PERSONAL PROFORMA



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I look forward towards a vision-based biosphere where education plays a pivotal role. Thus, through dedication and hard work I would like to contribute my efforts with alacrity and zeal to the realization of this vision. Herewith my educational qualifications and achievements are enclosed.

Course	Institution	University/ Board	Year of completion	Percentage (In %)
Ph. D.	Sri Ramakrishna Mission Vidyalaya college of arts and science, Coimbatore	Bharathiar University	2020	Highly commended
M. Phil.	Sri Ramakrishna Mission Vidyalaya college of arts and science, Coimbatore	Bharathiar University	2017	Highly commended
M. Sc.	Kongunadu Arts and Science college, Coimbatore	Bharathiar University	2015	72
PGDCA	Kongunadu Arts and Science college, Coimbatore	Bharathiar University	2014	70
B. Sc.	Sri Ramakrishna Mission Vidyalaya college of arts and science, Coimbatore	Bharathiar University	2013	70
H. S. C.	Govt. Hr. Sec.School, Manjoor	TN State Board	2010	75
S. S. L. C.	Govt. Hr. Sec. School, Manjoor	TN State Board	2008	73

COMPUTER SKILLS

- Computer Basics, Latex, Mathematica.

PAPER PRESENTATIONS & PARTICIPATION:

- Participated in **"International Conference of Indian Society of Industrial and Applied Mathematics",** at Bharathiar University, Coimbatore.
- Participated in Second National Level Conference on **"Control and Inverse Problems",** at Central University of Tamilnadu, Thiruvarur.
- Participated in **"International Conference on Application of Mathematics in Engineering, Science and Technology",** at PSGR Krishnammal College for women, Coimbatore.
- Participated in **"National Conference on Computational Topology and Differential Equations",** Anna university regional campus & DRDO-BU CLS, Bharathiar University, Coimbatore.
- Participated in short term course on **"Nonlinear Dynamical System: Concepts and Applications",** at Coimbatore institute of technology, Coimbatore.

ARTICLES PUBLISHED:

1. S. Harikrishnan, D. Vivek, E. M. Elsayed, Existence and Stability of Integro Differential Equation with Generalized Proportional Fractional Derivative, Journal of Contemporary Mathematical Analysis (Armenian Academy of Sciences), 58(4) 253–263 (2023).
2. S. Harikrishnan, E. M. Elsayed, K. Kanagarajan, Some existence and stability results for integro-differential equations by psi Hilfer fractional derivative, *international journal of mathematics, statistics and operational research,* 3(1) (2023).
3. E. M. Elsayed, S. Harikrishnan, D. Vivek, K. Kanagarajan, Qualitative study on Hilfer-Katugampola fractional implicit differential equations, *Open journal of mathematical sciences*, 6(1) (2022).
4. S. Harikrishnan, E. M. Elsayed, K. Kanagarajan, Study on random langevin differential equations with fractional derivative with respect to another function, *nonlinear studies* (Accepted Paper) (2022).
5. S. Harikrishnan, K. Shah, K. Kanagarajan, Qualitative analysis of fractional random implicit differential equations via ψ-Hilfer fractional derivative, (Accepted paper).
6. S Harikrishnan, EM Elsayed, K Kanagarajan, D Vivek, A study of Hilfer-Katugampola type pantograph equations with complex order, *Examples and Counterexamples*, 2022.
7. S. Harikrishnan, K. Kanagarajan, O. Baghani, Qualitative analysis of fractional differential equations with psi-Hilfer fractional derivative, *Computational Methods of Differential Equations,* 10 (1), 1-11(2022).
8. S. Harikrishnan, K. Kanagarajan, E. M. Elsayed, Study on fractional random differential equations with not instantaneous impulses, *Tbilisi Mathematical Journal* 14(2) (2021), 117–126.
9. S. Harikrishnan, K. Kanagarajan, E. M. Elsayed, Existence results for hybrid differential equation with generalized fractional derivative, *Maltepe Journal of Mathematics*, 2(2) (2020), 55-60.
10. S. Harikrishnan, K. Kanagarajan, E. M. Elsayed, A general study on random integro-differential equations of arbitrary order, *Annals of Mathematical Science and Application,* 5(2) (2020), 141-169. (**ESCI**)
11. S. Harikrishnan, K. Kanagarajan, D. Vivek, Some existence and stability results for integro differential equation by Hilfer-Katugampola frctional derivative, *Palestine journal of Mathematics*, 9(1) (2020), 254–262. (**SCOPUS**)

12. S. Harikrishnan, K. Kanagarajan, E. M. Elsayed, On the existence and stability of boundary value problem for differential equation with Hilfer-Katugampola fractional derivative, *Acta Mathematica Scientia*,39(2019), 1568–1578. (**SCI**)
13. S. Harikrishnan, K. Kanagarajan, E. M. Elsayed, A general study on random integro-differential equations of arbitrary order, *Journal of Applied Analysis and Computation*, 9(4) (2019), 1407-1424. (**SCIE**)
14. S. Harikrishnan, K. Shah, K. Kanagarajan, Study of a boundary value problem for fractional order psi-Hilfer fractional differential equations, *Arabian journal of mathematics*, (2019). (**SCOPUS**)
15. S. Harikrishnan, K. Shah, K. Kanagarajan, Existence theory of fractional coupled differential equations via psi-Hilfer fractional derivative, *Random operators and stochastic equations*, (2019). (**SCOPUS**)
16. F. Jarad, S. Harikrishnan, K. Shah, K. Kanagarajan, Existence and stability results to a class of fractional random implicit differential equations involving a generalized hilfer fractional derivative, *Discrete and Continuous Dynamical Systems Series S*, doi:10.3934/dcdss.2020040. (**SCIE**)
17. S. Harikrishnan, Rabha W. Ibrahim, K. Kanagarajan, Multi-order fractional operator in a time-differential formal with balance function, *Korean Journal of Mathematics*. 27 (2019), 1, 119-129. (**ESCI**)
18. S. Harikrishnan, K. Kanagarajan, E. M. Elsayed, Existence and stability results for differential equations with complex order involving Hilfer fractional derivative, *TWMS Journal of Pure and Applied Mathematics*, (2019). (**SCIE**)
19. S. Harikrishnan, K. Kanagarajan, S. Sivasundaram, On the study of dynamics analysis of thermistor problem involving psi-Hilfer fractional derivative, *Mathematics in Engineering, Science and Aerospace*, 10(1) (2019). (**SCOPUS**)
20. S. Harikrishnan, K. Kanagarajan, D. Vivek, Existence and Stability Results for Boundary Value Problem for Differential Equation with ψ -Hilfer Fractional Derivative, *Journal of Applied Nonlinear Dynamics*, 8(2) (2019) 251-259. **(SCOPUS).**
21. S. Harikrishnan, Rabha W. Ibrahim, K. Kanagarajan, A new study of a class of multi-fractional differential equations, *Journal of fractional calculus and application*, (2019). (Accepted Paper) **(Refereed Journal)**
22. S. Harikrishnan, K. Kanagarajan, S. Sivasundaram, Stability analysis and dynamics of impulsive differential equations under Hilfer fractional derivative, *Nonlinear Studies*, 25(2) (2018), 403-415. **(SCOPUS)**
23. S. Harikrishnan, Rabha W. Ibrahim, K. Kanagarajan, On ψ-Hilfer fractional differential equation with complex order, *Universal Journal of Mathematics and Applications*, 1(1) (2018), 33-38. **(Refereed Journal)**
24. S. Harikrishnan, Kamal Shah, Dumitru Baleanu, K. Kanagarajan, Note on the solution of random differential equations via ψ-Hilfer fractional derivative, *Advances in Difference Equations*, (2018) 2018 224. (**SCIE**)
25. S. Harikrishnan, E. M. Elsayed, K. Kanagarajan, Existence and uniqueness results for fractional pantograph equations involving ψ-hilfer fractional derivative, *Dynamics of Continuous, Discrete and Impulsive Systems Series A: Mathematical Analysis*, 25 (2018), 319-328. (**SCIE**)
26. Rabha W. Ibrahim, S. Harikrishnan, K. Kanagarajan, Existence and stability of Langevin equations with two Hilfer-Katugampola fractional derivatives, *Stud. Univ. Babe¸s-Bolyai Math.* 63(3) (2018), 291–302. **(SCOPUS)**
27. S. Harikrishnan, K. Kanagarajan, E. M. Elsayed, Existence and stability results for Langevin equations with Hilfer fractional derivative, *Results in Fixed Point Theory and Applications*, (2018) 10 pages. (**Refereed Journal**)

28. S. Harikrishnan, Rabha W. Ibrahim, K. Kanagarajan, Establishing the existence of Hilfer fractional pantograph equations with impulses, *Fundamental Journal of Mathematics and Applications*, 1 (1) (2018), 36-42. (**Refereed Journal**)
29. S. Harikrishnan, K. Kanagarajan, D. Vivek, Analysis of nonlinear neutral pantograph differential equations with ψ–fractional derivative, *Journal of Vibration Testing and System Dynamics*, 2(1) (2018), 33-41. (**Refereed Journal**)
30. S. Harikrishnan, E. M. Elsayed, K. Kanagarajan, Analysis of nonlinear neutral pantograph differential equations with ψ-Hilfer fractional derivative, *MathLAB Journal*, 1(2) (2018), 1-10. (**Refereed Journal**)
31. S. Harikrishnan, E. M. Elsayed, K. Kanagarajan, A general study on Langevin equations of arbitrary order, *Computer Reviews Journal*, 2 (2018). (**Refereed Journal**)
32. S. Harikrishnan, K. Kanagarajan, D. Vivek, Stability of fractional differential equations without singular kernel, *Discontinuity, Nonlinearity, and Complexity*, 7(3) (2018) 253-257. **(SCOPUS)**
33. S. Harikrishnan, K. Kanagarajan, D. Vivek, Solutions of nonlocal initial value problems for fractional pantograph equation, *Journal Nonlinear Analysis and Application*, 2 (2018) 136-144. **(Refereed Journal)**
34. S. Harikrishnan, K. Kanagarajan, E. M. Elsayed, Analytic study on Hilfer fractional langevin equations with impulses, *Open J. Math. Anal.*, 2(2) (2018), 129 – 141.
35. S. Harikrishnan, K. Kanagarajan, D. Vivek, Study on fractional differential equations via Atangana-Baleanu fractional derivative, *Journal of Vibration Testing and System Dynamics*, **(Accepted Paper).**
36. D. Vivek, K. Kanagarajan, S. Harikrishnan, Dynamics and Stability Results for Nonlinear Neutral Pantograph Equations via Hilfer-Hadamard Fractional Derivative, *Discontinuity, Nonlinearity, and Complexity*, 8(1) (2019) 37-48. **(SCOPUS)**
37. D. Vivek, K. Kanagarajan, S. Harikrishnan, Dynamics and stability of Hilfer-Hadamard type fractional pantograph equations with boundary conditions, *Journal Nonlinear Analysis and Application*, 1 (2018) 1-13. **(Refereed Journal)**
38. D. Vivek, K. Kanagarajan, S. Harikrishnan, Existence and uniqueness results for nonlinear neutral pantograph equations with generalized fractional derivative, *Journal Nonlinear Analysis and Application*, 2 (2018) 151-157. **(Refereed Journal)**
39. D. Vivek, K. Kanagarajan, S. Harikrishnan, Theory and Analysis of Impulsive Type Pantograph Equations with Katugampola Fractional Derivative, *Journal of Vibration Testing and System Dynamics* 2(1) (2018) 9-20. (**Refereed Journal)**
40. D. Vivek, K. Kanagarajan, S. Harikrishnan, Existence and uniqueness results for implicit differential equations with generalized fractional derivative, *Journal Nonlinear Analysis and Application*, 1 (2018) 27-33. **(Refereed Journal)**
41. D. Vivek, K. Kanagarajan, S. Harikrishnan, Dynamics and stability of Hilfer-Hadamard type fractional differential equations with boundary conditions, *Journal Nonlinear Analysis and Application*, 1 (2018) 14-26. **(Refereed Journal)**
42. D. Vivek, K. Kanagarajan, S. Harikrishnan, Dynamics and Stability Results of Fractional Pantograph Equations with Complex Order, *Journal of Applied Nonlinear Dynamics*, 7(2) (2018) 179-187. **(SCOPUS)**
43. D. Vivek, K. Kanagarajan, S. Harikrishnan, Dynamics and stability results of fractional integro-differential equations with complex order, *Discontinuity, Nonlinearity, and Complexity*, 7(2) (2018) 119-127. **(SCOPUS)**
44. D. Vivek, K. Kanagarajan, S. Harikrishnan, Existence of Solutions for Impulsive Fractional q-difference Equations with Nonlocal Condition, *Journal of Applied Nonlinear Dynamics* 6(4) (2017) 479–486. **(SCOPUS)**

45. D. Vivek, K. Kanagarajan, S. Harikrishnan, Existence and uniqueness results for pantograph equations with generalized fractional derivative, *Journal Nonlinear Analysis and Application* 2 (2017) 105-112. **(Refereed Journal)**
46. D. Vivek, K. Kanagarajan, S. Harikrishnan, Numerical solution of first-order fully fuzzy differential equations by Runge-Kutta Fehlberg method under strongly generalized H-differentiability, *Journal of Soft Computing and Applications* 2017 (1) (2017) 1-23. **(Refereed Journal)**
47. D. Vivek, K. Kanagarajan, S. Harikrishnan, An Improved Predictor-Corrector Method for Delay Differential Equations of Fractional Order, *International Journal of Mathematics Trends and Technology*, 30(1) (2016) 1-5. **(Refereed Journal)**
48. D. Vivek, K. Kanagarajan, S. Harikrishnan, Numerical Investigations on Hybrid Fuzzy Fractional Differential Equations by Improved Fractional Euler Method, *Journal of Fuzzy Set Valued Analysis* 2016 (3) (2016) 234-247. **(Refereed Journal)**
49. D. Vivek, K. Kanagarajan, S. Harikrishnan, A study on numerical solution to hybrid fuzzy fractional differential equations by predictor-corrector method, *Journal of Fuzzy Set Valued Analysis*, 2016(3) (2016) 303-316. **(Refereed Journal)**
50. D. Vivek, K. Kanagarajan, S. Harikrishnan, Numerical solution of fractional-order logistic equations by fractional Euler's method, *International Journal for Research in Applied Science & Engineering Technology*, 4(III) (2016) 775-780. **(Refereed Journal)**
51. D. Vivek, K. Kanagarajan, S. Harikrishnan, Runge-Kutta Nystrom method for solving first-order fully fuzzy differential equations under strongly generalized H-differentiability, *Journal Nonlinear Analysis and Application*, (2018). (**Accepted Paper**)
52. D. Vivek, K. Kanagarajan, S. Harikrishnan, Theory of ψ-fractional functional differential equations, *Journal Nonlinear Analysis and Application*, (2018). (**Accepted Paper**).

RESEARCH:

1. A project on the topic **"The differential transformation method for solving delay differential equation of fractional order"** was done as a research work in M.Sc.

2. A thesis on the topic **"Existence Results for Delay Differential Equations and Delay Integro-Differential Equations with Hilfer Fractional Derivative"** was done as a research work in M.Phil.

3. A thesis entitled **"Qualitative Analysis of Different Types of Random Differential Equations with psi-Hilfer Fractional Derivative"** was undertaken as a research work in Ph.D.

WORK EXPERIENCE

SI. No	Name of the Institution Worked	Duration		Subjects Handled
		From	To	
1.	Sri Ramakrishna Mission Vidyalaya CAS, Coimbatore	June, 2018	May, 2019	Linear Algebra,
2.	PPG College of Arts and Science	Dec, 2020	July, 2021	Numerical Methods, Operational Research
3.	TIPS Global Institution	July, 2021	Aug, 2022	Numerical Methods, Operational Research, Statistics,
4.	The Camford International School	Jan, 2023	-	Grade-9, 10, 11(CBSE)

RESEARCH SUPERVISOR FOR M.Phil. & Ph.D.:

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