

DEPARTMENT OF MATHEMATICS

i.	Name	Dr. S. DILIP JOSE
ii.	Date of Birth& Age	07-07-1992
iii.	Unique ID	1-43389718902
iv.	Education Qualifications	M.Sc., M.Phil., Ph.D.,
v.	Area of Specialization	Fluid Dynamics
vi.	Work Experience (in years)	3
	a. Teaching	3
	b. Research	7
	c. Industry	-
	d. Others	-
vii.	Courses taught at (Please Tick)	
	a. Under Graduate Level	√
	b. Post Graduate Level	√
viii.	No. of Projects Carried out	-
ix.	Research guidance (Number of Students)	
	a. Master (Completed/Ongoing)	2 / 1
	b. Ph.D. (Completed/Ongoing)	Ongoing - 1
x.	No. of Patents	
	a. Filed	1
	b. Granted	-
xi.	Technology Transfer	-
xii.	No. of papers published in Conferences	
	a. National	-
	b. International	21 / conferences 14
xiii.	No. of Research Publications in Journals	
	a. National	-
	b. International	21 / conferences 14
xiv.	No. of Books published with details (Name of the book, Publisher with ISBN, year of publication, etc.)	01-The book titled "<i>Understanding Uncertainty: Modern Approaches in Fuzzy Systems and Applications</i>" authored by Dr. S. Dilip Jose was published in May 2025 by Shanlax Publications. ISBN 978-93-6163-364-5

i.	Name	Dr. P. GEETHA
ii.	Date of Birth& Age	26.01.1983 & 42
iii.	Unique ID	1-9594517872
iv.	Education Qualifications	M.Sc., M.Phil, Ph.D
v.	Area of Specialization	Number Theory
vi.	Work Experience (in years)	
	a. Teaching	18 years
	b. Research	9 years
	c. Industry	-
	d. Others	-
vii.	Courses taught at (Please Tick)	
	a. Under Graduate Level	✓
	b. Post Graduate Level	✓
viii.	No. of Projects Carried out	-
ix.	Research guidance (Number of Students)	
	a. Master (Completed/Ongoing)	4 completed
	b. Ph.D. (Completed/Ongoing)	3 ongoing
x.	No. of Patents	
	a. Filed	01
	b. Granted	-
xi.	Technology Transfer	-
xii.	No. of papers published in Conferences	17
	a. National	02
	b. International	15
xiii.	No. of Research Publications in Journals	
	a. National	
	b. International	
xiv.	No. of Books published with details (Name of the book, Publisher with ISBN, year of publication, etc.)	01 1. Algebra, Calculus & Analytical Geometry, ISBN : 978-93-94503-01-04.

i.	Name	Dr. A. SASIKALA
ii.	Date of Birth& Age	15.07.1964 & 61.4 Years
iii.	Unique ID	1-7473686335
iv.	Education Qualifications	M.Sc., M.Phil., Ph.D
v.	Area of Specialization	Graph Theory
vi.	Work Experience (in years)	35.5 Years
	a. Teaching	35.5 Years
	b. Research	20 Years
	c. Industry	Nil
	d. Others	Nil
vii.	Courses taught at (Please Tick)	
	a. Under Graduate Level	✓
	b. Post Graduate Level	✓
viii.	No. of Projects Carried out	Nil
ix.	Research guidance (Number of Students)	
	a. Master (Completed/Ongoing)	15 / 1
	b. Ph.D. (Completed/Ongoing)	1 / 2
x.	No. of Patents	
	a. Filed	1
	b. Granted	Nil
xi.	Technology Transfer	
xii.	No. of papers published in Conferences	
	a. National	3
	b. International	30
xiii.	No. of Research Publications in Journals	
	a. National	3
	b. International	2
xiv.	No. of Books published with details (Name of the book, Publisher with ISBN, year of publication, etc.)	04 - Books 1. Engineering Mathematics I (2003) 2. Numerical Methods (June 2020) ISBN: 978-81-945211-8-1 3. Calculus & Linear Algebra (June 2020) ISBN: 978-81-954757-9-7 4. Probability and Statistics (October 2022) ISBN: 978-93-94503-00-7

i.	Name	Dr. B. SRIDEVI
ii.	Date of Birth& Age	21/07/1975
iii.	Unique ID	1-9594517139
iv.	Education Qualifications	M.Sc., PGDCA., M.Phil., Ph.D
v.	Area of Specialization	Stochastic Processes
vi.	Work Experience (in years)	
	a. Teaching	18
	b. Research	3
	c. Industry	Nil
	d. Others	Nil
vii.	Courses taught at (Please Tick)	
	a. Under Graduate Level	✓
	b. Post Graduate Level	✓
viii.	No. of Projects Carried out	Nil
ix.	Research guidance (Number of Students)	
	a. Master (Completed/Ongoing)	3 completed and 1 ongoing
	b. Ph.D. (Completed/Ongoing)	Nil
x.	No. of Patents	
	a. Filed	Nil
	b. Granted	Nil
xi.	Technology Transfer	-
xii.	No. of papers published in Conferences	
	a. National	1
	b. International	5
xiii.	No. of Research Publications in Journals	
	a. National	1
	b. International	5
xiv.	No. of Books published with details (Name of the book, Publisher with ISBN, year of publication, etc.)	2 (Proceedings - ISBN Number:978-81-971137-3-4, Published by JAYAM Publications- March 2024).

i.	Name	Dr. N. BALAMBIGAI
ii.	Date of Birth & Age	06.04.1978
iii.	Unique ID	1-9324447740
iv.	Education Qualifications	M.Sc., M.Phil., Ph.D.
v.	Area of Specialization	Topology, Fuzzy matrices
vi.	Work Experience (in years)	
	a. Teaching	19 Years
	b. Research	Nil
	c. Industry	Nil
	d. Others	Nil
vii.	Courses taught at (Please Tick)	
	a. Under Graduate Level	✓
	b. Post Graduate Level	✓
viii.	No. of Projects Carried out	Nil
ix.	Research guidance (Number of Students)	
	a. Master (Completed/Ongoing)	Nil
	b. Ph.D. (Completed/Ongoing)	Nil
x.	No. of Patents	
	a. Filed	Nil
	b. Granted	01
xi.	Technology Transfer	
xii.	No. of papers published in Journals/Conferences	
	a. National	Nil
	b. International	03
xiii.	No. of Research Publications in Journals/Conferences	
	a. National	Nil
	b. International	Nil
xiv.	No. of Books published with details (Name of the book, Publisher with ISBN, year of publication, etc.)	Nil

Name	:	Dr. R.Arumugam
Date of Birth & Age	:	21/05/1980 & 45
Unique ID	:	1-9590653091
Department	:	Mathematics
Educational Qualification	:	M.Sc (Stat)., M.Sc (Maths)., MBA., PGDCA., M.Phil., Ph.D
Subject of Interest	:	Stochastic Processes, Operations Research, Statistical Quality Control
Work Experience (in years)	:	Teaching : 21 Research : 16
Paper Published		International:41 1. R.Arumugam and Dr.A. Pandurangan,“Variance of the time to Recruitment in a Single Graded Manpower System- SCBZ Property”, - International Journal of Research in Computer Applicationand Management, Vol. No.1 (2011), Issue No. 6(August), ISSN-2231 1009. 2. R.Arumugam, “A Study on Applications of Statistics in Higher Education”, -International Journal of Scientific Research, Vol.No.4, Issue 4, April special issue 2015, ISSN-2277 8179. 3. Dr.R.Arumugam, “Applications of Stochastic Models in Manpower Levels for Business”, - International Journal of Recent Trends in Engineering and Research (IJRTER), Vol.3, Issue 1, January 2017, Page No. 14-18, ISSN-2455 1457. 4. Dr.R.Arumugam and M.Rajathi, “Applications of Manpower with Various Stages in Business Using Stochastic Models”, - International Journal of Recent Trends in Engineering and Research (IJRTER), Vol.3, Issue 1, January 2017, Page No. 95-100, ISSN-2455 1457. 5. E.Preethi and Dr.R.Arumugam, “Applications of Stochastic Models in Web Pageranking”, - International Journal of Recent Trends in Engineering and Research (IJRTER), Vol.3, Issue 3, March 2017, Page No. 245-252, ISSN-2455 1457. 6. Dr.R.Arumugam , “A Comparative Study on Stochastic Analysis of Manpower levels for Business using four and six point state space” International Journal of Research in Computer Application &Management , Vol. No.7 Issue No.10, October 2017, Page No. 59-62, ISSN-2231 1009. 7. Dr.R.Arumugam and M.Rajathi, “Applications of manpower levels for business using six and eight point state space in the stochastic models”, - International Journal of Statistics and Applied Mathematics, Vol. No.2 Issue No.6 October 2017, Page No. 56-60, ISSN- 2456-1452. 8. M.Rajathi and Dr.R.Arumugam, “A Study on PageRank Algorithm using Markov Chain Model”, Shanlax International Journal of Arts, Science and Humanities, Vol.5, Special Issue 4, April 2018, Page No. 97-101, UGC Approved Journal Number 4S960, ISSN-

		<p>2321-788X.</p> <p>9. Dr.R.Arumugam and M.Rajathi, “Applications of Stochastic Models on Test mis-scaling in Educational and Psychological Measurement” International Journal of Recent Trends in Engineering and Research (IJRTER), Vol.4, Issue 6, June 2018, Page No. 133-137, ISSN-2455 1457.</p> <p>10. Dr.R.Arumugam, V.Yogendramani and M.Rajathi “Applications of Manpower System with Various Qualifications In Educational Institution Using Mortality Table Techniques”, - International Journal of Modern Trends in Engineering and Research (IJMTER), Vol. No.5 Issue No.10 October 2018, Page No. 1-8 Scientific Journal Impact Factor(SJIF)- 5.278. ISSN-2349-9745.</p> <p>11. R.Arumugam and M.Rajathi, “Manpower Levels for Business with Various Recruitment Rates in the Ten Point State Space System through Stochastic Models”,- International Journal of Computer Sciences and Engineering (IJCSE), Vol. No.7, Special Issue No.2 January 2019, Page No. 58-61, UGC Approved journal. Impact factor.3.02, EISSN- 2347-2693</p> <p>12. R.Arumugam and M.Rajathi, “Manpower Levels for Business with Various Recruitment Rates through Stochastic Models”,- International Journal of Engineering and Future Technology (IJEFT), Vol. No.16, Issue No.24 Feb 2019, Page No. 58-61, ISSN- 2455-6432</p> <p>13. M.Rajathi and R.Arumugam, “Applications of Mobile Learning In The Higher Educational Institutions Through Statistical Approach” International Journal of Recent Technology and Engineering, Paper Id: A3296058119, ISSN 2277-3878(online) / Impact Factor 5.11, Vo.8, Issue 1, May 2019, Page No 1431-1439, indexed by Scopus</p> <p>14. R.Arumugam and M.Rajathi, “Applications of Manpower Levels for Business with various Recruitment Rates in the System Through Stochastic Models” International Journal of Recent Technology and Engineering, ISSN 2277-3878(online) / Impact Factor 5.11, Vo.8, Issue 2S4, July 2019, Page No 719- 722, indexed by Scopus</p> <p>15. Dr.R.Arumugam, R.Rakesh and M.Rajathi, “A Statistical Approach on Experimental Study for Determining Switching Frequency of Inductive Sensor Using PLC” International Journal of Research and Analytical Reviews (IJRAR), E-ISSN 2348-1269, P- ISSN 2349-5138 / International Peer Reviewed Journal, Refereed Journal, Indexed Journal, Impact Factor 5.75, (Journal No : 43602)Vo.6, Issue 2, June 2019, Page No 469-473, Approved by UGC and ISSN.</p> <p>16. K. Subhikshaa, Dr.R.Arumugam and M.Rajathi, “A Study on Applications of Transportation Problem to Minimize Cost in Various Pharmacies” International Journal of Research and Analytical Reviews (IJRAR), E-ISSN 2348- 1269, P- ISSN 2349-5138 / International Peer Reviewed Journal, Refereed Journal, Indexed</p>
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		<p>Journal, Impact Factor 5.75, (Journal No : 43602) Vo.6, Issue 2, June 2019, Page No 507-512, Approved by UGC and ISSN.</p> <p>17. R. Yasotha Nandhini, Dr.R.Arumugam and M.Rajathi, "A Statistical Approach on Applications of Inventory Management in the Departmental Store" International Journal of Research and Analytical Reviews (IJRAR), E- ISSN 2348-1269, P- ISSN 2349-5138 / International Peer Reviewed Journal, Refereed Journal, Indexed Journal, Impact Factor 5.75, (Journal No : 43602) Vo.6, Issue 2, June 2019, Page No 513-518, Approved by UGC and ISSN.</p> <p>18. Dr. R.Arumugam and M.Rajathi, "Applications of Manpower Levels for Business with Various Recruitment Rates in an Eleven point State space through Stochastic Models", Compliance Engineering Journal, ISSN 0898-3577 / Impact Factor 6.2, Vol.10, Issue 12, Dec 2019, Page No 384-392, An UGC-CARE Approved Group II Journal</p> <p>19. Dr. R.Arumugam, B. Sri Ranjani and M.Rajathi, "A Statistical Study on the Production of Crops Before and After Gaja Cyclone in the Delta Region around Thanjavur District", Compliance Engineering Journal, ISSN 0898-3577 / Impact Factor 6.2, Vol.10, Issue 12, Dec 2019, Page No 598-607, An UGC-CARE Approved Group II Journal</p> <p>20. Dr. R.Arumugam, C. Gowri and M.Rajathi, "A Statistical Study on the Impact of Dengue Fever in Thanjavur District Using SPSS", Compliance Engineering Journal, ISSN 0898-3577 / Impact Factor 6.2, Vol.10, Issue 12, Dec 2019, Page No 671-683, An UGC-CARE Approved Group II Journal</p> <p>21. Dr. R.Arumugam, and M.Rajathi, " A Markov Model for Prediction of Corona Virus COVID-19 in India- A Statistical Study", Journal of Xidian University, ISSN 1001-2400/ Impact Factor 5.4, Vol.14, Issue 4, April 2020, Page No 1422-1426, An UGC-CARE Approved Group II Journal</p> <p>22. Mr. R.Rakesh, Dr. R.Arumugam and M.Rajathi, "A Statistical Study on Segregation and Reuse of Domestic Waste in Apartments at Metro Cities Using Automation Technology (PLC)", AEGAEUM JOURNAL, ISSN 0776-3808 / Impact Factor 6.1, Vol.8, Issue 4, April 2020, Page No 1214-1221, An UGC-CARE Approved Group II Journal</p> <p>23. M.Rajathi and Dr. R.Arumugam, "An Application of Spatial Data mining in the study of Corona Virus (COVID-19) Pandemic through Statistical Approach", AEGAEUM JOURNAL, ISSN 0776-3808 / Impact Factor 6.1, Vol.8, Issue 4, April 2020, Page No 1698-1704, An UGC-CARE Approved Group II Journal</p>
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		<p>24. Dr. R.Arumugam, and M.Rajathi, “Air Pollution During Pre Pandemic Covid-19 and In The Lockdown Period At Chennai City: A Statistical Study”, Juni Khyat, ISSN 2278-4632/ Impact Factor 6.625, Vol.10, Issue 5, No.15, May 2020, Page No 152-163, An UGC-CARE Approved Group I Journal</p> <p>25. R.Rakesh, Dr. R.Arumugam, M.Rajathi and U.SaravanaKumar “A statistical approach on experimental study for determining switching frequency of retro reflector sensor using PLC”, International Journal of Advance Research, Ideas and Innovations in Technology, ISSN 2454-132X / Impact Factor 6.078, Vol.6, Issue 3, May-June 2020, Page No 640-647, Peer Reviewed Journal</p> <p>26. Dr. R.Arumugam, M.Rajathi, R.Rakesh and U.SaravanaKumar, “An Impact of Corona Virus Covid-19 in India During the Initial Lockdown Period - A Statistical Study”, Juni Khyat, ISSN 2278-4632/ Impact Factor 6.625, Vol.10, Issue 6, No.9, June 2020, Page No 214-224, An UGC-CARE Approved Group I Journal</p> <p>27. Dr. R.Arumugam, M.Rajathi, T.Sureshkumar, R.Yasotha Nandhini, D.Aasha, “Manpower Levels for Business with Various Recruitment Rates in Twelve point State space through Stochastic Models”, Juni Khyat, ISSN 2278-4632/ Impact Factor 6.625, Vol.10, Issue 7, No.10, July 2020, Page No 132-139, An UGC-CARE Approved Group I Journal</p> <p>28. S.Sowmya Bharathi, Dr. R.Arumugam, M.Rajathi, “A Statistical Study on Intelligence Quotient (IQ) test between males and females in the age group of 20 and 30 in Thanjavur District”, Compliance Engineering Journal, ISSN 0898-3577 / Impact Factor 6.2, Vol.11, Issue 12, Dec 2020, Page No 325-336, An UGC-CARE Approved Group II Journal</p> <p>29. M.Harikumar, Dr. R.Arumugam, M.Rajathi, “The Impact of COVID – 19 at Mayiladuthurai District, Tamilnadu: A Statistical Study”, Compliance Engineering Journal, ISSN 0898-3577 / Impact Factor 6.2, Vol.11, Issue 12, Dec 2020, Page No 349-362, An UGC-CARE Approved Group II Journal</p> <p>30. Dr. R.Arumugam, V.Nandhini, M.Rajathi, “The Impact of Diabetic based on BMI, BP and Sugar –A Statistical Study”, Compliance Engineering Journal, ISSN 0898-3577 / Impact Factor 6.2, Vol.12, Issue 1, Jan 2021, Page No 207-221, An UGC-CARE Approved Group II Journal</p> <p>31. Dr. R.Arumugam, K.RajaSri, M.Rajathi, “Students Health based on Body Mass Index of the High School Students During the academic years 2017-2020”, Compliance Engineering Journal, ISSN 0898-3577 / Impact Factor 6.2, Vol.12, Issue 1, Jan 2021, Page No 285-296, An UGC-CARE Approved Group II Journal</p>
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	<p>32. Dr. R.Arumugam, S.Safrin Preethi, M.Rajathi, “Application of Latin Square Design in the Analysis of the Effectiveness of Four Different Traffic Violation on Road Accidents –A Study”, Compliance Engineering Journal, ISSN 0898-3577 / Impact Factor 6.2, Vol.12, Issue 2, Feb 2021, Page No 18-27, An UGC-CARE Approved Group II Journal</p> <p>33. K.Kanimozhi, Dr. R.Arumugam, M.Rajathi, “Students involvement in sports and cultural by using Correlation and Chi-square test”, Compliance Engineering Journal, ISSN 0898-3577 / Impact Factor 6.2, Vol.12, Issue 2, Feb 2021, Page No 167-178, An UGC-CARE Approved Group II Journal</p> <p>34. R.Rakesh, I. Karthic Subramiyan, Dr. R.Arumugam, M.Rajathi, “Experimental investigation of Switching Frequency of magnetic sensor Using Statistical approach”, Compliance Engineering Journal, ISSN 0898-3577 / Impact Factor 6.2, Vol.12, Issue 4, April 2021, Page No 155-165, An UGC-CARE Approved Group II Journal</p> <p>35. Dr. R.Arumugam, S.Vinodhini, “Quality Analysis in the Interlocking Stones with Markov Model”, Journal of Hunan University (Natural Sciences) , ISSN 1674-2974 / Impact Factor 0.48, Vol.48, No.12, Dec 2021, Page No 2094-2104, Indexed by Scopus Web of Science</p> <p>36. R.Rakesh, Dr. R.Arumugam, M.Rajathi, S.Sanjai, M.Gobinath, “A Mother-Child Aerial Dynamic Charging station for Survey Drones”, International Journal of Early Childhood Special Education (INT-JECSE)ISSN: 1308-5581 Vol 14, Issue 03, April 2022 / Impact Factor 6.2, Page No 2966-2973, An UGC-CARE Approved Group II Journal, Indexed by Web of Science</p> <p>37. Dr.R.Arumsugam, S.Vinodhini, “Quality Analysis In The Manufacturing Industry By Using Markov Chain Method”, International Journal of Early Childhood Special Education (INT-JECSE), ISSN: 1308-5581/ Impact factor. 0.76, Vol 14, Issue 05, July 2022, Page No.2966-2973 Indexed by Web of Science</p> <p>38. M.S Nidhya, R. Arumugam, A. Kannagi, T. Revathi, M.P. Karthikeyan, Analysis of Flat and Hierarchical Routing Structure Supported Protocol in Mobile Ad-hoc Networks published in 2023 International Conference on Intelligent and Innovative Technologies in Computing, Electrical and Electronics (IITCEE), IEEE Xplore: 10 April 2023, INSPEC Accession Number: 22931737, DOI: 10.1109/IITCEE57236.2023.10091055, Indexed by Scopus</p> <p>39. M.Rajathi, S. Abinaya. and Dr. R.Arumsugam, Detection of Plant Leaf Diseases using Machine Learning Algorithm, Education and Society, ISSN : 2278-6864, Publisher : Indian Institute of Education UGC Care Group I. May 2023</p>
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		<p>40. Sarathambal K., Arumugam Raju, “Modelling the Impact of Education on Textile Workforce productivity using Psychometric reliability, decision tree analysis, and Markov Chains”, International Journal of Basic and Applied Sciences, E-ISSN: 2227-5053, Impact factor: 0.250 Vol 14, Issue 05, September 2025, Page No.144-149 Indexed by Scopus</p> <p>41. Arumugam Raju, “A Comprehensive Review of Markov Models in Air Quality Assessment and Forecasting: Methodologies, Applications, and Future Directions”, Aerosol Science and Engineering, ISSN: 2510375X, EISSN-25103768, Impact factor: 2, October 2025, Page No.1-13, Publisher: Springer Nature Singapore, Indexed by Scopus and WoS- ESCI - Emerging Sources Citation Index, Q3 journal</p>
		<p>National: 07</p> <ol style="list-style-type: none"> 1. R.Arumugam, “Identifying various facilities in BHC Through Factor Analysis”, The PMU Journal of Humanities and Sciences and Management, Jan – June 2011, Vol 2. No.2, Page No.79-88. 2. R.Arumugam, “Comparitive Study on Human Values in School and College Students for Promoting Peace Education”, The PMU Journal of Humanities Sciences and Management, January – June 2011, Vol No.2, Page No.79-88. 3. R.Arumugam , “A Study on the Traffic Problems Through Factor Analysis”, The PMU Journal of Humanities Sciences and Management, Jan – June 2012, Vol 3. No.1, Page No.01- 12. 4. R.Arumugam, “Optimal Promotion Policy to Manpower system”, - The PMU Journal of Humanities Sciences and Management, July – Dec 2012, Vol 3. No.2, Page No.39-49. 5. R.Arumugam, “Stochastic Analysis of Manpower levels for Business”, - PMU Journal of Humanities Sciences and Management, January – June 2013, Vol 4 No.1, Page No.45- 56. 6. R.Arumugam and M.Rajathi, “Optimal Time for intended Retirement and Promotion”, - The PMU Journal of Humanities Sciences and Management, July – Dec 2013, Vol 4. No.2, Page No.61-74. 7. R.Arumugam, “A Study on Service Quality in Service Industries Using Sampling Techniques”, - PMU Journal of Humanities Sciences and Management, January- June 2014, Vol 5 No.1, Page No.61-71. <ol style="list-style-type: none"> 1. Statistics and Operations Research (Sep 2008) ISBN :978-81-90-7821-7-6 2. Business Statistics (Sep 2008) ISBN : 978-81-90-7821-6-8

		<p>3. Probability and Statistics (for COADE)</p> <p>4. TNPSC Guide (Sep 2016) ISBN :978-93-80132-16-7</p> <p>5. Business Mathematics and statistics (March 2020) ISBN: 978-81-945211-2-9</p> <p>6. Business Statistics (for BBA, BCom, and BSc Science students) –(Dec 2022), “978-93-94503-03-8”</p> <p>7. Mathematics for Data Science – III (for Data Science – III) (Nov 2023)-“978-93-94503-55-7”</p> <p>8. Fundamentals of Data Science & R-Programming – (for BSc Students) - October 2024 - ISBN-“978-93-94503-80-9” –DURAIGO Publications. http://duraigopublications.com/book_details.php?pid=33</p> <p>1. Title of the invention: A MODEL TO PREDICT VITAL SIGN USING MACHINE LEARNING Application No.202241019884A Date of filing of Application :01/04/2022, Publication Date : 22/04/2022</p> <p>2. Title of the invention: METHOD FOR REDUNDANT TRANSMISSION OF DATA MESSAGES IN COMMUNICATION USING MACHINE LEARNING Application No. 202341054350 A, Date of filing of Application :12/08/2023, Publication Date: 01/09/2023</p> <p>3. Title of the invention: A SYSTEM AND METHOD FOR AUTOMATED IMAGE SEGMENTATION AND OBJECT DETECTION USING MACHINE LEARNING TECHNIQUES Application No. 202441057980 A A, Date of filing of Application :31/07/2024, Publication Date: 09/08/2024</p> <p>1. National Level Award on “Perasiriyar Kalaimani Award -2019”, Awarded by Kaviyarasar Kalai Tamil Sangam, Namakkal on 20.10.2019</p> <p>2. Department Award - Pulliyiyal Semmal award, awarded by Erode Tamil Sangapperavai, Erode on 20.10.2019</p> <p>3. National level Award on “Aasiriya Arima Award 2020”, awarded by Kurinji Kabilar Tamil Sangam, Pilikkal palayam, Namakkal on 26.01.2020</p> <p>4. “Kalam Research Award”, awarded by ISSN International Research award (Board of Research Bureau Veritas) on 13.10.2021</p> <p>5. C V Raman Prize 2022 award given by Institute of Researchers for the outstanding professional & research achievement in the field of Mathematics on 25th May 2022. This research unit of ISPI, registered with Ministry of MSME, Govt of India</p>
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		<p>6. Certificate of Appreciation Extra Mile Award given by Periyar Maniammai Institute of Science and Technology, Thanjavur for the completion of NPTEL course during the month of Nov 2022 organized by PMIST staff club</p> <p>7. Certificate of Appreciation Extra Mile Award given by Periyar Maniammai Institute of Science and Technology, Thanjavur for the book publication during the month of Dec 2022 organized by PMIST staff club</p> <p>8. Certificate of Appreciation Extra Mile Award given by Periyar Maniammai Institute of Science and Technology, Thanjavur for the Scopus publication during the month of May 2023 organized by PMIST staff club</p> <p>9. Certificate of Appreciation Extra Mile Award given by Periyar Maniammai Institute of Science and Technology, Thanjavur for the Patend publication during the month of Sep 2023 organized by PMIST staff club</p> <p>Certificate of Appreciation Extra Mile Award given by Periyar Maniammai Institute of Science and Technology, Thanjavur for the Book publication during the month of Dec 2023 organized by PMIST staff club</p>
Courses taught at (Please Tick) a. Under Graduate Level b. Post Graduate Level	: : 	✓ ✓
No. of Projects Carried out	: 	01 (TNSCST students project) Status: Completed
Research guidance (Number of Students) a. Master (Completed/Ongoing) b. Ph.D. (Completed/Ongoing)	: 	Completed =09, Ongoing = 01 Completed = Nil, Ongoing = 04
Google Scholar Link	: 	https://scholar.google.com/citations?hl=en&user=tLF_oO8A-AAAJ
Contact Details		Dr. R.Arumugam Assistant Professor (SG) Department of Mathematics, Periyar Maniammai Institute of science and Technology Thanjavur-613403 Phone: 9003976747 Mail: arumugamr@pmu.edu , arumugamr2@gmail.com

i.	Name	Dr. J. JAYANTHI
ii.	Date of Birth & Age	04.07.1981 & 44 YEARS
iii.	Unique ID	1-7474080553
iv.	Education Qualifications	M.Sc., M.Phil., SET., Ph.D
v.	Area of Specialization	FUZZY INVENTORY MANAGEMENT, FUZZY SETS AND FUZZY LOGIC
vi.	Work Experience (in years)	
	a. Teaching	18 YEARS AND 7 MONTHS
	b. Research	11 YEARS
	c. Industry	-
	d. Others	-
vii.	Courses taught at (Please Tick)	
	a. Under Graduate Level	✓
	b. Post Graduate Level	✓
viii.	No. of Projects Carried out	-
ix.	Research guidance (Number of Students)	
	a. Master (Completed/Ongoing)	9
	b. Ph.D. (Completed/Ongoing)	4 (Pursuing)
x.	No. of Patents	
	a. Filed	2
	b. Granted	-
xi.	Technology Transfer	-
xii.	No. of papers published in Journals/Conferences	
	a. National	1
	b. International	10
xiii.	No. of Research Publications in Journals/Conferences	
	a. National	1
	b. International	20
xiv.	No. of Books published with details (Name of the book, Publisher with ISBN, year of publication, etc.)	-

i.	Name	Dr. K. SELVARAJ
ii.	Date of Birth & Age	27.05.77 & 48
iii.	Unique ID	1-9322229726
iv.	Education Qualifications	M.Sc., M.Phil., B.Ed., Ph.D.
v.	Area of Specialization	Fluid Dynamics
vi.	Work Experience (in years)	11 ½ Years
	a. Teaching	11 ½ Years
	b. Research	7 ½ Years
	c. Industry	-
	d. Others	-
vii.	Courses taught at (Please Tick)	
	a. Under Graduate Level	✓
	b. Post Graduate Level	✓
viii.	No. of Projects Carried out	-
ix.	Research guidance (Number of Students)	
	a. Master (Completed/Ongoing)	-
	b. Ph.D. (Completed/Ongoing)	-
x.	No. of Patents	-
	a. Filed	-
	b. Granted	-
xi.	Technology Transfer	
xii.	No. of papers published in Journals/Conferences	6
	a. National	-
	b. International	6
xiii.	No. of Research Publications in Journals/Conferences	
	a. National	2
	b. International	-
xiv.	No. of Books published with details (Name of the book, Publisher with ISBN, year of publication, etc.)	-

i.	Name	Ms. R. POONKODI
ii.	Date of Birth & Age	21.08.1991 & 34
iii.	Unique ID	1-44728379706
iv.	Education Qualifications	M.Sc., M.Phil., SET., D.T.Ed
v.	Area of Specialization	Fuzzy Inventory Model
vi.	Work Experience (in years)	4 ½ yrs
	a. Teaching	4 ½ yrs
	b. Research	1 ½ yrs
	c. Industry	-
	d. Others	-
vii.	Courses taught at (Please Tick)	
	a. Under Graduate Level	✓
	b. Post Graduate Level	✓
viii.	No. of Projects Carried out	-
ix.	Research guidance (Number of Students)	-
	a. Master (Completed/Ongoing)	-
	b. Ph.D. (Completed/Ongoing)	-
x.	No. of Patents	-
	a. Filed	-
	b. Granted	-
xi.	Technology Transfer	-
xii.	No. of papers published in Journals/Conferences	-
	a. National	-
	b. International	-
xiii.	No. of Research Publications in Journals/Conferences	-
	a. National	-
	b. International	-
xiv.	No. of Books published with details (Name of the book, Publisher with ISBN, year of publication, etc.)	-

i.	Name	Dr. P.N.SUDHA
ii.	Date of Birth & Age	08.11.1975 / 50
iii.	Unique ID	1-7473686377
iv.	Education Qualifications	M.Sc., M.Phil.,Ph.D
v.	Area of Specialization	Matrix Theory
vi.	Work Experience (in years)	
	a. Teaching	24
	b. Research	20
	c. Industry	-
	d. Others	-
vii.	Courses taught at (Please Tick)	
	a. Under Graduate Level	✓
	b. Post Graduate Level	✓
viii.	No. of Projects Carried out	
ix.	Research guidance (Number of Students)	
	a. Master (Completed/Ongoing)	9
	b. Ph.D. (Completed/Ongoing)	3
x.	No. of Patents	
	a. Filed	1
	b. Granted	
xi.	Technology Transfer	
xii.	No. of papers published in Journals/Conferences	
	a. National	1
	b. International	17
xiii.	No. of Research Publications in Journals/Conferences	
	a. National	1
	b. International	17
xiv.	No. of Books published with details (Name of the book, Publisher with ISBN, year of publication, etc.)	2 Algebra, Calculus & Analytical Geometry Numerical Methods

i.	Name	Dr. BALAKUMAR. R
ii.	Date of Birth & Age	13.07.1982 & 43
iii.	Unique ID	1-11069098995
iv.	Education Qualifications	M.Sc., M.Phil., Ph.D.,
v.	Area of Specialization	Fuzzy Mathematics
vi.	Work Experience (in years)	
	a. Teaching	18 years 04 months
	b. Research	11 years 08 months
	c. Industry	nil
	d. Others	nil
vii.	Courses taught at (Please Tick)	
	a. Under Graduate Level	✓
	b. Post Graduate Level	✓
viii.	No. of Projects Carried out	
ix.	Research guidance (Number of Students)	
	a. Master (Completed/Ongoing)	2 completed
	b. Ph.D. (Completed/Ongoing)	4 ongoing
x.	No. of Patents	
	a. Filed	3
	b. Granted	nil
xi.	Technology Transfer	
xii.	No. of papers published in Journals/Conferences	
	a. National	13
	b. International	13
xiii.	No. of Research Publications in Journals/Conferences	
	a. National	13
	b. International	13
xiv.	No. of Books published with details (Name of the book, Publisher with ISBN, year of publication, etc.)	Nil

i.	Name	Dr. C. VIMALA
ii.	Date of Birth & Age	16.07.1965 & 60 years
iii.	Unique ID	1-7473686185
iv.	Education Qualifications	M.Sc., M.Phil., Ph.D
v.	Area of Specialization	Graph Theory
vi.	Work Experience (in years)	35.5 Years
	a. Teaching	35.5 Years
	b. Research	20 Years
	c. Industry	Nil
	d. Others	Nil
vii.	Courses taught at (Please Tick)	
	a. Under Graduate Level	✓
	b. Post Graduate Level	✓
viii.	No. of Projects Carried out	2
ix.	Research guidance (Number of Students)	
	a. Master (Completed / Ongoing)	15 / 1
	b. Ph.D.(Completed / Ongoing)	1 / 3
x.	No. of Patents	
	a. Filed	1
	b. Granted	Nil
xi.	Technology Transfer	
xii.	No. of papers published in Journals / Conferences	
	a. National	04
	b. International	30
xiii.	No. of Research Publications in Journals / Conferences	
	a. National	04
	b. International	34

xiv.	No. of Books published with details (Name of the book, Publisher with ISBN, year of publication, etc.)	<p>04 - Books</p> <ol style="list-style-type: none"> 5. Engineering Mathematics I (2003) 6. Total Quality Management (one chapter - Statistics) (2004) 7. Numerical Methods (June 2020) ISBN: 978-81-945211-8-1 8. Calculus & Linear Algebra (June 2020) ISBN: 978-81-954757-9-7 9. Probability and Statistics (October 2022) ISBN: 978-93-94503-00-7
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i.	Name	DR. BUVANESWARI S
ii.	Date of Birth & Age	26-MAY-1966 & 59 YEARS
iii.	Unique ID	1-3723377026
iv.	Education Qualifications	B.SC., B.ED., M.SC.,MCA.,M.PHIL, PH.D
v.	Area of Specialization	ALGEBRA
vi.	Work Experience (in years)	29 Y 4 M
	a. Teaching	
	b. Research	
	c. Industry	
	d. Others	
vii.	Courses taught at (Please Tick)	
	a. Under Graduate Level	✓
	b. Post Graduate Level	✓
viii.	No. of Projects Carried out	
ix.	Research guidance (Number of Students)	
	a. Master (Completed/Ongoing)	4-M.SC + 3- M.PHIL
	b. Ph.D. (Completed/Ongoing)	GUIDING: 4 SCHOLARS
x.	No. of Patents	1
	a. Filed	
	b. Granted	
xi.	Technology Transfer	
xii.	No. of papers published in Journals/Conferences	
	a. National	1
	b. International	17
xiii.	No. of Research Publications in Journals/Conferences	17
	a. National	
	b. International	
xiv.	No. of Books published with details (Name of the book, Publisher with ISBN, year of publication, etc.)	1. ENGINEERING MATHEMATICS I AND II (2003) 2. CALCULUS AND LINEAR ALGEBRA, (2022)

i.	Name	DR. VIJAYALAKSHMIP
ii.	Date of Birth & Age	21-MAY-69 & 56 YEARS
iii.	Unique ID	1-7473686371
iv.	Education Qualifications	B.SC, M.SC., Ph.D
v.	Area of Specialization	ALGEBRA
vi.	Work Experience (in years)	
	a. Teaching	22
	b. Research	7
	c. Industry	
	d. Others	
vii.	Courses taught at (Please Tick)	
	a. Under Graduate Level	✓
	b. Post Graduate Level	✓
viii.	No. of Projects Carried out	
ix.	Research guidance (Number of Students)	
	a. Master (Completed/Ongoing)	3
	b. Ph.D. (Completed/Ongoing)	
x.	No. of Patents	
	a. Filed	
	b. Granted	
xi.	Technology Transfer	
xii.	No. of papers published in Journals/Conferences	
	a. National	1
	b. International	4
xiii.	No. of Research Publications in Journals/Conferences	5
	a. National	
	b. International	1
xiv.	No. of Books published with details (Name of the book, Publisher with ISBN, year of publication, etc.)	

i.	Name	MS. RAJESWARI K
ii.	Date of Birth & Age	13-NOV-1982 & 43 YEARS
iii.	Unique ID	1-7474080559
iv.	Education Qualifications	B.SC., M.SC.,
v.	Area of Specialization	ALGEBRA
vi.	Work Experience (in years)	
	a. Teaching	
	b. Research	
	c. Industry	
	d. Others	
vii.	Courses taught at (Please Tick)	
	a. Under Graduate Level	✓
	b. Post Graduate Level	✓
viii.	No. of Projects Carried out	
ix.	Research guidance (Number of Students)	
	a. Master (Completed/Ongoing)	2
	b. Ph.D. (Completed/Ongoing)	
x.	No. of Patents	1
	a. Filed	
	b. Granted	
xi.	Technology Transfer	
xii.	No. of papers published in Journals/Conferences	
	a. National	
	b. International	
xiii.	No. of Research Publications in Journals/Conferences	
	a. National	4
	b. International	2
xiv.	No. of Books published with details (Name of the book, Publisher with ISBN, year of publication, etc.)	

i.	Name	MS. ANUSHA N
ii.	Date of Birth & Age	20-JUL-1982 & 43 YEARS
iii.	Unique ID	1-7474080575
iv.	Education Qualifications	B.SC., M.SC.,
v.	Area of Specialization	ALGEBRA
vi.	Work Experience (in years)	15 YEARS 2 MONTHS
	a. Teaching	
	b. Research	
	c. Industry	
	d. Others	
vii.	Courses taught at (Please Tick)	
	a. Under Graduate Level	✓
	b. Post Graduate Level	✓
viii.	No. of Projects Carried out	
ix.	Research guidance (Number of Students)	
	a. Master (Completed/Ongoing)	4
	b. Ph.D. (Completed/Ongoing)	
x.	No. of Patents	
	a. Filed	
	b. Granted	
xi.	Technology Transfer	
xii.	No. of papers published in Journals/Conferences	
	a. National	
	b. International	
xiii.	No. of Research Publications in Journals/Conferences	4
	a. National	
	b. International	6
xiv.	No. of Books published with details (Name of the book, Publisher with ISBN, year of publication, etc.)	1.FUZZY ANALYSIS OF TYPE II SLICE SET 2. TYPE 1SLICE SET AND ITS PROPERTIES ISBN: 978-81-19042-81-4

i.	Name	DR. A. HELEN SHOBANA
ii.	Date of Birth & Age	08-05-1986 & 39 YEARS
iii.	Unique ID	1-44728379676
iv.	Education Qualifications	B.SC., M.SC., Ph.D
v.	Area of Specialization	FUZZY OPTIMIZATION
vi.	Work Experience (in years)	
	a. Teaching	12 YEARS
	b. Research	4 YEARS
	c. Industry	
	d. Others	
vii.	Courses taught at (Please Tick)	
	a. Under Graduate Level	✓
	b. Post Graduate Level	✓
viii.	No. of Projects Carried out	
ix.	Research guidance (Number of Students)	
	a. Master (Completed/Ongoing)	30
	b. Ph.D. (Completed/Ongoing)	
x.	No. of Patents	
	a. Filed	
	b. Granted	
xi.	Technology Transfer	
xii.	No. of papers published in Journals/Conferences	
	a. National	
	b. International	
xiii.	No. of Research Publications in Journals/Conferences	5
	a. National	
	b. International	5
xiv.	No. of Books published with details (Name of the book, Publisher with ISBN, year of publication, etc.)	

i.	Name	Dr. M. Harikumaran
ii.	Date of Birth & Age	15/09/1998 & 27 YEARS
iii.	Unique ID	1-47081798830
iv.	Education Qualifications	PhD (Highly Recommend)
v.	Area of Specialization	<input type="checkbox"/> Fuzzy Logic and Fuzzy Inference Systems <input type="checkbox"/> Precision Agriculture <input type="checkbox"/> Optimization Techniques <input type="checkbox"/> Machine Learning Applications <input type="checkbox"/> Decision Support Systems <input type="checkbox"/> Statistical Analysis and Forecasting
vi.	Work Experience (in years)	
	a. Teaching	4 Months
	b. Research	3Years 4 Months
	c. Industry	-
vii.	Courses taught at (Please Tick)	
	a. Under Graduate Level	Yes
	b. Post Graduate Level	Yes
viii.	No. of Projects Carried out	-
ix.	Research guidance (Number of Students)	
	a. Master (Completed/Ongoing)	On going
	b. Ph.D. (Completed/Ongoing)	-
x.	No. of Patents	
	a. Filed	01
	b. Granted	-
xi.	Technology Transfer	
xii.	No. of papers published in Journals/Conferences	08
	a. National	-
	b. International	08
xiii.	No. of Research Publications in Journals/Conferences	02
	a. National	-
	b. International	02
xiv.	No. of Books published with details (Name of the book, Publisher with ISBN, year of publication, etc.)	-