

PERSONAL DETAILS AND AFFILIATION		
Name of the Faculty member	Dr. S. Parvathi	
Designation	Assistant Professor	
Department	Electronics and Communication Engineering	
Date of joining the institution	01.08.2023	
Address for Communication	Department of ECE, Unnamalai Institute of Technology, Suba Nagar, Kovilpatti – 628 502.	
Email ID / Webpage	parvathi@uitkovilpatti.ac.in srathi2611@gmail.com ORCID webpage: https://orcid.org/0000-0002-0069-5135 Scopus webpage: https://www.scopus.com/authid/detail.uri?authorId=56884490600 Google Scholar: https://scholar.google.com/citations?user=HEYz5hAAAAAJ&hl=en	

EDUCATIONAL QUALIFICATION				
S.NO.	QUALIFICATION	INSTITUTION STUDIED	UNIVERSITY / BOARD	YEAR OF PASSING
1	SSLC	Government Girls Higher Secondary School, Kovilpatti	State Board	1998
2	Diploma EEE	Lakshmi Ammal Polytechnic College, Kovilpatti	DOTe	2001
3	B.E. ECE	MIT Campus, Anna University, Chennai	Anna University	2012
4	M.E. C&I	National Engineering College, Kovilpatti	Anna University	2014
5	Ph.D	National Engineering College, Kovilpatti	Anna University	2023

TEACHING EXPERIENCE						
S.NO.	NAME OF THE INSTITUTION / ORGANIZATION	POSITION HELD	FROM	TO	EXPERIENCE	
					Y	M
1	Unnamalai Institute of Technology	Assistant Professor	01.08.2023	Till Date	2	11
TOTAL TEACHING EXPERIENCE					2	11

RESEARCH EXPERIENCE						
1	National Engineering College	Full Time Research Scholar	30.06.2016	20.06.2023	6	11

FUNDED RESEARCH PROJECT EXPERIENCE						
1	National Engineering College – DST Ministry of Science & Technology	Junior Research Fellow (JRF)	15.10.2015	17.09.2017	1	11
		Senior Research Fellow (SRF)	18.09.2017	18.09.2018	1	-
TOTAL EXPERIENCE					2	11

PATENT DETAILS				
S.NO.	TITLE OF THE INVENTION	NAME OF INVENTOR	APPLICATION NO	PUBLICATION DATE
1	A DEVICE AND AN APPARATUS FOR SCALING AND HARVESTING WOODY AND LEAFY MEMBERS BEARING COCONUTS	1. Parvathi Subramanian 2. Tamil Selvi Sankar	202341073804	15.12.2023

LIST OF SCI/SCOPUS JOURNAL PUBLICATION	
1	Subramanian, P. , Durairaj, S. Diabetic retinopathy detection and categorization using deep learning. International Journal of Diabetes in Developing Countries (2026). DOI: 10.1007/s13410-026-01678-z
2	Durairaj, S., Subramanian, P. & Swamy, C.S.M. Classification of diabetic retinopathy severity level using deep learning. International Journal of Diabetes in Developing Countries (2024). DOI: https://doi.org/10.1007/s13410-024-01329-1 . Impact factor: 0.9.
3	Subramanian, Parvathi , Sankar & Tamil Selvi 2021, ‘Development of a novel coconut tree-climbing machine for harvesting’, Mechanics Based Design of Structures and Machines, vol. 51(5), pp.2757-2775, DOI: https://doi.org/10.1080/15397734.2021.1907756 , Impact Factor: 2.286.
4	Parvathi, Subramanian , Tamil Selvi Sankar 2021, ‘Detection of maturity stages of coconuts in complex background using Faster R-CNN model’, Biosystems Engineering, vol. 202, pp.119-132, DOI: https://doi.org/10.1016/j.biosystemseng.2020.12.002 , Impact Factor: 4.123.

5	Dr. D. Santhi, Dr. D. Manimegalai, Mrs. S. Parvathi , and Dr. S. Karkuzhali 2016, "Segmentation and classification of bright lesions to diagnose diabetic retinopathy in retinal images", Biomedical Engineering / Biomedizinische Technik - De Gruyter Vol.61, Issue.4, pp.443-453, April-2016, DOI: DOI 10.1515/bmt-2015-0188.
6	Mrs. S. Parvathi , Dr.D.Santhi 2015, "Segmentation of Bright Lesions in Diabetic Retinopathy Retinal Images" International Journal of Applied Engineering Research Vol.10, Issue.20, pp.19834-19839, September-2015.

BOOK CHAPTERS PUBLISHED

1	Subramanian P. , Sankar T.S. (2022) Coconut Maturity Recognition Using Convolutional Neural Network. In: Uddin M.S., Bansal J.C. (eds) Computer Vision and Machine Learning in Agriculture, Volume 2. Algorithms for Intelligent Systems. Springer, Singapore. https://doi.org/10.1007/978-981-16-9991-7_7
2	Dr.S.Tamil Selvi, S.Parvathi (2020) Application of Artificial Intelligence and Machine Learning in Agriculture, in Recent Developments in Computing, Electronics and Mechanical Sciences (ISBN: 978-81-941281-9-9) published by ANVI Books & Publishers, Delhi during June - July, 2020.

LIST OF INTERNATIONAL CONFERENCE PUBLICATIONS

1	P. Subramanian and S. Durairaj, "Segmentation of Lesions from Fundus Images to Grade the Diabetic Retinopathy," 2023 Intelligent Computing and Control for Engineering and Business Systems (ICCEBS), Chennai, India, 2023, pp. 1-6, doi: 10.1109/ICCEBS58601.2023.10448627.
2	Parvathi, Subramanian & Tamil Selvi Sankar 2021, 'Short review on climbing machines and its applications for the development of coconut tree climber for harvesting', IEEE International Conference on Emerging Technologies and Applications for a Smart and Sustainable World (ICEmTASS'21)', National Engineering College, Kovilpatti, during December 16-18, 2021.
3	Parvathi, Subramanian & Tamil Selvi Sankar 2017, 'Design and fabrication of a 4 DOF robot arm for coconut harvesting', IEEE International Conference on Intelligent Computing and Control, Karpagam College of Engineering, Coimbatore, during June 23-24, 2017.
4	Parvathi, Subramanian & Santhi D "Segmentation of Bright lesions in Diabetic Retinopathy Retinal Images", International conference on "ICIIECS – Innovations in Information, Embedded and Communication Systems", Karpagam College of Engineering, Coimbatore during March 13-14, 2014.
5	Parvathi, Subramanian & Santhi D "Detection of Drusen in Retinal Images for the Diagnosis of Diabetic Retinopathy", International conference on "ENIAC-Explorations and Innovations in Advanced Computing", National Engineering College, Kovilpatti during January 8-10, 2014.

WORKSHOPS / SEMINARS / TRAINING PROGRAMS ATTENDED	
1	Attended two-day Hands-on training programme on “Embedded System Design using ARM7 LPC2148” organized by Electronics and Instrumentation Engineering department, National Engineering College, Kovilpatti during 02 nd and 03 rd December 2016.
2	Attended seminar on “2 nd SERB School on Robotics”, organized by Indian Institute of Technology Madras, Chennai during November 14-19, 2016.
3	Attended National Seminar On “RINDE’13 - Research Issues on Non Destructive Evaluation” organized by Electronics and Instrumentation Engineering department, National Engineering College, Kovilpatti during September 19-21, 2013.

S. PARVATHI