

**Dr. P. BALASUBRAMANIAM**

1. Designation : Senior Professor
2. Centre / Department / School : Mathematics
3. Qualification : M.Sc., M.Phil., Ph.D., M.C.A., D.Sc.,
4. Experience (in years) : Teaching: 32 years  
Research: 36 years
5. Area of Specialization : 1) Neural Networks and Image Processing  
2) Quantum Computation and Algorithms  
3) Fractional Differential Equations
6. Mobile Number : +91 9488212371
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8. Orcid ID : <https://orcid.org/0000-0001-9673-5949>
9. Google Scholar ID : <https://shorturl.at/Kbr5P>
10. IRINS Link for detailed profile : <https://ruraluniv.irins.org/profile/60529>



11. **Research Guidance :**

| Degree | Awarded |                          | Guiding |
|--------|---------|--------------------------|---------|
|        | Total   | For the period 2019-2024 |         |
| Ph.D.  | 37      | 8                        | 6       |

12. **Publications**

| S.No. | Category                                       | Total | For the period 2019-2024 |
|-------|--|-------|--------------------------|
| 1.    | No. of UGC CARE Listed Publications            | 289   | 69                       |
| 2.    | Books Published                                | 1     | 1                        |
| 3.    | No. of Chapters in Edited Volume / Proceedings | 7     | 2                        |

**Select Publications (2019-2024)**

| S. No. | Title of the Article  | Name of the Journal   | I/ N | ISBN/ ISSN | Vol. | Pg.       | Month and Year |
|--------|---|---|------|------------|------|-----------|----------------|
| 1.     | Fuzzy-driven image enhancement via ABR-fractal-fractional differentiation   | Information Sciences  | I    | 1872-6291  | 675  | 1-20      | Jul. 2024      |
| 2.     | Stabilization Analysis for Nonlinear Interconnected System with Memory based Coupled Sampled Data Control via Quantum-Inspired Genetic Algorithm                                  | Information Sciences  | I    | 1872-6291  | 676  | 1-14      | Jun. 2024      |
| 3.     | Designing asynchronous resilient sampled data controller for nonlinear Markov jump systems via hidden Markov model and quantum genetic algorithm                                  | Journal of the Franklin Institute                           | I    | 1879-2693  | 361  | 1-12      | May 2024       |
| 4.     | An Exponential Stabilization Analysis for Switched Interval Type-2 Fuzzy Sampled-Data Control Systems   | IEEE Transactions on Fuzzy Systems                          | I    | 1941-0034  | 31   | 3652-3663 | Apr. 2023      |
| 5.     | Stability Analysis of Neutral Fractional Stochastic Differential Equations Driven by Mixed Brownian Motion and Subfractional Brownian Motion With Applications in the I-Cub Robot | IEEE Transactions on Systems, Man, and Cybernetics: Systems | I    | 2168-2232  | 53   | 3377-3388 | Dec. 2022      |

13. **Sponsored Projects:**

| Major Projects handled so far |                                | Major Projects handled during 2019-2024 |                                |
|-------------------------------|--------------------------------|---|--------------------------------|
| Nos.                          | Financial Outlay (Rs.in lakhs) | Nos.                                    | Financial Outlay (Rs.in lakhs) |
| 13                            | 596.94                         | 3                                       | 37.11                          |

14. No. of Seminars/Conferences/Workshops Organized (2019-2024) :7
15. No. of Presentations in Seminars/Conferences (2019-2024) : 3
16. No. of Patents :1
17. No. of Invited Talks in National / International Conferences (2019-2024) :27
18. Visits Abroad (2019-2024):
- Worked as a Visiting Professor in the Institute of Computer Science and Digital Innovation (ICS DI), UCSI University, Kuala Lumpur, Malaysia
  - Worked as a Visiting Professor in the Institute of Mathematical Sciences, Faculty of Science, University of Malaya, Malaysia
19. **Additional Responsibilities (2019-2024):**
- Director, International Programme, GRI
20. **Awards / Honours / Recognitions / Achievements: (2019-2024):**
- Received Tamil Nadu Senior Scientist Award (TSSA-2018) for Senior Scientist in Mathematical Sciences from Department of Higher Education, Tamil Nadu. (2020)
  - Fellow of The Academy of Sciences, The Academy of Sciences, Chennai. (2020)
  - Copyrights :3
  - 'Listed Top 2% Scientists of the world by Elsevier BV, Stanford University for the years 2020, 2022, 2023& 2024.
  - External Assessor in University of Malaya, Malaysia.
  - External expert in University of Colombo, Sri Lanka and Deakin University, Australia.