEG Signals", 2022 Smart Technologies, Communication and Robotics (STCR), 2022.
- "Performance Analysis of Cat Swarm Optimization with Soft Discriminant Classifier for Diagnosis of Epilepsy using EEG Signals", 2022 Smart Technologies, Communication and Robotics (STCR), 2022.
- 15. "Analyzing Haar and dB2 with Compensatory GMM Classifier for Epilepsy Detection", 2022 Smart Technologies, Communication and Robotics (STCR), 2022.
- "Performance Analysis of Lion Optimization Algorithm with Hybrid Classifier for Epilepsy Detection", 2022 Smart Technologies, Communication and Robotics (STCR), 2022.
- 17. "Performance Analysis of Classifiers in Detection of CVD using PPG Signals", AIP Proceedings of (ICCSSS 2022).
- "Performance Analysis of Classifiers in Detection of Conscious State from Alcoholic EEG Signals", AIP Proceedings of (ICCSSS - 2022).
- "Analysis and Detection of Sentient State from Alcoholic EEG Signals using the Fast Fourier Transform Features based Multiple Classifiers", AIP Proceedings of (ICCSSS -2022).
- 20. "Performance Analysis of Classifiers in Detection of Diabetes from PIMA Indians Database", AIP Proceedings of (ICCSSS 2022).
- "Analysis and Classification of ECG Signal based on Whale Optimization with Compact Multiclass Support Vector Machine," 2021 Smart Technologies, Communication and Robotics (STCR), 2021, pp. 1-4, doi: 10.1109/STCR51658.2021.9589026
- "Coordinated Factor Analysis and Water Wave Optimization (WWO) Classifier for Classification of Arrhythmias from ECG Signal," 2021 Smart Technologies, Communication and Robotics (STCR), 2021, pp. 1-5, doi: 10.1109/STCR51658.2021.9588955
- "Certain Investigation on Intelligent Renewable Powered Weather Station", Journal of Computational and Theoretical Nanoscience, American Scientific Publishers, Vol 18, Issue 3, Pages 1011-1015, 2021, https://doi.org/10.1166/jctn.2021.9687
- 24. "Digital Image Falsification Detection Based on Dichromatic Model", Data Engineering and Communication Technology, Springer, Singapore, Pages 361-369, 2021, https://doi.org/10.1007/978-981-16-0081-4_36
- 25. "Performance Analysis of Dimensionality Reduction using PCA, KPCA and LLE for ECG Signals", IOP Conference Series: Materials Science and Engineering, 2021, DOI 10.1088/1757-899X/1084/1/012005

	26.	"Performance Analysis for Arrhythmia Classification using PSO GWO and SVM",
		International Conference on Signal Processing and Communication (ICPSC), 2021, pp. 67-
		72, doi: 10.1109/ICSPC51351.2021.9451729
	27.	"Performance Analysis of Linear Discriminant Analysis (LDA) With Optimization
		Techniques for Arrhythmia Classification from ECG Signals", International Journal of
		Aquatic Science, Vol 12, Issue 03, 2021, ISSN: 2008-8019.
	28.	"A Novel to Achieve Ultra HD Video Compression by using VHT Algorithm based on
		Embedded Technology", International Journal of Advanced Research in ECE (IJARECE),
		Vol 7 issue 3 March 2018 Page no. 181 to 183
	29.	"PID Control of Power Factor Corrected Zeta Converter fed SMPS", International Journal
		of Applied Engineering Research (IJAER), Vol 12, and Number 1 (2017) Page no. 283 to
		285.
	30.	"FPGA based Multi Rail Chopper by using MSP 430 Processor", International Journal of
		Engineering- Online (IJOER), Vol 5 issue 1 January 2017 Page no. 07 to 10
	31.	"Design FPGA Based Multi Rail Dc-Dc Converter Mac Architecture by using MSP 430
		Processor", International Journal of Advanced Research In ECE (IJARECE), Vol 3 issue 4
		April 2014 Page no. 391 to 394
	32.	"Design FPGA Based Mac Architecture by using MSP 430 Processor", International
		Journal of Communication and Computer Technologies (IJCCTS), Vol 2 issue 11 March 2014 Page no. 56 to 58.
7.	Int	
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7.	Int 1. 2.	2014 Page no. 56 to 58. ernational Conferences & National Conferences ernational Conferences "Design FPGA Based Mac Architecture by using MSP 430 Processor" a paper was presented an International conference on "ICEEICA -16, at Selvam College of technology, Namakkal held on March 2 nd 2016. "MSP 430 Processor for Control Multi-Rail Dc-Dc Converter" a paper was presented an International conference on "ICEEICA -16, at Selvam College of technology, Namakkal held on March 2 nd 2016.
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7.	Int 1. 2.	 2014 Page no. 56 to 58. ernational Conferences & National Conferences ernational Conferences "Design FPGA Based Mac Architecture by using MSP 430 Processor" a paper was presented an International conference on "ICEEICA -16, at Selvam College of technology, Namakkal held on March 2nd 2016. "MSP 430 Processor for Control Multi-Rail Dc-Dc Converter" a paper was presented an International conference on "ICEEICA -16, at Selvam College of technology, Namakkal held on March 2nd 2016. "MSP 430 Processor for Control Multi-Rail Dc-Dc Converter" a paper was presented an International conference on "ICEEICA -16, at Selvam College of technology, Namakkal held on March 2nd 2016. "Maximum Power Point Tracking Based on the Closed Circuit Voltage Method for Thermoelectric Generators" a paper was presented a International conference on
7.	Int 1. 2. 3.	 2014 Page no. 56 to 58. ernational Conferences & National Conferences ernational Conferences "Design FPGA Based Mac Architecture by using MSP 430 Processor" a paper was presented an International conference on "ICEEICA -16, at Selvam College of technology, Namakkal held on March 2nd 2016. "MSP 430 Processor for Control Multi-Rail Dc-Dc Converter" a paper was presented an International conference on "ICEEICA -16, at Selvam College of technology, Namakkal held on March 2nd 2016. "MSP 430 Processor for Control Multi-Rail Dc-Dc Converter" a paper was presented an International conference on "ICEEICA -16, at Selvam College of technology, Namakkal held on March 2nd 2016. "Maximum Power Point Tracking Based on the Closed Circuit Voltage Method for Thermoelectric Generators" a paper was presented a International conference on "ICISRES-17", at Selvam College of technology, Namakkal held on March 2nd 2017.
7.	Int 1. 2. 3.	2014 Page no. 56 to 58. ernational Conferences & National Conferences "Design FPGA Based Mac Architecture by using MSP 430 Processor" a paper was presented an International conference on "ICEEICA -16, at Selvam College of technology, Namakkal held on March 2 nd 2016. "MSP 430 Processor for Control Multi-Rail Dc-Dc Converter" a paper was presented an International conference on "ICEEICA -16, at Selvam College of technology, Namakkal held on March 2 nd 2016. "Maximum Power Point Tracking Based on the Closed Circuit Voltage Method for Thermoelectric Generators" a paper was presented a International conference on "ICISRES-17", at Selvam College of technology, Namakkal held on March 2 nd 2017. "Finger Print based Intelligent ATM" a paper was presented a International conference on
7.	Int 1. 2. 3.	 2014 Page no. 56 to 58. ernational Conferences & National Conferences "Design FPGA Based Mac Architecture by using MSP 430 Processor" a paper was presented an International conference on "ICEEICA -16, at Selvam College of technology, Namakkal held on March 2nd 2016. "MSP 430 Processor for Control Multi-Rail Dc-Dc Converter" a paper was presented an International conference on "ICEEICA -16, at Selvam College of technology, Namakkal held on March 2nd 2016. "MSP 430 Processor for Control Multi-Rail Dc-Dc Converter" a paper was presented an International conference on "ICEEICA -16, at Selvam College of technology, Namakkal held on March 2nd 2016. "Maximum Power Point Tracking Based on the Closed Circuit Voltage Method for Thermoelectric Generators" a paper was presented a International conference on "ICISRES-17", at Selvam College of technology, Namakkal held on March 2nd 2017. "Finger Print based Intelligent ATM" a paper was presented a International conference on "ICISRES-17", at Selvam College of technology, Namakkal held on March 2nd 2017.
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	presented at International conference on "ICISRES-17", at Selvam College of technology,
	Namakkal held on March 2 nd 2017.
7.	"PID Control of Power Factor Corrected Zeta Converter Fed SMPS" a paper was
	presented at International conference on "ICPCIT-17", at Madanapalle Institute of
	Technology & Science (MITS), Madanapalle, Andhra held on April 27 th 2017.
8.	"Visualization Created Image Fake Finding" a paper was presented at International
0.	conference on "ICLTEC-18", at Malla Reddy College of Engineering, Hyderabad, held on
	Dec 28 th 2018.
0	"Digital Image Falsification Detection Based on Dichromatic Model", Data Engineering
9.	and Communication Technology, Springer, Singapore, 4th International Conference on
10	Data Engineering, Kakatiya Institute of Technology, Warangal-506015, September 2020
10.	"Performance Analysis of Dimensionality Reduction using PCA, KPCA and LLE for ECG
	Signals", IOP Conference Series: Materials Science and Engineering, 2021, DOI
11	10.1088/1757-899X/1084/1/012005
11.	"Performance Analysis for Arrhythmia Classification using PSO GWO and SVM",
	International Conference on Signal Processing and Communication (ICPSC), 2021, pp. 67-
10	72, doi: 10.1109/ICSPC51351.2021.9451729
12.	"Performance Analysis of Linear Discriminant Analysis (LDA) With Optimization
	Techniques for Arrhythmia Classification from ECG Signals", Second International
	Conference on New Age Systems and Automation Technologies - ICNAAT-2021 held
	during 9-10 July2021 at BIT Sathyamangalam
13.	"Analysis and Classification of ECG Signal based on Whale Optimization with Compact
	Multiclass Support Vector Machine," First International Conference on Smart
	Technologies, Communication, and Robotics 2021 (IEEE-STCR 2021), 09 - 10 October
	2021, BIT Sathyamangalam
14.	"Coordinated Factor Analysis and Water Wave Optimization (WWO) Classifier for
	Classification of Arrhythmias from ECG Signal," First International Conference on Smart
	Technologies, Communication, and Robotics 2021 (IEEE-STCR 2021), 09 – 10 October
	2021, BIT Sathyamangalam
15.	"Performance Analysis of Classifiers in Detection of CVD using PPG Signals", AIP
	Proceedings of Second International Conference on Circuits, Signals, Systems and
	Securities (ICCSSS - 2022), 25th – 26th March 2022, BIT Sathyamangalam
16.	"Performance Analysis of Classifiers in Detection of Conscious State from Alcoholic EEG
	Signals", AIP Proceedings of Second International Conference on Circuits, Signals,
	Systems and Securities (ICCSSS - 2022), 25th – 26th March 2022, BIT Sathyamangalam
 17.	"Analysis and Detection of Sentient State from Alcoholic EEG Signals using the Fast

Fourier Transform Features based Multiple Classifiers", AIP Proceedings of Second International Conference on Circuits, Signals, Systems and Securities (ICCSSS - 2022), 25th – 26th March 2022, BIT Sathyamangalam

- "Performance Analysis of Classifiers in Detection of Diabetes from PIMA Indians Database", AIP Proceedings of Second International Conference on Circuits, Signals, Systems and Securities (ICCSSS - 2022), 25th – 26th March 2022, BIT Sathyamangalam
- "Performance Analysis of Least Square Linear Regression with Various Classifiers for Cardiovascular Respiratory Detection from Capnography", Second International Conference on Smart Technologies, Communication, and Robotics 2022 (IEEE-STCR 2022), 10 – 11 December 2022, BIT Sathyamangalam
- "Logistic Regression Classifier with Hybrid Dimensionality Reduction Techniques for Epilepsy Detection from EEG Signals", Second International Conference on Smart Technologies, Communication, and Robotics 2022 (IEEE-STCR 2022), 10 – 11 December 2022, BIT Sathyamangalam
- 21. "Performance Analysis of Cat Swarm Optimization with Soft Discriminant Classifier for Diagnosis of Epilepsy using EEG Signals", Second International Conference on Smart Technologies, Communication, and Robotics 2022 (IEEE-STCR 2022), 10 – 11 December 2022, BIT Sathyamangalam
- 22. "Analyzing Haar and dB2 with Compensatory GMM Classifier for Epilepsy Detection", Second International Conference on Smart Technologies, Communication, and Robotics 2022 (IEEE-STCR 2022), 10 – 11 December 2022, BIT Sathyamangalam
- 23. "Performance Analysis of Lion Optimization Algorithm with Hybrid Classifier for Epilepsy Detection", Second International Conference on Smart Technologies, Communication, and Robotics 2022 (IEEE-STCR 2022), 10 – 11 December 2022, BIT Sathyamangalam
- 24. Performance Analysis of Correlation Dimension with Hybrid GMM-FF Classifier for Alcoholic EEG signal Detection" Third International Conference on Circuits, Signals, Systems and Securities (ICCSSS - 2023), 13th – 14th May 2023, BIT Sathyamangalam
- 25. "Performance Analysis of Correlation Dimension Classifier for the Detection of Oral Cancer" Third International Conference on Circuits, Signals, Systems and Securities (ICCSSS - 2023), 13th – 14th May 2023, BIT Sathyamangalam.
- 26. "Enhancing Security in MANET through EAACK: A Novel Approach for Node Detection, Acknowledgment Validation and Routing Optimization", 4th International Conference on Communication, Computing and Industry 6.0, C216 December 2023.
- 27. "Enhancement in 6G Intelligent Network Technologies using Cognitive Radio Network"4th International Conference on Communication, Computing and Industry 6.0, C216

	December 2023.				
	National Conferences				
	 "MPPT Based on Thermal Electric Power Generator" a paper was presented a Naticonference on "CEIET-17", at Cheran College of Engineering, Karur held on March 2017. 				
	2. "Design FPGA Based Mac Architecture By using MSP 430 Processor" a paper was presented a National conference on "NCRTCCEE"16, at Annai Mathammal Sheela Engineering College, Namakkal held on March 18 th 2016.				
	presented a National conference technology, Coimbatore held or 4. "Design FPGA Based Mac A	architecture by Using MSP 430 Processor" a paper was ce on "NCKSRCE"14, at KSR College of Engineering,			
8.	Honors and Awards	 Won the Best Faculty Award for the academic year 2016-2017 Secured University Rank 26th Place in Master of engineering. Won the M.E (Design of FPGA based DC-DC Converter by using MSP430 Processor) best project award for the batch 2013-2014 			
9.	Achievements	 "Basic Electrical and Electronics Engineering" a book was published CHARULATHA PUBLICATION, Academic year 2015-2016 "Signals and Systems" a book was published CHARULATHA PUBLICATION, Academic year 2018-2019 ISBN: 978-93-86532-80-0. 			
		 Delivered the Guest Lecture on "Design of Electrical Machines- EE6604", SRG Engineering College 21st April 2018. Delivered the Seminar on "Investigation on Performance Analysis of Electrocardiogram Signals using Various Classification Machine Learning Algorithms", Bannari Amman Institute of Technology 20th Inte 2021 			
		 Technology, 30th July 2021. Delivered the Seminar on "Analysis and Classification of ECG Signal based on Different Dimensionality Reduction Techniques with Multiple classifiers", Bannari Amman Institute of Technology, 10th November 2022. Delivered the Guest Lecture on "ECG Signals through Bio-Inspired Classifiers with Hyperparameter Tuning", Sri Krishna College of Technology 02nd November 2023 and 03rd November 2023. 			

10.	Memberships	≻	Life member: IAENG
11.	Patents	1.	"An Automated Adaptive Self Power Generate
			Garbage Notification System", OFFICIAL
			JOURNAL OF THE PATENT OFFICE, 22 nd Feb
			2019 Application no. 201911004222 A.
		2.	"A Portable Device for Leadless Heart Rate
			Monitoring and Detection of Different
			Arrhythmias through a Computational Intelligence
			Techniques", OFFICIAL JOURNAL OF THE
			PATENT OFFICE, 05th September 2023 Application
			no. 202341059556 A.
		3.	"An Innovative Wearable Device Interface for
			Heart Rate Monitoring using Artificial Intelligence
			Techniques", OFFICIAL JOURNAL OF THE
			PATENT OFFICE , 21 st September 2023 Application
			no. 202342063394 A.
		4.	"A dexterous Static RAM for handheld
			applications", OFFICIAL JOURNAL OF THE
			PATENT OFFICE, 07th October 2023 Application
			no. 202341067350 A.
		5.	"Health Flush: The Urinalysis Toilet", OFFICIAL
			JOURNAL OF THE PATENT OFFICE, 25 th
			November 2023 Application no. 202341080125 A.
		6.	"Development of PCR Device using
			STM32MP135F-DK AND OPENGL", OFFICIAL
			JOURNAL OF THE PATENT OFFICE, 04 th
			December 2023 Application no. 202341082361 A.
		7.	"Development of Wireless Charging Station Using
			STM32MP135F-DK and OpenGL" OFFICIAL
			JOURNAL OF THE PATENT OFFICE, 18 th
			December 2023 Application no. 202341086267 A.
		8.	"Development of OEE (overall equipment
			effectiveness) monitoring system using embedded
			technology" OFFICIAL JOURNAL OF THE
			PATENT OFFICE, 16 th May 2024 Application no.
			202441038126.

12.	Other Activities	Coordinator: Symposium, Workshop, International		
		Conferences		
		> Organized National Level Technical Symposium for		
		students		
		 Organized National Level Workshop for Students 		
		 Organized National Level Project Expo for Students 		
		> Organized IEEE, AIP Conferences, EPICS 2024,		
		RESET 2024		
13.	Photo			

Peer Review Details				
Verified Peer Reviews	Quartiles			
IEEE Access	22	Q2		
ETRI Journal	06	Q3		
IET Signal Processing	04	Q3		
IETE Journal of Research	02	Q3		
IEEE Journal of				
Biomedical and Health	40	Q1		
Informatics				
Scientific Report	02	Q1		
BMC Medical Informatics	01	01		
and Decision Making	01	Q1		
Computer Methods in				
Biomechanics and	03	Q4		
Biomedical Engineering				