



**SRI RAMAKRISHNA INSTITUTE OF TECHNOLOGY**  
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**Ph.D Supervisor Details**

1. Name of the Faculty:	<b>Dr. S. Saravnakumar</b>
2. Designation:	<b>Assistant Professor of Mathematics</b>
3. Department:	<b>Science and Humanities</b>
4. Anna University Ref. No. for Supervisor Recognition:	<b>4370012</b>
5. Title of Ph.D. Thesis:	<b>A Study on Nonlinear Fuzzy Differential Equations in Biological Models</b>
6. Faculty in which Ph.D was awarded:	<b>Science and Humanities</b>
7. Area of Specialization in Ph.D:	<b>Fuzzy Differential Equations</b>
8. Year of Ph.D Completion:	<b>2020</b>
9. Year of got Supervisor Recognition:	<b>2024</b>



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10. List of Journals papers published:

Sl. No.	Author's	Title of the Paper	Name of the Journal	URL of the Journal Home Page	Volume, Issue no & Year of Publication	ISSN No.	DOI No.
1.	S Saravanakumar , A Eswari, OD Makinde, N Anbazhagan, Gyanendra Prasad Joshi, Woong Cho	Analysis of temperature-dependent thermal conductivity and fin efficiency: Direct Akbari-Ganji method	Case Studies in Thermal Engineering	<a href="https://www.sciencedirect.com/journal/case-studies-in-thermal-engineering">https://www.sciencedirect.com/journal/case-studies-in-thermal-engineering</a>	Volume 51, November 2023, 103627 1-14	Online ISSN: 2214-157X	<a href="https://doi.org/10.1016/j.csite.2023.103627">https://doi.org/10.1016/j.csite.2023.103627</a>
2.	Saravanakumar S , Eswari A , Haydar Akcac	Analytical and numerical solution of the nonlinear differential equation for self-igniting reaction diffusion systems: Mathematical modelling approach	International Journal of Nonlinear Analysis and Applications	<a href="https://ijnaa.semnan.ac.ir/">https://ijnaa.semnan.ac.ir/</a>	Volume 10 Issue 10 October 2023 107-116	Online ISSN 2008-6822	10.22075/IJNAA.2022.31572.3499
3.	S.Padma , N. Mehala , A. Eswari , M. E.G. Lyons , B. Manimegalai , L. Rajendran , S. Saravana kumar	Mathematical Analysis for Electron Transfer Mediator/ Heterogeneous Catalyst Composites in Polymer Modified Electrodes	International Journal of Electrochemical Science	<a href="https://www.sciencedirect.com/journal/international-journal-of-electrochemical-science">https://www.sciencedirect.com/journal/international-journal-of-electrochemical-science</a>	Volume 17, Issue 6, June 2022, 220649	1873-2569	<a href="https://doi.org/10.1016/j.jelechem.2020.114827">https://doi.org/10.1016/j.jelechem.2020.114827</a>



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4	A. Eswari, S. Saravanakumar	New Mathematical Analysis for Nonlinear Simultaneous Differential Equation in Micro-Disk Biosensor Using Hyperbolic Function Method	Journal of Electroanalytical Chemistry	<a href="https://www.sciencedirect.com/journal/journal-of-electroanalytical-chemistry">https://www.sciencedirect.com/journal/journal-of-electroanalytical-chemistry</a>	Volume 880, 1 January 2021, 114827	ISSN: 1452-3981	<a href="https://doi.org/10.20964/2022.06.44">https://doi.org/10.20964/2022.06.44</a>
5	S.Saravanakumar, A. Eswari, L.Rajendran, Marwan Abukhaled	A Mathematical Model of Risk Factors in HIV/AIDS Transmission Dynamics: Observational Study of Female Sexual Network in India	Applied Mathematics and Information Sciences	<a href="https://www.naturalpublishing.com/show.asp?JorID=1&amp;pgid=0">https://www.naturalpublishing.com/show.asp?JorID=1&amp;pgid=0</a>	Volume 14, No. 6, 967-976 (2020)	ISSN 1935-0090 (print) ISSN 2325-0399 (online)	<a href="http://dx.doi.org/10.18576/amis/140603">http://dx.doi.org/10.18576/amis/140603</a>
6	A. Eswari, S. Saravanakumar	Mathematical analysis of Dengue fever infection in India	Advances in Mathematics: Scientific Journal	<a href="https://research-publication.com/amsj">https://research-publication.com/amsj</a>	8 (2019) no.3, page. 641-650	ISSN 1857-8365 printed version ISSN 1857-8438 electronic version	
7	S.Saravanakumar, B.Sridevi, A.Eswari, L.Rajendran	Computational and Mathematical Analysis of Fuzzy Quota harvesting model in Fuzzy Environment using Homotopy perturbation method	Applied Mathematics and Information Sciences	<a href="https://www.naturalpublishing.com/show.asp?JorID=1&amp;pgid=0">https://www.naturalpublishing.com/show.asp?JorID=1&amp;pgid=0</a>	13, No S1,239-245,2019.	ISSN 1935-0090 (print) ISSN 2325-0399 (online)	<a href="https://dx.doi.org/10.18576/amis/13S125">https://dx.doi.org/10.18576/amis/13S125</a>



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11. Ph.D Research Scholars Details:

Sl.No	Reg. No	Name	Faculty	Reg. Year	Present Status	If completed, Year of Completion	Title of Thesis	No. of Journals Published	Thesis Copy*
1.	Nil								