Name:Dr.K.Moorthi	
Designation:	Associate Professor
Qualification:	B.E., M.E., Ph.D.
Area of specialization:	IMAGE PROCESSING, VLSI

Experience : **(As on May2019)**	**Industrial Experience**		**Teaching Experience**	
	--		17 Years	

Number of workshop / FDP organized:	**Workshops**	**FDPs**	**Conferences**
	-	-	-

Number of workshop / FDP attended:	02	17	4

Publications:	**Conference**		**Journal**	
	National	**International**	**National**	**International**
	1	3	-	10

Professional Body Membership:	IEEE,ISTE, IAENG
Staff Achievements:	Received a Grant of 1 lakh from IEDC for students project "Pre-emptive signal switching for emergency vehicles using dynamic GPS"

EXPERIENCE: ACADEMIC

S.No.	Name and Address of the Institution	Designation	Period of Experience
1	Adhiparasakthi Engineering College, Melmaruvathur	Lecturer	3 years 6 months (11.12.2006-01.06.2010)
		Asst. Prof.	11 years 3 months (01.06.2010-30.09.2021)

2	Sri ManakulaVinayagar Engineering College, puducherry	Asst. Prof.	8 months (01.10.2021- 30.05.2022)
3	Sri Sai Ram Engineering College, SaiLeo Nagar, West Tambaram, Chennai-600044.	Asst. Prof.	23.06.2022- Till date

WORKSHOP / FDP / CONFERENCE:

S. No.	Name of the Program	Name of the Institution	No. of Days	Date
1.	Quantum Computing and its Future Scope	Sri Sairam Engg. College, ATAL FDP	6 days	18th to 26th dec 2023
2.	Introduction to Industry 4.0 and Industrial Internet of Things	NPTEL-AICTE	-	Jul to Oct 2023
3.	Digital IC design	NPTEL-AICTE	-	Jan to Mar 2023
4.	Introduction to Internet of Things	NPTEL-AICTE	-	Jul to Oct 2022
5.	Recent trends in 5G Communication networks	Sri Sairam Engg. College	5 Days	26th to 30th dec 22
6.	Machine Learning and Deep Learning	SRM Institute of Science and Technology	5 Days	11th to 15th Oct 22
7.	Matlab Simulations of 5G Wireless Technologies	IIITDM, CHENNAI	5 days	28th to 4th March 2022
8.	Faculty Development Training Program on VLSI Design	Adhiparasakthi Engineering College	7 days	5th to 12th December 2014
9.	Mobile and Pervasive Computing	Anna University, MIT Campus	7 days	3rd to 9th June 2013
10.	Analog IC Design	Anna University, MIT Campus	2 days	14th and 15th September 2012
11.	Application of Digital Filters in DSP Problems	Adhiparasakthi Engineering College	12 days	May 3 to 15, 2012
12.	Advanced VLSI Design	SSN College of Engineering	3 days	Nov. 17 to 19, 2011
13.	Robotics	Adhiparasakthi Engineering College	2 days	Sep. 9 to 10, 2011
14.	Signal Processing using MATLAB	Sathyabama University	1 day	23rd July 2011
15.	VLSI for Signal Processing	Anna University, MIT Campus	2 days	14th and 15th March 2011
16.	MIMO OFDM Wireless Systems	SRM University	1 day	28th August 2010

17.	Design and Testing of VLSI Circuits	Adhiparasakthi Engineering College	2 days	18th and 19th February 2010
18.	Seminar on Embedded Systems using AVR Tools	Accent e Technology Pvt. Ltd.	1 day	30th July 2009
19.	Seminar on Exploring MATLAB and its tools	Adhiparasakthi Engineering College	4 days	July 13th to 16th 2012
20.	Seminar on Exploring MATLAB and its tools	Adhiparasakthi Engineering College	5 days	August 6th to 10th 2012
21.	Emerging Trends in Wireless Embedded Systems	Adhiparasakthi Engineering College	1 day	4th April 2009
22.	Recent Trends in VLSI and Embedded Systems	Adhiparasakthi Engineering College	2 days	27th and 28th July 2007

CONFERENCE

S. No.	Title	Month/Year
1	Low Power Keeper Technique for Dynamic CMOS Logic Circuits- International Conference on 2nd World Conference on Applied Sciences Engineering and technology, WCSET 2013	8th and 9th March 2013
2	FPU for Coarse Grain Reconfigurable Architecture- International Conference on Communication and Signal Processing (ICCSP 2012)	4th and 5th April 2012
3	Coarse Grain Reconfigurable Architecture for Multi domain applications- International Conference on Futuristic Trends in Electronic Engineering	28th and 29th January 2012
4	Neural Network Controller for UPS Inverter Applications - ETES 2006, Nooral Islam College of Engineering	10th and 11th March 2006

Publications:

S. No	Title& Journal Name	Vol. / Date
1.	De-noising of salt and pepper noise using deep learning-based alpha-guided grey wolf optimization, Applied Soft Computing.	Volume 130, November 2022
2	Removal of Salt and Pepper Noise from SAR Images Using Optimized APCNN in Shearlet Transform Domain, Arabian Journal of Geosciences	Volume 14, issue 6, March 2021
3	Removal of HighDensity Impulse Noise using IAgGWO-APCNN filtering in Transform domain, Wireless Personal Communications	November 2021

4	A Comparative Study on FIR Filters for Reconfigurable Applications, International Journal of Information and Communication Sciences	vol.3, No.1, ISSN: 2575-1700, 2018
5	Buffer aided relaying system with energy harvesting nodes, International journal of Engineering Sciences and research technology	Page 183-189, ISSN: 2277-9655, 2015
6	"Performance analysis of wireless cooperative networkfor decode-amplify and forward relaying with energy harvesting constraint", International journal of Engineering sciences and research technology	page 470-476, 2015, ISSN:2277-9655.
7	"VLSI Implementation of 4x4 MIMO SC-FDMA transceiver for low powerapplications" international journal of applied Engineering research,	volume 10 (5),page 11835-11852, 2015, ISSN: 0973-4562.
8	" Area efficient, low power, high performance cached FFT processor forMIMO OFDM application"	volume 10 (5), page:11853-11868, 2015,ISSN:0973-4562.
9	"coarse grain reconfigurable floating point unit", International journal ofinnovative research in information security (IJIRIS)	Volume 1 and issue 4, page1-5, 2014,ISSN:2349-7009.
10	"Reversible watermarking based on encryption image classification anddynamic color techniques" in International journal of Innovative research in sciences Engg. and tech.	February 2014

Books Published

- Dr.J.Raja, Dr.P.Mangayarkarasi, K. Moorthi "Digital Signal Processing" Charulatha Publications. R2013.
- Dr.J.Raja, Dr.P.Mangayarkarasi, K. Moorthi "Signals and Systems" Charulatha Publications. R2013.
- Dr.J.Raja, Dr.P.Mangayarkarasi, K. Moorthi "Wireless Communication" Charulatha Publications. R2013.
- Dr.J.Raja, Dr.P.Mangayarkarasi, K. Moorthi "Electromagnetic Fields" Charulatha Publications. R2013.
- Dr.J.Raja, B.Ganesamoorthy, K. Moorthi "VLSI Design" BKF publishers. R2013