

Ponmana Chemmal Puratchi Thalaivar MGR Government Arts and Science College,
Sirkali(Puthur)

Department of Mathematics

Name of the Faculty Member	DR. E. ELAVARASAN
Designation	GUEST LECTURER
Department	MATHEMATICS
Qualification	M.Sc., M.Ed., M.Phil., Ph.D., SET
Date of Birth	10.11.1981
Date of Appointment	25.01.2023
Subject Specialization	Topology, Real Analysis, Complex Analysis, Functional Analysis, Algebra
Area of Research	Topology and Fuzzy Topology
Research Advisor for M.Phil., /Ph.D.,	Dr. A. VADIVEL, Assistant Professor of mathematics, Annamalai University
No. of M.Phil./Ph.D., Candidates Guided/presently guiding	----
Books Published with ISBN	----
Without ISBN	----
Research Papers Published in National Journals	01 (Attached)
International Journals	32 (Attached)
Major/Minor Research Projects	----
Conference/Workshop /Training Programme Organized	----
Conference/Workshop /Training Programme Attended	C-01, W- 03
Paper presented in Conference Proceedings	02
Awards & Honours received	UGC- BSR FELLOSHIP
Extension Activities	----
Administrative Position in College	----
Membership in Academic Bodies	----
Membership in Professional Bodies	----
E-mail Address	maths.aras@gmail.com
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Any other Relevant Information	

Ph.D RESEARCH ACADEMIC DETAILS (2013-2017)

Ph.D Thesis Title:

Contributions to the Study on Generalizations of Closed Sets and Maps in Smooth Topological, Smooth Bitopological and Soft Topological Spaces.

Fellowship Award:

- ❖ I received Basic Scientific Research Fellowship awarded by University grants commission (UGC-BSR), New Delhi from 13th March 2014 to 30th Sep 2016.

LIST OF PUBLICATIONS

International journals:

1. A. Vadivel and E. Elavarasan, Applications of r-generalized regular fuzzy closed sets, Annals of Fuzzy Mathematics and Informatics, volume 12, No.5, (August 2016), 719 - 738.
2. A. Vadivel and E. Elavarasan, On rarely generalized regular fuzzy continuous functions in fuzzy topological spaces, Sahand Communications in Mathematical Analysis, 4 (1), (2016), 101-108.(**Scopus & Web of Science**)
3. A. Vadivel and E. Elavarasan, r-Fuzzy regular semiopen sets in smooth fuzzy topological spaces, Sahand Communications in Mathematical Analysis, 6(1), (2017), 1-17.(**Scopus & Web of Science**)
4. A. Vadivel and E. Elavarasan, Regular semiopen soft sets and maps in soft topological spaces, Annals of Fuzzy Mathematics and Informatics, volume 12, No. 6, (December 2016), 877-891.
5. A. Vadivel and E. Elavarasan, $r-(\tau_1, \tau_2)$ -fuzzy regular semiopen sets in smooth bitopological spaces, Annals of Fuzzy Mathematics and Informatics, volume 13, No. 2, (February 2017), 199-211.
6. A. Vadivel and E. Elavarasan, Slightly regular and somewhat slightly generalized regular double fuzzy continuous functions, The Journal of Fuzzy Mathematics, volume 25, No.2, (June 2017), 367-380.
7. A. Vadivel and E. Elavarasan, Fuzzy Irw-closed sets and maps in fuzzy ideal topological spaces, The Journal of Fuzzy Mathematics 25, No. 3, (Sep 2017), 611-626.
8. A. Vadivel and E. Elavarasan, Generalized regular fuzzy closed sets and maps in double fuzzy topological spaces, The Journal of Fuzzy Mathematics 25, No. 3, (Sep 2017), 627-644.
9. A. Vadivel and E. Elavarasan, Slightly generalized regular double fuzzy continuous functions, The Journal of Fuzzy Mathematics, vol. 25, No. 3, (Sep 2017), 645-654.

10. E. Elavarasan, Fuzzy soft regular semiopen sets and maps in fuzzy soft topological spaces, *The Journal of Fuzzy Mathematics* 26, No. 4, (2018).
11. E. Elavarasan, On rarely fuzzy regular semicontinuous functions in fuzzy topological spaces, *Scientia Magna* 13, No. 1, (2018), 80-87.
12. E. Elavarasan, On somewhat fuzzy e-continuous functions in the sence of Sostak's, *The Journal of Fuzzy Mathematics* 27, No. 1, (2019), 201-216.
13. E. Elavarasan, Generalized regular fuzzy irresolute mappings and their applications, *Sahand Communications in Mathematical Analysis* 13 No.1, (2019), 67--81. **(Web of Science & Scopus)**
14. A. Vadivel, and E. Elavarasan, Somewhat fuzzy Irw-continuous functions, *Scientia Magna* 14, No. 1, (2019), 29-43.
15. E. Elavarasan, On several types of generalized regular fuzzy continuous functions, *Scientia Magna* 14, No. 1, (2019), 66-78
16. E. Elavarasan and R. Rajamuthu, On generalized regular irresolute open and generalized regular irresolute closed mappings in topological spaces, *Journal of Xi'an University of Architecture & Technology*, Vol.no:XII, Issue no:VI, (2020), pp:575-582. **(Scopus)**
17. E. Elavarasan and R. Rajamuthu, More on contra generalized regular continuous functions in topological spaces, *Journal of Xi'an University of Architecture & Technology*, Vol.no:XII, Issue no:VI, (2020), pp:1929-1935. **(Scopus)**
18. E. Elavarasan, On rarely fuzzy e*-continuous functions in the sense of Sostak's, *Annals of Communications in Mathematics*, 3 (2), 2020, 132-138.
19. E. Elavarasan, r-Fuzzy Rs-compactness and r-fuzzy Rs-connectedness in the sense of Sostak's, *Annals of Communications in Mathematics*, Vol.3, No.4 (2020), 273-284.
20. E. Elavarasan, Soft b-locally open sets in soft bitopological spaces, *Scientia Magna*, Vol.15 No.1, (2020), 27-35.
21. A. Vadivel and E. Elavarasan, $r-(\tau_1, \tau_2)$ -Generalized regular fuzzy closed sets in smooth bitopological spaces, *Scientia Magna*, Vol.15 No.1, (2020), 51-65.
22. E. Elavarasan and A. Vadivel, Regular Semiopen Soft Sets and Their Applications, *Annals of Communications in Mathematics*, Vol.4, No.1 (2021), 45-62.
23. E. Elavarasan and A. Vadivel, On rarely fuzzy e-continuous functions in the sense of Sostak's, *TWMS J. App. and Eng. Math.* V.12, N.4, 2022, pp. 1239-1246. **(Scopus)**
24. I. Silambarasan, E. Elavarasan and R. Vijaykrishnaraj, Neutrosophic Weakly Semi Continuous Functions, *South East Asian J. of Mathematics and Mathematical Sciences*, Vol. 19, No. 3 (2023), pp. 101-114. **(Scopus)**

25. E. Elavarasan*, R. Vijayalakshmi and R. R. Praveena, On Somewhat Neutrosophic Regular Semi Continuous Functions, Annals of Communications in Mathematics, Volume 7, Number 4 (2024), 366-375.
26. R. Vijayalakshmi, R. R. Praveena and E. Elavarasan, Neutrosophic Regular Semi-Baire Spaces, Advances and Applications in Mathematical Sciences Volume 23, Issue 8, June 2024, Pages 707-719.
27. E. Elavarasan*, R. Vijayalakshmi and R. R. Praveena, Neutrosophic Weakly Regular Semi Continuous Functions, Annals of Communications in Mathematics Volume 7, Number 4 (2024), 439-450.
28. B Vijayalakshmi, T Sujitha and E Elavarasan, Neutrosophic Soft Regular Semiopen sets in Neutrosophic Soft Topological Spaces, International Journal of Multidisciplinary Research and Growth Evaluation, Volume: 05, Issue: 05, September-October 2024, Page No: 495-500.
29. B Vijayalakshmi, T Sujitha and E Elavarasan, Neutrosophic Soft Weakly Regular Semi Continuous Functions, Journal of Harbin Engineering University, Vol 47, No. 01 January 2026. **(Scopus)**
30. B Vijayalakshmi, T Sujitha and E Elavarasan, Neutrosophic Soft Regular Semi Baire Spaces, Advanced Engineering Science Journal, 58(1), (2026), 259-268. **(Scopus)**
31. B Vijayalakshmi, T Sujitha and E Elavarasan, On Somewhat Neutrosophic Soft Regular Semi Continuous Functions, Journal of Chemical Health Risk, 16(1), (2026), 2717-2734. **(Scopus)**
32. B Vijayalakshmi, T Sujitha and E Elavarasan, On Rarely Neutrosophic Soft Regular Semi Continuous Functions, AIP Conference Proceedings-Accepted. **(Scopus)**

National journals:

1. E. Elavarasan and A. Vadivel, r -fuzzy Generalized e -closed Sets and Maps in Fuzzy Topological Spaces, International Journal of Current Research and Modern Education, Special Issue, July, Page no.111-115, 2017, ISSN:2455-5428.

NATIONAL CONFERENCE / INTERNATIONAL CONFERENCE / NATIONAL LEVEL WORKSHOPS:

I have presented my paper in the following conferences:

1. National Conference on “**Emerging Trends in Mathematics**”(NCETM-2017) during 28th July 2017, organized by Department of Mathematics, A.V.V.M Sri Pushpam College (Autonomous), Poondi-613503, Thanjavur, Tamil Nadu, India.
2. One Day National Conference on “**Recent Development in Mathematics and Statistics-2020**” (NCRDMS-2020) during 6th March 2020, organized by Department of Mathematics, Shree Raghavendra Arts and Science College, Keezhamoongiladi, Chidambaram-608102, Tamil Nadu, India.

I have participated in the following conference:

1. National Conference on “**Mathematical Modelling-2014**” (NCMM-2014) during 21st,& 22nd February 2014, organized by Department of Mathematics, Annamalai University, Annamalai Nagar-608002, Tamil Nadu, India.

I have attended in the following national level workshops:

1. “**Instructional Workshop on Proof Techniques in Mathematics-2018**”, during 26th& 27th November 2018, organized by Department of Mathematics, Annamalai University, Annamalai Nagar-608002, Tamil Nadu, India.
2. National Workshop on “**Plagiarism Tools and Publication Techniques**”, during 7th February 2020, organized by PG and Research Department of Mathematics, Government Arts College, C. Mutlur, Chidambaram-608102, Tamil Nadu, India.
3. One Day National Workshop on “**Intellectual Property Rights-From Innovation to Commercialization**”, during 7th March 2020, organized by **IQAC**, Shree Raghavendra Arts and Science College, Keezhamoongiladi, Chidambaram-608102, Tamil Nadu, India.