

Name : Dr. S. P. Sathiyapriya
Designation : Assistant Professor
Department : Mathematics
Qualification : M.Sc., Ph.D., UGC-TNSET

Experience:

Teaching: 1Year Industry: Nil Research: Nil

Area of Specialization(s) : Fuzzy Mathematics,
Differential, Integral and Integro-differential Equations

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Academic Qualifications

Degree	Branch	Institution / University Name	Year of Graduation
Ph. D.	Mathematics	Bharathiar University, Coimbatore	2018
M. Sc.	Mathematics (CA)	Bharathiar University, Coimbatore	2014
B. Sc.	Mathematics (CA)	PSG College of Arts & Science, Coimbatore	2012

Additional Qualifications

Diploma / Vocational / Certification	Area of Specialization	Institution / University / Agency Name	Year
Tamil Nadu State Eligibility Test (TNSET)	Mathematical Sciences	Mother Teresa University (UGC Nodal Agency for TNSET - 2016), Tamil Nadu.	2016
NPTEL Online Course	Stress Management	IIT, Kharagpur	2018

Other Publications: International / National Journals

- 1) S. P. Sathiyapriya , S. Narayanamoorthy, **An Adaptable Technique for Solving Linear Two Dimensional Fuzzy Integral Equations**, Dynamics of Continuous, Discrete and Impulsive Systems Series B: Applications , Algorithms, Vol. 24, Issue 6, 2017, pp: 415-434, ISSN(e): 1918-2538 [SCI Search , Scopus Indexed].

- 2) S. P. Sathiyapriya , S. Narayanamoorthy, **An Appropriate Method to Handle Fuzzy Integro-Differential Equations**, International Journal of Pure and Applied Mathematics, Vol.115, Issue 3, 2017, pp: 539-548, ISSN(o): 1314-3395, [Scopus Indexed].
- 3) S. P. Sathiyapriya , S. Narayanamoorthy, **An Efficient Iterative Approach For Solving System of Fuzzy Integral Equations**, International Journal of Pure and Applied Mathematics, Vol.113, Issue 12, 2017, pp: 123-132, ISSN(o): 1314-3395 [Scopus Indexed].
- 4) S. Narayanamoorthy, S. P. Sathiyapriya, **Homotopy Perturbation Method: A Versatile Tool to Evaluate Linear and Nonlinear Fuzzy Volterra Integral Equations of the Second Kind**, Springer Plus, Vol.5, Article No.387, 2016, pp: 1-16, ISSN: 2193-1801 [SCIE Indexed].
- 5) S. Narayanamoorthy, S. P. Sathiyapriya, **A Pertinent Approach to Solve Nonlinear Fuzzy Integro-Differential Equations**, Springer Plus, Vol.5, Article No. 449, 2016, pp: 1-17, ISSN: 2193-1801 [SCIE Indexed].
- 6) S. Narayanamoorthy , S. P. Sathiyapriya, **Application of a New Enhanced Homotopy Perturbation Method to Nonlinear Fuzzy Integral Equations**, International Journal of Applied Engineering Research, Vol.11, Issue 1, 2016, pp:1-11, ISSN: ISSN 0973-4562 [Scopus Indexed].

Presentations in Conference

- 1) **A Versatile Technique for Handling Linear Fuzzy Integro-Differential Equations of a Special Type**, UGC sponsored one day International Seminar on Algebra , Applied Mathematics (ISOAAM 2018), Hajee Karutha Rowther Howdia College, Theni, 11-Jan-18.
- 2) **A Handy Tool for Solving Linear Fredholm Fuzzy Integro-Differential Equations**, International Conference on Computing Sciences (ICCS 2018), Loyola College, Chennai, 8 & 9-Jan-18.
- 3) **Existence, Uniqueness And Convergence of Solutions of Fuzzy Integral Equations by Using a Recursive Scheme Based on Hpm**, International Conference on Advances in Applicable Mathematics (ICAAM 2017), Bharathiar University, Coimbatore, 7 & 8-Dec-17.
- 4) **Stability Analysis of Solution of Fuzzy Integral Equations using Homotopy Perturbation Method**, UGC Sponsored National Seminar on Recent Developments in Fuzzy Set Theory , Christ College, Irinjalakuda, Kerala, February 16 & 17-Feb-17.

- 5) **An Efficient Iterative Approach for Solving System of Fuzzy Integral Equations**, 9th National Conference on Mathematical Techniques and their Applications (NCMTA 2017), SRM University, Chennai, 27 & 28-Jan-17.
- 6) **Reliable Algorithm to Solve Fuzzy Integral and Fuzzy Integro-Differential Equations**, 104th Indian Science Congress (ISC-104)", Sri Venkateswara University, Tirupati, 3 to 7-Jan-17.
- 7) **An Appropriate Method to Handle Fuzzy Integro-Differential Equations**, National Conference on Emerging Trends in Mathematical Sciences: NCETMS-2016, S.A.Engineering College, Chennai, 22-Dec-16.
- 8) **A Computational Approach to Solve Fuzzy Volterra-Fredholm Integral Equations**, Two day International Conference on Mathematical Computer Engineering: ICMCE-2016, VIT University, Chennai, 16 & 17-Dec-16.
- 9) **An Efficient Computational Approach for Solving Nonlinear Fuzzy Fredholm Integral Equations**, National Conference on New Frontiers in Mathematics and its Applications – NFMA'16, PSG College of Arts & Science, Coimbatore, 11-Mar-16.
- 10) **An Improved Homotopy Perturbation Technique to Solve Linear Fuzzy Fredholm Integral Equations of the First and the Second Kind**, UGC Sponsored National Conference on Graph Theory, Fuzzy Graph Theory and their Applications, Jamal Mohamed College, Tiruchirappalli, February 10 & 11-Feb-16.
- 11) **A Handy Approximate Solution of One Dimensional Linear Fuzzy Integral Equations by Enhanced Homotopy Perturbation Method**, APAS First Andhra Pradesh Science Congress, Sri Venkateswara University, Tirupati, 27 to 29-Jan-16.
- 12) **Application of a New Enhanced Homotopy Perturbation Method to Nonlinear Fuzzy Integral Equations**, Second International Conference on Applied Mathematical Models (ICAMM 2016), PSG College of Technology, Coimbatore, 5 to 7-Jan-16.

Participation in Conference

National

- 1) **Stochastic Differential Equations and Its Applications**, Dr. N.G.P. Arts and Science College, Coimbatore, 27-Dec-17.

Participation in Faculty Development Programme

- 1) **Quality Initiatives in Higher Education**, Dr. N.G.P. Arts and Science College, Coimbatore, 3-Dec-18 to 9-Dec-18.

Member in BoS

- 1) Board of Mathematics (CA), PSG College of Arts and Science, Coimbatore, 2017 - 2019.

Membership in Professional Bodies

Name of the Professional Body	Nature of membership	Duration
Indian Science Congress Association (ISCA), Kolkata	Life-time	-