

CURRICULUM VITAE

NAME: **Dr. Geetha Sivaraman,**
MAILING ADDRESS: **No.6, Street 23, NIT Quarters,
National Institute of Technology,
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EDUCATIONAL QUALIFICATION:

- a) Bachelor of Science (B.Sc) in **Mathematics**, Madurai Kamaraj University, India (1995-1998).
- b) Master of Science (M.Sc) in **Mathematics**, Madurai Kamaraj University, India (1998-2000).
- c) Master of Philosophy (M.Phil) in **Mathematics**, Madurai Kamaraj University, India (2000-2001).
- d) Doctor of Philosophy (Ph.D) in **Fuzzy Mathematics and its Applications**, Department of Mathematics, Anna University, Chennai, India, 2008.

SPECIALISATION:

Modern Analysis **Topology**
Fuzzy Structures **Engineering Mathematics**

TEACHING EXPERIENCE:

Lecturer in Mathematics, **Mother Teresa Women's University College**, Kodaikanal:
July 2001 to April 2002.

Lecturer in Mathematics, **Sethu Institute of Technology**, Kariappatti, Madurai: June
2005 to October 2005.

Lecturer in Mathematics, **Anna University**, Tiruchirappalli: October 2007 to June 2008.

Assistant Professor in Mathematics, **Periyar Maniammai University**, Tanjore: June,
2009 to June, 2010.

Associate Professor in Mathematics, **M.A.M College of Engineering**, Tiruchirappalli:
September, 2010 till date.

Assistant Professor in Mathematics, **St. Joseph's College**, Tiruchirappalli: 10-7-2013till date

AWARDS/HONOURS:

- **Women Scientist** (WOS A), Department of Science and Technology (DST), India
- **Young Scientist**, Tamil Nadu State Council for Science and Technology (TNSCST), Tamil Nadu

PROFESSIONAL MEMBERSHIP:

- **Life Member of Indian Mathematical Society (IMS)**
- **Life Member of Indian Society for Technical Education (ISTE)**

STUDENTS GUIDED (M.PHIL/PH. D):

Guided 15 M. Phil Students and 2 Ph. D Scholars. One Ph.D Scholar is pursuing her research.

PUBLICATIONS:

Sl. No	Title of Paper/Report/Book	Author(s)	Name, Volume and No. of Journal and Year of Publication	Page No.	
				From	To
1.	Fuzzy Decision Making in Health Care	Geetha Sivaraman and V.Lakshmana Gomathi Nayagam	Proceedings of National Conference on Mathematical Modelling and Analysis, 8, 9 October 2004, BITS, Pilani, Rajasthan	357	364
2.	Nearly Fuzzy Regular Spaces	Geetha Sivaraman and V. Lakshmana Gomathi Nayagam	International Journal of Fuzzy Mathematics Vol. 15, No.4 2007	797	810
3.	On Nearly Fuzzy Hausdorff Spaces	V. Lakshmana Gomathi Nayagam and Geetha Sivaraman	International Journal of General Topology Vol. 1, No. 2 2008	149	157
4.	Semi Hausdorff fuzzy filters	V. Lakshmana Gomathi Nayagam and Geetha Sivaraman	International Journal of Mathematics and Mathematical Sciences, Volume 2007 (2007), Article ID 92423.	1	10

5.	Intuitionistic Fuzzy translation invariant spaces	V. Lakshmana Gomathi Nayagam, David Gauld, Geetha Sivaraman and G.Venkateshwari	Proceedings of IEEE International conference on Fuzzy Systems (FUZZ-IEEE 2008), Hong Kong	2157	2161
6.	Ranking of Intuitionistic fuzzy numbers	V. Lakshmana Gomathi Nayagam, G.Venkateshwari and Geetha Sivaraman	Proceedings of IEEE International conference on Fuzzy Systems (FUZZ-IEEE 2008), Hong Kong	1971	1974
7.	Induced Topology on fuzzy singletons	V. Lakshmana Gomathi Nayagam and Geetha Sivaraman	Far East Journal of Applied Mathematics volume 32 issue 2, 2008	189	198
8.	Induced Topology on Intuitionistic fuzzy singletons	V. Lakshmana Gomathi Nayagam and Geetha Sivaraman	International Journal of General Topology Volume 1, issue 2, 2008	193	200
9.	Strong Fuzzy Topological Groups	V.Lakshmana Gomathi Nayagam, David Gauld, G.Venkateshwari and Geetha Sivaraman	New Zealand Journal of Mathematics, Vol.38, 2008	187	195
10.	Ranking of Fuzzy Numbers by a new scoring method	V. Lakshmana Gomathi Nayagam, Geetha Sivaraman and S.Murali Krishnan	Inter. J. of Engineering, Computer Science and Mathematics, Vol.1 No.1	19	29
11.	Intuitionistic fuzzy Decision Making	Geetha Sivaraman and K.Sumithra	PMU Journal of Humanities and Sciences, Vol.1	77	82
12.	Two dimensional Fuzzy Decision Making	Geetha Sivaraman	International Journal of Mathematics in Operational Research	In Press	
13.	Multi criteria decision making method based on interval valued intuitionistic fuzzy	V. Lakshmana Gomathi Nayagam, S.Murali Krishnan and Geetha Sivaraman	Expert Systems with Applications 38 (2011)	1464	1467

	sets				
14.	Ranking of Interval-valued Intuitionistic Fuzzy sets	V. Lakshmana Gomathi Nayagam and Geetha Sivaraman	Applied Soft Computing, Volume 11, Issue 4, June 2011 doi:10.1016/j.asoc.2011.01.008	3368	3372
15.	Fuzzy translation invariant spaces	V.Lakshmana Gomathi Nayagam, G.Venkateshwari and Geetha Sivaraman	International Journal of General Topology Volume 14, No.1, 2011	67	73
16.	Intuitionistic Fuzzy Interval Information System	Geetha Sivaraman, V.Lakshmana Gomathi Nayagam, R. Ponnalagusamy	International Journal of Computer theory and Engineering, Vol 4, No.3.	459	461
17.	A novel similarity measure between generalised Fuzzy numbers	V.Lakshmana Gomathi Nayagam, Geetha Sivaraman	International Journal of Computer theory and Engineering, Vol 4, No.3.	448	450
18.	A complete ranking of incomplete interval information	Geetha Sivaraman, V.Lakshmana Gomathi Nayagam, R. Ponnalagusamy	Expert Systems with Applications ISSNO.: 0957-4174	1947	1954
19.	Complete ranking of intuitionistic fuzzy numbers	V.Lakshmana Gomathi Nayagam, S. Jeevaraj, Geetha Sivaraman	Fuzzy information and Engineering ISSNO.: 1616-8658	237	254
20.	Ranking of Incomplete trapezoidal information	V.Lakshmana Gomathi Nayagam, S. Jeevaraj, Geetha Sivaraman	Soft Computing ISSNO.: 1432-7643	7125	7140
21	A novel weighted average operator for trapezoidal intuitionistic fuzzy sets and its application to Multicriteria decision making problem	Geetha Sivaraman Vishnukumar. P Edwin Antony Raj. M	International Journal for Research in Engineering Application & Management (IJREAM) ISSN : 2454-9150 Year 2018	209	212
22	Trapezoidal intuitionistic fuzzy Topsis Method Based on an Improved Score Function	Geetha Sivaraman Edwin Antony Raj. M Vishnukumar. P	International Journal for Research in Engineering Application & Management (IJREAM) ISSN : 2454-9150 Year : 2018	425	429

23	A New Distance Measure on Interval Valued Intuitionistic Fuzzy Sets And Its Application To Pattern Recognition Problem	Geetha Sivaraman Vishnukumar. P Edwin Antony Raj. M	International Journal of Pure and Applied Mathematics ISSN: 1314-3395 Year : 2018	915	924
24	Ranking of Trapezoidal Intuitionistic Fuzzy Sets Based on Improved Accuracy Function And Solving Fuzzy Mcdm Problems Using Topsis Method	Edwin Antony Raj. M Geetha Sivaraman Vishnukumar. P	International Journal of Pure and Applied Mathematics ISSN: 1314-3395 Year :2018	189	195
25	Selection of Dth operator using improved accuracy function on trapezoidal Intuitionistic Fuzzy numbers	Geetha Sivaraman Vishnukumar. P Edwin Antony Raj. M	International journal of Advanced science and Technology Vol. No. 29 ISSN : 2005-4238 Year :2020	170 6	171 1
26	Ranking of Trapezoidal Intuitionistic fuzzy sets using general accuracy function and solving MCDM problem	Geetha Sivaraman Vishnukumar. P Edwin Antony Raj. M	Test Engineering and Management Vol. No. 83 ISSN : 0193-4120 Year :2020	118 42	
27	Location selection for an MNC Company's extension based on new ranking method on IVIFNs	Geetha Sivaraman Vishnukumar. P Edwin Antony Raj. M	Materials Today: Proceedings ISSN : 2214-7853 Year :2020		
28	MCDM based on new membership and non-membership accuracy functions on trapezoidal valued intuitionistic fuzzy numbers	Geetha Sivaraman Vishnukumar. P Edwin Antony Raj. M	Soft Computing Vol. No. 24 ISSN : 1432 - 7643 Year :2020	428 3	429 3
29	A novel distance measure on Interval valued Intuitionistic fuzzy numbers based on improved accuracy function	Geetha Sivaraman Vishnukumar. P Edwin Antony Raj. M	MESA Vol. No. 12 ISSN : 2041 - 3165 Year :2021	305	315

30	A Novel Kind of Arithmetic Operations on Trapezoidal Fuzzy Numbers and Its Applications to Optimize the Transportation Cost Int. J. Fuzzy Syst.	Geetha Sivaraman Vishnukumar. P Edwin Antony Raj. M	Int. J. Fuzzy Syst. Vol. No. 59 ISSN : 1562 - 2479 Year :2022		
31	A MODIFICATION FOR THE IMAGE EUCLIDEAN DISTANCE MEASURE	Geetha Sivaraman Jasmy V	Advances and Applications in Mathematical Sciences Vol. No. 21 Year :2022	334 7	335 5
32	A theoretical approach on intuitionistic fuzzy Hausdorff space	Geetha Sivaraman Jasmy .v	Proyecciones Journal of Mathematics Vol. No. 42 ISSN : 0717 – 6279 - 5409 Year :2023	319	338
33	A novel similarity measure based on new accuracy function on interval Valued intuitionistic fuzzy number and its application to multi criteria decision making problem	Geetha Sivaraman Vishnukumar. P Edwin Antony Raj. M	Neural computing and applications ISSN :s00521-023-09313-2 Year :2023	1	13

GUIDANCE:

2 Students completed Ph.D

1 Student submitted Ph.D thesis

WORKSHOPS/CONFERENCES ATTENDED:

1. AICTE/ISTE sponsored short-term training programme on **Fuzzy Logic in Engineering** during March 22 – March 26, 2004, Sir M.Visvesvaraya Institute of Technology, Bangalore.
2. AICTE/ISTE sponsored short-term training programme **Logic Programming and AI tools**, December 6 – December 11, 2004, IDD Centre, IIT, New Delhi.
3. National Conference on **The emerging trends in Pure and applied Mathematics**, Jan 27 – 29, 2005, St.Xavier’s College, Tirunelveli.
4. Two weeks **AICTE - MHRD SDP on Fuzzy Logic: Theory and Engineering Practices**, 16. 06. 2008-28. 06. 2008, Department of mathematics and Production Engineering, National Institute of Technology, Trichy-15.

5. Two days **workshop on Computational models, tools and techniques in bio-informatics**, 26.09.2008-27.09.2008, Department of mathematics and Computer Applications, National Institute of Technology, Trichy-15.
6. **Resource Person**, One day seminar on Fuzzy Decision Making, Department of Mathematics, Periyar Maniammai University, 23-04-2010
7. **Resource Person, AICTE - MHRD SDP** on Fuzzy logic and Neural Networks, Department of Mathematics and EEE, National Institute of Technology, Trichy, 21.06.2010 – 03.07.2010.
8. One Day Workshop **on Fuzzy logic and its Applications**, during March 22, 2010, Department of Computer Science and Applications, Periyar Maniammai University, Vallam, Thanjavur
9. Two Day Seminar **on Graph Theory and its Applications**, during March 26 & 27, 2010, Department of Mathematics, Periyar Maniammai University, Vallam, Thanjavur
10. One Day Seminar **on Fuzzy Decision making**, during April 23, 2010, Department of Mathematics, Periyar Maniammai University, Vallam, Thanjavur
11. Two Day workshop on **Recent Advances in Graph Theory and its Applications**, during August 28 & 29, 2010, Department of Mathematics, Periyar Maniammai University, Vallam, Thanjavur
12. UGC sponsored National Seminar on **Recent trends in the applications of Mathematical Sciences**, during January 27 & 28, 2011, Department of Mathematics, Vellalar College for Women, Erode.
13. Two Day **International Conference on Algebra and its Applications**, during December (14 & 15). 2011, Department of Mathematics, Periyar Maniammai University, Vallam, Thanjavur
14. Three days **International Conference on Information Security and Artificial Intelligence (ISAI 2011)**, during December 28 - 30, 2011, International Association of Computer Science and Information Technology (IACSIT).
15. **Resource Person**, One day seminar on Fuzzy Decision making, Department of Mathematics, Periyar Maniammai University, Vallam, Thanjavur during 23 april 2010
16. **Resource Person, AICTE - MHRD SDP** on Fuzzy logic and Neural Networks, Department of Mathematics and EEE, National Institute of Technology, Trichy, 21.06.2010 – 03.07.2010.
17. **Resource Person, UGC sponsored National Seminar Recent Trends in Fuzzy Mathematics and Its Applications**, Department of Mathematics, **Nirmala College**, Erode, 6-7, July 2011
18. **Resource Person**, Three days **National Conference on Mathematical Analysis and Applications-2011**, during November 28 - 30, 2011 **Department of Mathematics, Z.B.Patil College, Dhule.**
19. **Resource Person, One day Seminar** on Applications of Fuzzy sets, Department of Mathematics, Tiruppur Kumaran College for women, 24.02.2012.
20. **Resource Person, One day workshop** on Fuzzy Mathematics and its utilities, Department of Mathematics, **Nirmala College**, Erode, 14, August 2013
21. Resource Person, One day National seminar on Contemporary Development in applied

Mathematics, 15, September 2018

22. Resource person, one day National seminar on Applied Mathematics 28 September 2018

23. Resource person, one day National seminar on Emerging Trends In Advanced Mathematics IESTAM 12th February 2019

24. **Resource person, one day Webinar on Ordering Of Fuzzy Number And Its Application** by Narasu's Sarathy Institute Of Technology 26 June 2020

25. **Resource person, one day National Level Webinar on Studies on Fuzzy Topological Space** Organized by PG Department of Mathematics Rajapalayam Raju's College on 15th June 2020

26. Resource person, two days National Conference on Mathematical Analysis And Applications (NCMAA 2021) 23rd April 2021.

27. Resource person, one day International seminar on Recent Trends In Pure And Applied Mathematics 28 January 2022

ABROAD VISITED:

- Dubai UAE for **International Conference on Information Security and Artificial Intelligence (ISAI 2011)**, December 28 - 30, 2011, (IACSIT).
- UK for **International Conference on Knowledge Information and Management (KIM 2013)**, June 4-5, 2013.