PROFILE OF DR. P. MUTHUKUMAR



1. Name & Designation : **Dr. P. MUTHUKUMAR,**
   Professor of Mathematics
2. Centre / Department / School : Department of Mathematics
   School of Sciences, The Gandhigram Rural Institute (DTBU), Gandhigram – 624302, Dindigul (District), Tamil Nadu, INDIA.
3. Qualification : M.Sc., B.Ed., M.Phil., Ph.D.
4. Experience (in years) : Teaching: 18 years
   Research: 16 years
5. Area of Specialization : 1) Applied Mathematics
   2) Nonlinear Dynamics & SDEs
   3) Stability and Control Theory
6. Mobile Number : +91 98657 68642
7. E-Mail IDs : p.muthukumar@ruraluniv.ac.in ; pmuthukumargri@gmail.com
8. Orcid ID : https://orcid.org/0000-0003-1396-9948
9. Google Scholar ID : https://scholar.google.com.sg/citations?user=wDUdVoAAAAAJ
10. IRINS Link for detailed profile: https://vidwan.inflibnet.ac.in/profile/107266
11. Web Page: **https://sites.google.com/site/pmuthukumargri/**
12. Research Guidance :

Degree	Awarded		Guiding
	Total	For the period 2022-2026	
Ph.D.	12	4	04

13. **Publications**

S.No.	Category	Total	For the period 2022-2026
1.	No. of SCOPUS Indexed research articles	108	39
2.	Books published	2	00
3.	No. of chapters in Edited Volume / Proceedings	27	08

Select Publications (2022-2026)

S.No.	Title of the Article	Name of the Journal	I/N	ISBN/ ISSN	Vol.	Pg.	Month and Year
1.	A Stackelberg Game for Mean-Field Backward Stochastic System Under Partial Information	Dynamic Games and Applications	I	2153-0793	Vol. 16	pp. 126–156	March 2026
2.	A Novel Sampled-Data Control for Reachable Set Estimation of	IEEE Transactions on SMC: Systems	I	2168-2232	Vol. 55,	pp. 380 - 389	January 2025

	Nonlinear Multiagent Systems				No.1		
3.	Memory sampled-data control design for attitude stabilization of uncertain spacecraft with randomly missing measurements	Advances in Space Research	I	0273-1177	74(3)	1276-1287	August 2024
4.	Trajectory controllability of Hilfer fractional neutral stochastic differential equation with deviated argument and mixed fractional Brownian motion	Optimization	I	0233-1934	72(11)	2865-2891	October 2023
5.	Practical consensus for heterogeneous multi-agent systems with gain fluctuations via resilient sampled-data control	European Journal of Control	I	0947-3580	71	100803	May 2023
6.	Reachable Set Estimation for T–S Fuzzy Markov Jump Systems With Time-Varying Delays via Membership Function Dependent Performance	IEEE Transactions on Fuzzy Systems	I	1063-6706	30	4980-4990	November 2022
7.	Mean-square Exponential Stability of Impulsive Conformable Fractional Stochastic Differential System with Application on Epidemic Model	Chaos, Solitons & Fractals	I	1873-2887	160	112070	July 2022

14. **Sponsored Projects:**

Major Projects handled so far		Major Projects handled during 2022-2026	
Nos.	**Financial Outlay (Rs.in lakhs)**	**Nos.**	**Financial Outlay (Rs.in lakhs)**
5	₹58.23	-	-

15. No. of Seminars / Conferences / Workshops organized (2022-2026): **1**
16. No. of presentations in Seminars / Conferences (2022-2026): -
17. No. of Patents :-
18. Details of Awards and Honours (from recognized Govt. agencies) (2022-2026): **5**
19. No. of Invited Talks in National / International Conferences (2022-2026): **7**
20. Visits Abroad (2022-2026): *(List of countries visited for academic purposes)*
    - Visiting Academic by **Deakin University, Geelong Waurn Ponds Campus, VIC 3220 Australia** in the School of Engineering to do research collaboration with Dr. Van Thanh Huynh during 19th June 2026 - 10th July 2026.
    - Honorary Visiting Researcher with Prof. Rifki Sadikin at the **Research Center for Computing at BRIN (National Research and Innovation Agency) Cibinong, West Java, Indonesia** during September 29, 2025 to October 10, 2025.

- Visiting Academic by **Deakin University, Geelong Waurn Ponds Campus, VIC 3220 Australia** in the School of Engineering, Faculty of Science, Engineering and Built Environment to do research collaboration with Dr. K. Subramanian, Alfred Deakin Post-Doc Research Fellow(ADPRF), Prof. Hieu Trinh and Prof. Samson Yu during 06th May 2024 - 07th June 2024.
- Visiting Academic by **Deakin University, Geelong Waurn Ponds Campus, VIC 3220 Australia** in the School of Engineering, Faculty of Science, Engineering and Built Environment to do research collaboration with Prof. Hieu Trinh and Prof. Samson Yu during 14th August 2022 - 29th September 2022.

21. Additional responsibilities (2022-2026):
    - Officer on Special Duty (Publications)
    - Student Welfare Coordinator in Department Level
    - Public Information Officer
    - Nodal Officer CUET
    - IQAC Working Member
    - Member NAD & NMEICT