

Dr. K. Kavitha, M.E., Ph.D.,

Associate Professor / ECE

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Educational Qualification:

S.No	Name of the Degree	Institution/ University	Year Of passing
1.	B.E	Raja college of Engineering, Madurai.	2003
2.	M.E	Thiagarajar College of Engineering, Madurai	2007
3.	Ph.D	Anna University, Chennai	2016

Experience in Years: 13 Years

Employment History:

S.No	Name of the College/Industry	Period	Year of Service
1.	Seethaiammal Engineering College	2003 to 2004	1 Year
2.	K.L.N. College of Engineering	2004 to 2005	1 Year 1 Month
3.	K.L.N. College of Information Technology, Madurai	2009 to 2017	8 Years and 4 Months
4.	Velammal College of Engineering and Technonlogy	2017 to till date	4 year 6 months
	Total Experience	13 Years and 8 Month	

Interested Research Areas: Biomedical Signal Processing, Machine Learning

List of Publications:

National / International Journal:

1. **Kavitha, K** Vasuki, S & Karthikeyan, B 2021, ‘PPG Signal Denoising using a New Method for the Selection of Optimal Wavelet Transform Parameters’ Journal of University of Shanghai for Science and Technology, Volume 23, Issue-10.
2. **Kavitha, K** & Manikandan, S 2015, ‘LMMSE Channel Estimation Algorithm Based on Channel Autocorrelation Minimization for LTE- Advanced with Adaptive Guard

Interval', Wireless Personal Communications, Springer, April 2015, vol. 81, issue 3, pp. 1233-1241.

3. **Kavitha, K & Manikandan, S 2015, 'Improved Linear Channel Estimation Based on Channel Shortening Prefilter for OFDMA Based WiMAX Systems', International Journal of Applied Engineering Research (IJAER), vol. 10, no. 23 (2015) pp. 43655-43658 Research India Publications**
4. **Yamini, S & Kavitha, K 'An Inter Block Interference Nullin Algorithm Based on Tomlinson–Harashima Precoding for LTE-A Systems', International Journal of Innovative Research in Science, Engineering and Technology (IJIRCET), Volume 3, Special Issue 3, March 2014.**

National / International Conference:

S. No.	Title of the Paper	Name of the Conference	Host of the conference	Date
1.	Lung Cancer Detection using Deep Learning Techniques	10 th International Conference on Contemporary Engineering and Technology 2022	Organization of Science and Innovative Engineering and Technology, Chennai	21.5.2022 & 22.05.2022
2.	Analysis of Machine Learning Algorithms For Heart Sound Classification	International Conference on Artificial Intelligence & Smart Computing (ICAISC 2020)	Bannari Amman Institute of Technology	15-10-2020
3.	Analysis of Non Linear SVM Learning Algorithms In Distinguishing Patients with Appendicitis And Pancreatitis Using Wrist Pulse Doppler Blood Flow Signals	International Conference on Artificial Intelligence & Smart Computing (ICAISC 2020)	Bannari Amman Institute of Technology	15-10-2020
4.	Time Domain Raised Cosine-Binary Coded Symbol for Modulation of IRNSS SPS PRN Code	International Conference on Artificial Intelligence & Smart Computing (ICAISC 2020)	Bannari Amman Institute of Technology	17-10-2020
5.	Analysis and Classification of Lung Sound using Machine Learning Algorithm	Intelligent Computing and Automation– INSTRUVISION'21	Kamaraj College of Engineering and Technology	09-04-2021
6.	Dr.K.Kavitha , Heterogenous Feature Extraction Using Decision Fusion Algorithm for Wrist Pulse Diagonisis , ICECE128 2018.			
7.	Dr.K.Kavitha, Hookworm Detection in Wireless Capsule Endoscopy Images with Machine Learning , National conference on Smart Computing & Advanced communication(SCAC'19).			

Sanctioned Sponsored Research Projects as Co-PI

S.No.	Title of the Project	Funding Agency	Fund Sanctioned
1.	Nadipariksha - Resurrection Using Advancements in Signal Processing Techniques	DST	24.74 Lakhs
2.	Early Forest Fire Detection Via Principal Component Analysis Of Multi Spectral Imaging	AICTE – RPS	6 Lakhs

Any Others

- Acquired ELITE Certificate on “Fundamentals of Wavelet and Multirate Digital Signal Processing” in NPTEL Online Course during February, 2017 to April, 2017.
- Acquired a Seminar Grant of Rs. 30,000/- from Council of Scientific Research (CSIR) towards the conduct of National Seminar during 5/2/13 & 6/2/13