

Dr. P. Kavitha, M.E., Ph.D.,  
 Associate Professor / ECE  
 Velammal College of Engineering and Technology, Madurai  
 e-Mail Id: pka@vcet.ac.in

**Educational Qualification:**

S.No	Degree/ Diploma	Branch/ Specialization	Institution/ University	Month & Year of Passing
1	Ph.D	Wireless Communication	Anna University, Chennai	March 2019
2	PG	Communication Systems	Thiagarajar College of Engineering	2009
3	UG	ECE	Periyar Maniammai College of Engg., and Tech., for women	2002

**Experience in Years: 13 years and 9 months**

**Employment History:**

S. No	Name of the post held	Name of the Employer / Institution	Period of Employment			
			From Date	To Date	Years	Months
1	Associate Professor	Velammal College of Engineering and Technology, Madurai	09.08.2021	Till date		
2	Assistant Professor (Senior Grade)	National Engineering College, Kovilpatti	01.11.2011	31.07.2018	6	9
3	Senior Lecturer	National Engineering College, Kovilpatti	07.04.2011	31.10.2011		6
4	Lecturer	National Engineering College, Kovilpatti	01.06.2009	06.04.2011	1	10
5	Lecturer	National Engineering College, Kovilpatti	04.06.2003	20.07. 2007	4	1
6	Lecturer	National Engineering College, Kovilpatti	18.11.2002	30.04. 2003		5

**Interested Research Areas: Wireless communication, Signal Processing**

## **Publications Details:**

### **1. Patent Journal Publication Details: ---**

### **2. International Journal Publication Details:**

- P. Kavitha, S. Shanmugavel, “Analytical Evaluation of Chunk-based Tractable Multi-cell OFDMA system”, Radioengineering Journal, vol. 27, no.1, pp. 313-325, April 2018.(Impact Factor: **1.048**)
- P. Kavitha, S. Shanmugavel, “Spectral Efficiency Analysis of Multi Cell OFDMA System with Sectoring”, ICTACT Journal on Communication Technology, vol.: 08, no.: 01, March 2017.

### **3. International Conference Presentation Details:**

- P. Kavitha, S. Shanmugavel, “Spectral Efficiency Analysis of Chunk Based Multi-Cell OFDMA System Over Nakagami-m Fading Channel”, International conference on Advanced Computing & Communication Systems 2017.
- P. Kavitha, S. Shanmugavel, “Performance Analysis of Resource Allocation in LTE OFDMA Systems”, International conference on Smart System Technologies 2017.
- P. Kavitha, S. Shanmugavel , “Spectral efficiency analysis of Multi cell OFDMA System with sectoring”, International Conference on Broadband and Wireless Technologies, June 2016.
- D. Sivasankari, P. Kavitha, “Outage probability and outage capacity in Multi-cell OFDMA system”, International Conference on Emerging Trends in Engineering, Technology & Management(ICETM-2015), 16-18 April 2015.
- S. Deepa Princy, P. Kavitha , “Joint Subcarrier and Power Allocation in LTE-Advanced Networks”, International Conference on Emerging Trends in Engineering, Technology & Management(ICETM-2015), 16-18 April 2015.
- B.S. Sujethra, P. Kavitha , “Detection Assessment of Macular Edema from Color Retinal Images”, International Conference on Emerging Trends in Science, Engineering, Business and Disaster Management (ICBDM-2014) , 28<sup>th</sup> February, 2014.
- R. Saranya, P.Kavitha, “Detection and Correction of Sample Clock Offset in LTE downlink”, International Conference on Computational intelligence and advanced manufacturing research( ICCIAMR – 2013).
- M.Vijayalakshmi, P.Kavitha, V.Vijayarangan, “Various Equalization Techniques in Receiver of MIMO OFDM System based LTE Standard”,International Conference on Electronics and Communication Engineering (ICECE 2012 ), 6-7 April 2012.
- M.Vijayalakshmi, P.Kavitha, V.Vijayarangan, “Performance comparison of LTE based MIMO OFDM System”, International Conference Emerging Trends in information and Communication, 2012.
- G. Ananthi, P. Kavitha , K. Ulagammal, S. J. Thiruvengadam, “Performance Analysis of MIMO Ad Hoc Networks with Finite Rate Feedback and Imperfect CSIT”, International Conference on Wireless Communications, Networking and Mobile Computing(Wicom’09), China, Page:1- 4.

#### 4. National Conference Presentation Details:

- B. Dinesh Kumar, P. Kavitha P and V.Vijayarangan, “Channel Estimation for LTE Downlink System in High-Mobility Scenario”, AICTE Sponsored National Conference on Research Challenges in Wireless Communication Systems and VLSI Design (NCWCV-14), 14<sup>th</sup> and 15<sup>th</sup> March, 2014 organized by Department of Electronics and Communication Engineering, PSG College of Technology, Coimbatore.
- R. Saranya, P.Kavitha, “Sample Clock Offset Detection and Correction in LTE Downlink”, National Conference on Recent Trends in Information and Communication Engineering (NCRTICE-2013), 20<sup>th</sup> March 2013.
- S.Aruna Geetha, P.Kavitha, “Cell Search with PSS detection & frequency synchronization for LTE”, National Conference on Computational Emerging Trends in information and communication, 2013.
- Naveena A.Priyadharsini, P.Kavitha, “Data rate improvement in Underwater Acoustic Communication Using MIMO OFDM”, National Conference “PECON 2K11” conducted by Government College of Engineering, Tirunelveli, March 2011.
- K.Karpagavalli, P.Kavitha, “Quantifying the capacity loss in MIMO ADHOC Networks due to Imperfect CSIT”, in the proceedings of RACT’10.

#### Any others:

- NPTEL **Topper** for the course **Fundamentals of MIMO Wireless Communication** with the score of **94%** (Elite+**Gold Metal**)
- NPTEL **2% topper** for the course **Probability and Random Variables/Processes for Wireless Communications** with the score of **83%**(Elite)
- NPTEL **2% topper** for the course **Principles of Signals and Systems** with the score of **85%**(Elite)