Kathir College of Engineering Faculty Profile

Dr L Nagarajan Assistant Professor Electrical and Electronics Engineering				
Qualification		Ph.D		
Area of Specialization		Power Quality/Renewable Energy Systems/Power Converters		
Email		nagarajanl.eee@kathir.ac.in		
Mobile Number		9489559051		
Membership in Professional Bodies				
Total Experience in (Years) : 15.8 Years				
Industry		Academic		
Experience in Years: 01		Experience in Years : 14 Years 8 Months		
Publication Details				
Number of Papers	Journal Publications	S	Conference Publications	
Published	16		4	
Book Chapter: Ali, A.N., Ganesh, J., Subramanian, A.T.S., Nagarajan, L. , Subhashree, G.R. (2023). "Pandemic Effect of COVID-19: Identification, Present Scenario, and Preventive Measures Using Machine Learning Model" System Design for Epidemics Using Machine Learning and Deep Learning, pp 1- 18. https://doi.org/10.1007/978-3-031-19752-9_1 [Part of the Signals and Communication Technology book series (SCT)]				

Conforances			
AN FEFICIENT SOLAR / WIND/ BATTERY HYBRID SYSTEM WITH HIGH POWER CONVERTER			
USING PSO. S Nandhini L Nagarajan International Journal of Engineering Research &			
Science and Technology 4 (1), 13, 2015			
CURRENT SOURCE INVERTER FED INDUCTION MOTOR DRIVE USING MULTICELL CONVERTER			
WITH ANFIS CONTROL L Nagarajan S Vinusha International Journal of Engineering and			
Research & Science and Technology. Vol-1, 2015			
AN ADAPTIVE CONTROL AND IMPROVEMENT OF POWER QUALITY IN GRID CONNECTED			
SYSTEM USING POWER ELECTRONIC CONVERTERS. K Jothiswari L Nagarajan			
International Journal of Engineering and Research & Science and Technology, 2015			
ANALISIS AND DESIGN OF AN ISOLATED BI - DIRECTIONAL AC - DC CONVERTER FOR THE			
Electrical and Electronics Engineering (SSRG-LIEEE) 2015			
STOCHASTIC DYNAMIC OPTIMIZATION OF WIND ENERGY CONVERTER LISING MULTILEVEL			
INVERTER. V Vidhya, L Nagaraian Advances in Natural and Applied Sciences. 2016.			
IMPLEMENTATION OF VERTICAL AXIS WIND TURBINE USING PERMANENT MAGNET			
SYNC	HRONOUS GENERATOR. L.Nagarajan , G.Irfan , M.Mahalingam , S.Praveen ,		
B.Praç	gadesh International Journal for Modern Trends in Science and Technology, 2017		
Research	Type your Research Interests here:		
Interests/	• Overview –		
Fundings	Developed DVR power quality conditioner which mitigated Voltage Sag		
	and swell. Newadays the newer quality problem has become a major issue to deal		
	Nowadays the power quality problem has become a major issue to deal with, in order to maintain quality supply. Modern generation greatly depends on electrical energy for improving their lifestyle. Modern equipment like computers, electric motors etc. cannot run without electricity. To improve performance, the equipment demands quality supply. One of the most frequently occurring power quality problems in transmission networks is voltage sag/swell. Such problems can cause heavy flow of current to reduce the life time of the equipment or can cause over voltage affecting the insulation level of the equipment. Many modern custom devices are present to mitigate such problems. Among them, Dynamic Voltage Restorer (DVR) is efficient and cost effective.		
	Solar Vehicles Development and Challenges		
	National Solar Vehivle Challenge 2018 No of students involved: 23 Fund Received: 2,10,500		
	Saur Urja Vehicle Championship 2019 No of students involved: 23 Fund Received: 1,87,000		

	<u>TNSCST – 2018</u>		
	No of students involved: 04		
	Fund Received: 10,000		
	NGI New Gen IEDC 2023		
	No of students involved: 04		
	Fund Received: 3,00,000		
Other relevant	Type any other relevant links/Information here:		
achievements,	- Two day Hands on Training on "Fraction and Smart Energy Utilization from		
links:	 Renewable sources" on 9th and 10th of September 2022 No students 		
	benefited: 69		
	"Webingr Poof Top Grid Connected Solar Plant Visit and E Vebicle		
	Seminar" under department association ELEKTRA Institute of Engineers		
	(India) and Energy Conservation Society on 31-03-2021. No students		
	benefited: 84.		
	• "One day Workshop on Simulation and Desian" of PCB using Proteus under		
	department association ELEKTRA, Institute of Engineers (India) on 01-02-		
	2019. No students benefited: 93.		
	• One day workshop on "A hands on training in Power Quality in Renewable		
	Energy Systems" under department association ELEKTRA, Institute of		
	Engineers (India) on 08-02-2019. No students benefited: 40.		
	• One Day Workshop on "SIMULATION DESIGN OF PCB USING PROTEUS" on		
	• Outcome based Value added course in "PCB Design" for 2nd and 3rd year		
	siddenis 23 10 50 of Joly 2018. No siddenis benefied. 78.		
	PATENTS:		
	• Title: An Improved O-Shaped Metamaterial Solar Absorber Design with		
	Broad Response for Renewable Energy Applications. Application Number:		
	202241070551.		
	• Title: An Artificial Intelligence Based Safety Door for Securing a Baby from		
	Kianapping and Monitoring Baby Activities. Application Number:		
	202241020043.		
	Google Scholar ID		
	qcMUb-4AAAAJ		
	https://scholar.google.com/citations?user=qcMUb-4AAAAJ&hl=en		
	Linked in ID		
	dringagraign-37863311g		