

**Mrs.A.Maheswari,M.Sc.,M.Phil.,SET**

Assistant Professor I, Mathematics

Velammal College of Engineering and Technology, Madurai

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Blog Address:

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**Educational Qualification:**

M. Phil.,- Mathematics

M.Sc.,-Mathematics

**Experience in Years:**

**Employment History:**

1. Assistant Professor in Velammal College of Engineering and Technology, Madurai from June, 2008 to till date.
2. Lecturer in PGP College of Engineering& Technology, Namakkal from June 2001 to May 2008.

**Interested Research Areas: Fuzzy Algebra**

**Scholarships and Awards received: NIL**

**Funded Research Projects:**

Funding Agency:

Scheme:

Title:

Sanctioned Amount:

Year:

Principal Investigator(PI):

Co-PI:

**Patent rights received: NIL**

**Publications Details:**

**1. Patent Journal Publication Details:**

**Title:** Optimized Machine Learning Algorithms for Real-Time Signal Processing in Smart Grid Systems and Business Management Implementation, April 2025

**3. International Journal Publication Details:**

1. Mrs.A.Maheswari, M.Palanivelrajan "Introduction to Intuitionistic L-Fuzzy Semi Filter of Lattices", International Journal of Machine Learning & Computing, Vol.2, No.6, Dec 2012.
2. Mrs.A.Maheswari, S.Karthikeyan, M.Palanivelrajan "Characterization of level sets of Intuitionistic L-Fuzzy Semi Filter of Lattices", Notes on Intuitionistic Fuzzy Sets, Vol.18, No.2, 2012.

3. Mrs.A.Maheswari, S.Karthikeyan, M.Palanivelrajan, Properties of  $(\alpha, \beta)$  cut sets of Intuitionistic L-Fuzzy Semi Ideal of Lattices”, SSRG International Journal of Mathematics Trends and Technology, Special Issue, April 2014.
4. Mrs.A.Maheswari, S.Karthikeyan, M.Palanivelrajan, Some Operations on Intuitionistic L-Fuzzy Semi Filter of Lattices”, Antarctica Journal of Mathematics, Vol11, No.1, 2014.
5. Mrs.A.Maheswari, S.Karthikeyan, M.Palanivelrajan, “Model Operators on Intuitionistic L-Fuzzy Semi Filter”, International Research Journal of Engineering. & Technology, Vol.02, Issue 08, Nov.2015
6. Mrs.A.Maheswari, S.Karthikeyan, M.Palanivelrajan, “Properties of  $(\alpha, \beta)$  cut sets of Intuitionistic L-Fuzzy Semi Filter of Lattices”, Global Journal of Pure and Applied Mathematics, Vol.12, No.4 pg:49-52, 2016.
7. Mrs.A.Maheswari, S.Karthikeyan, M.Palanivelrajan, Shanmugalatha.A, “PSO Based Intuitionistic Fuzzy Optimization”, International Journal of Mathematical Archive, Special Issue, January 2018.
8. Mrs.A.Maheswari, S.Karthikeyan, M.Palanivelrajan, “PSO & GA Based Intuitionistic Fuzzy Optimization”, Journal Electrical Engineering, Vol.20, March 2020
9. Mrs.A.Maheswari, S.Karthikeyan, M.Palanivelrajan, “A distance measure between Intuitionistic Fuzzy Multi sets and its application in Medical Diagnosis”, Periodico di Mineralogia,

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

- International Conference on Machine learning and Computing, Singapore IEEE, Feb 26-28, 2011, Title: Introduction to Intuitionistic L Fuzzy Semi Filter of Lattices
- International Conference on Mathematics in Engineering and Business Management, (ICMEBM, 2012), Title: Properties of Intuitionistic L Fuzzy Semi Filter of Lattices, 9-10 Mar, 2012, Stella Maris College, Chennai
- International Conference on Intuitionistic Fuzzy Sets and Systems (ICIFSS-2018), 8-10, January, Conducted by the Department of Mathematics, Vellalar College for Women, Erode. Paper Presentation title: “PSO Based Intuitionistic Fuzzy Optimization”

### **4. National Conference Presentation Details:**

1. National Conference on Emerging Trends in Mathematics and Applications in Engineering and Technology (NCETMAET-2018), 22-23, March, 2018 Department of Mathematics Hindustan Institute of Technology & Science (Deemed University), Paper Presentation Title: PSO and GA based intuitionistic Fuzzy Optimization Problems
2. National Conference on Fresh 2011, Department of Mathematics, Angel College of Engineering and Technology, Tirupur, 11-12, Aug 2011, Paper Presentation Title-“Properties of Intuitionistic L Fuzzy Semi Filter”
3. National Seminar on Fuzzy Algebra, Govt Arts College, Paramakudi, Properties of  $(\alpha, \beta)$  cut set of ILFSI of Lattices, 10,11 Apr. 2014

4. National Conference on Advanced Mathematics and its Applications to Science and Engineering, Dept of Mathematics, University College of Engineering, Pattukkottai, Title: Properties of  $(\alpha, \beta)$  cut sets of Intuitionistic L Fuzzy Semi Filter of Lattices, 22, Jan 2016
5. A two day National conference on “Discrete Mathematics And its Applications” (NCDMA 2022), July 15-16, Department of Mathematics, Velammal college of Engineering and Technology, Title: “A distance measure between Intuitionistic Fuzzy Multisets sets and its application in Medical Diagnosis”

## **5. Seminar, Workshop and FDP Participation Details:**

1. International Conference on E-learning, March 6-7, 2004, Department of CSE, PGP College of Engg & Tech., Namakkal and University of West Bohemia, Czech Republic.
2. National Level Seminar on Applications of Mathematics in Engineering and Sciences, Sona College of Technology, 24 Sep, 2005.
3. National Level Seminar on Recent Advances in Green Chemistry, (RAGC-2008), Department of Chemistry, Velammal College of Engineering and Technology, 14, Oct 2008.
4. National Seminar on Recent Trends in Cryptography (RTC,-2008), Department of Mathematics, Velammal College of Engineering and Technology, 7 Nov, 2008.
5. National Level Seminar on Applications of Artificial Intelligence to Control Systems, Department of EEE, Velammal College of Engineering and Technology, 11, Mar, 2009
6. National Seminar on Digital Image Processing Techniques of Engineering Applications, Department of Mechanical Engineering, Velammal College of Engineering and Technology, 24, Sep, 2009.
7. Two days workshop on Communication Skills and Enhancement, Department of English, Velammal College of Engineering and Technology, 6-7 May 2010
8. One day FDP on Mathematical Methods for Electrical Engineering (MMEE-11), Department of EEE. Velammal College of Engineering and Technology, 10, Oct, 2011.
9. DRDO sponsored Two Day National Level Seminar on Chemical Graph Theory, Department of Mathematics and Department of Chemistry, Velammal College of Engineering and Technology, 18-19, Oct, 2012.
10. One day Seminar on Advanced Theory in Matrices, National Engineering College, Kovilpatti, Department of Science and Humanities, 25, Oct, 2013
11. National Seminar on Recent Development in Fuzzy Algebra, Department of Mathematics, Govt. Arts College, 5 July, 2013, Paramakudi.
12. One day workshop on Linear Algebra, Estimation Theory and Multivariate Analysis, Department of Mathematics, Velammal College of Engineering and Technology, 18 Nov, 2013.
13. Three days Workshop on Counselling Skills, Department of English, Velammal College of Engineering and Technology, Jan 21-23, 2014.
14. Two day FDP in MATLAB Applications for Research Engineering Problems, Department of EEE, Velammal College of Engineering and Technology, 8-9, Oct 2014.
15. FDP on Strategies for writing Research Papers, Thesis, Project Proposals, Dept of EEE, Velammal College of Engineering and Technology, Mar, 09, 2016.
16. TEQIP II sponsored, Two day National Seminar on Applications of Fuzzy Mathematics in Engineering Studies, conducted by Department of Mathematics, 9-10 Mar, 2017, Thiagarajar College of Engineering, Madurai
17. One week FDP on “Software Tools for Mathematical Education”, Department of Mathematics, Bannari Amman Institute of Technology, 30 Aug – 5 Sep, 2021.
18. One week FDP on “Recent Trends in Mathematical Modelling and its Applications”, Department of Mathematics, 26 Feb – 2 March, 2024, SRM, Madurai.
19. Faculty Knowledge Sharing Programme on “Enhancing Classroom Engagement Through Technology, and Effective Course Planning, Assessments, and Rubrics” 11<sup>th</sup> July, IBS, Bangalore.
20. One week FDP on “Artificial Intelligence and its Applications”, Department of Mathematics and PG department of CSE, DAV College, Jalandhar, Punjab, Dec 16-21,

2024.

21. One week FDP on “Applied Mathematics in Real Time Problems”, Department of Mathematics, Velammal College of Engineering & Technology, 5 May – 9 May, 2025.

## **6. NPTEL**

- Got NPTEL Online Certification for successfully completing the course on “Basics of Linear Algebra” with a consolidated score organized by IIT, Madras, 2022
- Got NPTEL Online Certification for successfully completing the course on “Introduction to Probability Theory and Stochastic Process ” with a consolidated score organized by IIT, Madras, 2024