Name : Dr. L. Susana Ramya

Designation: Assistant Professor

Department: Mathematics

Qualification: M.Sc., M.Phil., Ph.D.

Experience: Teaching: 5.10 Years Research: 6 Years

Area of Specialization(s) : Control Theory

Email (Official ID) : susanaramya@drngpasc.ac.in



Academic Qualifications

Degree	Branch	Institution / University Name	Year of Graduation
Ph.D.	Mathematics	Anna University Regional Campus, Coimbatore.	2020
M.Phil.	Mathematics	Tamilnadu open University, Chennai.	2008
M.Sc.,	Mathematics	Bishop Heber College, Trichy.	2000
B.Sc.,	Mathematics	Holy Cross College, Trichy.	1998

Additional Qualifications

Diploma / Vocational / Certification	Area of Specialization	Institution / University / Agency Name	Year
		Nil	

Grants Received

Event Title	Agency	Amount	Date
	NIL		

Projects

Completed

Project Title	Agency	Amount	Duration
Adaptive Reliable mechanism of	DST	7,25,000	2017 - 2020

bioeconomic system		
oroccomonne system		

On-going

Project Title	Agency	Amount	Duration
	NIL		

Research Guidance

Programme	No. of Scholars	
Trogramme	Completed	Pursuing
NIL	-	-

Research Publications (Indexed)

International

- **1. L. Susana Ramya** and A. Leelamani, "Resilient fuzzy control design of singular stochastic biological economic fishery model", IET Control Theory & Applications, vol.5, pages 1–16 (2021). [Impact Factor: 3.343]
- **2. L. Susana Ramya**, R. Sakthivel, Y. Ren, Y. Lim and A. Leelamani, "Consensus of uncertain multi-agent systems with input delay and disturbances", Cognitive Neurodynamics, vol.13, pages 367–377(2019). [Impact Factor: 3.021]
- **3. L. Susana Ramya**, R. Sakthivel, A. Leelamani, P. Dhanalakshmi and N. Sakthivel," Output tracking control of switched nonlinear systems with multiple time-varying delays", International Journal of Systems Science, vol.49, pages 2373-2384 (2018). [Impact Factor: 5.20]
- **4. L. Susana Ramya**, R. Sakthivel, C.K. Ahn, and Y.Ren, "Reliable resilient finite-time control for stabilization of hyperchaotic fractional-order systems" IEEE Transactions on Circuits and Systems II: Express Briefs, vol.66, pages 1537 1541 (2018). [Impact Factor: 3.25]
- **5. L. Susana Ramya**, "Reliable passive controller design for a class of fuzzy time-delay systems against nonlinear actuator faults", American International Journal of Research in Science, Technology, Engineering & Mathematics, ISSN (Print): 2328-3491. (2018) [Impact Factor 5.01]

- **6.** R. Sakthivel, **L. Susana Ramya,** Y. K. Ma, M. Malik and A.Leelamani, "Stabilization of uncertain switched discrete-time systems against actuator faults and input saturation", Nonlinear Analysis: Hybrid Systems, vol.35, pages 271–280(2020). [Impact Factor: 4.010]
- **7.** S. Kanakalakshmi, **L. Susana Ramya** and A. Leelamani, "Reliable non-fragile consensus of nonlinear fractional-order multi-agent systems with switching topology", SSRG International Journal of Mathematics Trends and Technology, ISSN-2231-5373. (2019)[Impact Factor: 0.12]
- 8. R. Sakthivel, **L. Susana Ramya** and P.Selvaraj, "Observer-based state tracking control of uncertain stochastic systems via repetitive controller", International Journal of Systems Science, vol.48, pages 2272–2281(2017). [Impact Factor: 5.20]
- **9.** R. Sakthivel, **L. Susana Ramya**, B. Kaviarasan, S. Santra and A.Leelamani "Robust Reliable L2 L∞ Control for Continuous-Time Systems with Nonlinear Actuator Failures", Complexity, vol.21, pages 309-319 (2016). [Impact Factor: 1.738]
- **10.**S. Kanakalakshmi, R. Sakthivel, **L. Susana Ramya**, A. Parivallal and A. Leelamani, "Disturbance estimator based dynamic compensator design for fractional order fuzzy control systems", **Iranian Journal of Fuzzy Systems**, vol., pages (2021). [Impact Factor: 2.276]
- **11.**V.Tharanidharan, R.Sakthivel, Y.K. Ma, **L. Susana Ramya**, and S. M. Anthoni, "Finite-time decentralized non-fragile dissipative control for large-scale systems against actuator saturation", ISA Transactions, vol.91, pages 90-98 (2019). [Impact Factor 4.343]

Consultancy

Nature of Consultancy	Client	Amount	Completion Status
Webpage Design	Agro Pvt. Ltd.,	Rs. 25,000	Completed/Ongoing
	Coimbatore		

Presentations in Conference

Presented a paper titled "Reliable mechanism for singular fuzzy bio-economic systems" in International Conference on Mathematical Modelling and Scientific Computing held at Gandhigram Rural Institute (Deemed to be University), Dindigul on 19-21 February 2020.

- 2. Presented a paper titled "Adaptive reliable control for stochastic systems" in International Conference in Conjunction with 15th Biennial Conference of **ISIAM** held at Bharathiar University, Coimbatore on 5 -7 December 2019.
- Presented a paper titled "Reliable control of wheeled mobile robot trailer affected by time delay and disturbances" in 5th IEEE ICONSTEM 2019 international conference held at Jeppiaar Engineering College, Chennai on 14 -15 March 2019.
- Presented a paper titled "Reliable non-fragile consensus of nonlinear fractionalorder multi-agent systems with switching topology" in **International conference on future technologies in engineering, science and humanities** held at Sri Guru Institute of Technology, Coimbatore on 22 February 2019.
- 5. Presented a paper titled "Reliable passive controller design for a class of fuzzy timedelay systems against nonlinear actuator faults" in the **2nd** International conference on current scenario in pure and applied mathematics held at Kongunadu Arts and Science College, Coimbatore on 3 January 2019.
- 6. Presented a paper titled "Extended passivity sampled data control for T-S fuzzy systems with nonlinear actuator failures" in the **4th National Conference on advances in differential equations and applications** held at Periyar University, Salem on 23-24 March 2017.
- Presented a paper titled "Robust reliable dissipative control for continuous-time systems with mixed actuator failures" in the International Conference on Differential Equations and Applications held at Bharathiar University, Coimbatore on 15-16 March 2017.
 Presented a paper titled "Passivity Analysis of T-S fuzzy systems with time varying delay against nonlinear actuators" in the International Conference on Nonlinear Dynamical Systems held at Bharathiar University, Coimbatore on 24-26 March 2016
- 2016.
- Presented a paper titled "Passivity based T-S fuzzy systems nonlinear actuator failures" in the **National Conference on Recent developments in Differential Equations and their Applications** held at PSGR Krishnammal College for women, Coimbatore on 4-5 March 2016.

Participation in Conference

International

Participated in a "Online training/webinar" organized by IEEE Explore, Dr. NGP Institute of Technology, Coimbatore held on 12 October 2021.

- ^{2.} Participated in a "Webinar" organized by The Department of Mathematics, Hindusthan College of Arts and Science, Coimbatore held on 08 October 2021.
- ^{3.} Participated in a "**FDP**" organized by The Center of faculty development, Dr. NGP Institute of Technology, Coimbatore held on 01 October 2021.
- ^{4.} Participated in a "**Online FDP**" organized by The Department of Mathematics, Dr. NGP Institute of Technology, Coimbatore held on 7-12 June 2021.
- ^{5.} Participated in a "Value Added Course on Application of Mathematics and Programming in Science and Technology" organized by The Department of Mathematics, Karunya Institute of Technology and Sciences, Coimbatore held on 1-11nJune 2021.
- ^{6.} Participated in a "**Five Day PDP**" organized by The Department of Mathematics, Patrician College of Arts and Science, Chennai held on 31 May 04 June 2021.
- Participated in a "International Webinar" organized by The Department of Mathematics, KPR Institute of Engineering and Technology, Coimbatore held on 22 May 2021.
- ^{8.} Participated in a "**International Webinar**" organized by The Department of Mathematics, KPR Institute of Engineering and Technology, Coimbatore held on 16 December 2020.
- ^{9.} Participated in a "**Webinar"** organized by The Department of Mathematics, KPR Institute of Engineering and Technology, Coimbatore held on 08 October 2020.
- ^{10.} Participated in a "**Webinar"** organized by The Department of Mathematics, Kongu Engineering College, Erode on 19 September 2020.
- Participated in a "Two One-day Webinar" organized by The Department of Mathematics, KPR Institute of Engineering and Technology, Coimbatore held on 8-9September 2020.

- Participated in a "Faculty Development Programme" organized by The Department of Mathematics, KPR Institute of Engineering and Technology, Coimbatore held on 25-28August 2020.
- ^{13.} Participated in a "**Webinar**" organized by The Department of Mathematics, Nehru Institute of Engineering and Technology, Coimbatore on 13 August 2020.
- ^{14.} Participated in a "Seven Day Online International Faculty Development Programme" organized by The Department of Mathematics, Kumaraguru College of Technology, Coimbatore on 29 June- 06 July 2020.
- ^{15.} Participated in a "**Six Day National Webinar Series**" organized by The Department of Mathematics, KPR Institute of Engineering and Technology, Coimbatore on 06-11 July 2020.
- ^{16.} Participated in a "**Webinar"** organized by The Department of Mathematics, Mahendra College of Engineering, Salem on 12 July 2020.
- ^{17.} Participated in a "A Five Day International Faculty Development Programme" organized by The Department of Mathematics, SNS College of Technology, Coimbatore on 02-06 June 2020.
- ^{18.} Participated in a "**International Webinar**" organized by The Department of Mathematics, VO Chidambaram College, Thoothukudi 25 June 2020.
- ^{19.} Participated in a "**Online National Webinar**" organized by The Department of Mathematics, St. Joseph's Institute of Technology, Chennai on 30 June 2020.
- ^{20.} Participated in a "One Week online International Faculty Development Programme" organized by The Department of Mathematics, GMR Institute of Technology, Rajam, on 25-29 June 2020.
- ^{21.} Participated in a "**Three Days International Faculty Development Programme"** organized by The Department of Mathematics, NGP College of Technology, Coimbatore held on 24-26 June 2020.
- ^{22.} Participated in a "**Two Webinar"** organized by The Department of Mathematics, KPR Institute of Engineering and Technology, Coimbatore on 25-26 June 2020.

- Participated in a "One day National Seminar" organized by The Department of Mathematics, KPR Institute of Engineering and Technology, Coimbatore 24 June 2020.
- ^{24.} Participated in a "**International Web Conference**" organized by The Department of Mathematics, St. Mary's College, Thoothukudi on 17-19 June 2020.
- ^{25.} Participated in a "**Webinar"** organized by Anamalai University on 22 June 2020.
- ^{26.} Participated in a "**Two Days National Level Faculty Development Programme**" organized by The Department of Mathematics, Ramakrishnan College of Engineering, Trichy on 10-11 June 2020.
- ^{27.} Participated in a "**National Webinar**" organized by The Department of Mathematics, VO Chidamabaram College, Thoothukudi on 07 June 2020.
- ^{28.} Participated in a "**Online Faculty Development Programme"** organized by The Department of Mathematics, Mepco Schlenk Engineering College, Sivakasi on 10 June 2020.
- ^{29.} Participated in a "**Webinar"** organized by The Department of Mathematics, University College of Engineering BIT Campus, Trichy on 04 June 2020.
- ^{30.} Participated in a "**Webinar**" organized by The Department of Mathematics, GTN Arts College, Dindigul on 3June 2020.
- ^{31.} Participated in a "**Webinar"** organized by The Department of Mathematics, Hindusthan College of Engineering and Technology, Coimbatore on 04 June 2020.
- ^{32.} Participated in a "**Webinar**" organized by The Department of Mathematics, Kongunadu Arts and Science College, Coimbatore on 04 June 2020.
- ^{33.} Participated in a "**Webinar**" organized by The Department of Mathematics, Hindusthan College of Engineering and Technology, Coimbatore on 31 May 2020.

- ^{34.} Participated in a "Seven Days National Level Faculty Development Programme" organized by The Department of Mathematics, Nalla Muthu Goundre Mahalingam College, Pollachi on 27 May-02 June 2020.
- ^{35.} Participated in a "Seven Days National Level Faculty Development Programme" organized by The Department of Mathematics, Bannari Amman Institute of Technology, Erode on 01-07 June 2020.
- ^{36.} Participated in a "**Webinar**" organized by The Department of Mathematics, Dayananda Sagar College Of Engineering, Banglore on 07 June 2020.
- ^{37.} Participated in a "**Webinar**" organized by The Department of Mathematics, GTN Arts College, Pollachi on 03 June 2020.
- ^{38.} Participated in a National Conference on "**Computational Biology**" organized by The Department of Mathematics, Anna University, Coimbatore held on Bharathiar University 26 June 2018.
- ^{39.} Participated in a National Conference on "**Computational Topology and Differential Equations**" organized by The Department of Mathematics, Anna University and DRDO BLCS, Coimbatore held on Bharathiar University 21 April 2018.
- ^{40.} Participated in a "National Conference on Recent Advances in mathematics and its applications in science and engineering" organized by The Department of Mathematics, Dr. NGP Institute of Technology, Coimbatore on 3 February 2017.
- ^{41.} Participated in a "**National Conference on Computational Biology"** organized by The Department of Mathematics, Bharathiar University, Coimbatore held at DRDO-BU CLS on 27-28 June 2016.
- Presented a paper titled "Passivity Analysis of T-S fuzzy systems with time varying delay against nonlinear actuators" in the International Conference on Nonlinear Dynamical Systems held at Bharathiar University, Coimbatore on 24-26 March 2016.
- ^{43.} Participated in **FDP programme** on "Facilitation skills for teachers under TEQIP II for engineering colleges by DOTE and QIC" at GCT College, Coimbatore on 5-7 November 2014.

Membership in Professional Bodies

Name of the Professional Body	Nature of membership	Duration
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Indian Society of Industrial & Applied	Life-time	-
Mathematics		
Social Informatics and Telecommunication Engineering	1 Year	2013 - 2014

Awards / Honors

Awards / Honors	Agency / Institute	Year of Award
University Rank Holder	M. Sc.(Bharadidasan University)	2000

Recognition National / International

Nature of Recognition	Organization / Institution	Year