

Curriculum Vitae



Name : C.Vijayalakshmi

Nationality : Indian

Present Address : Dr.C.Vijayalakshmi, Associate Professor, Department of Statistics and Applied Mathematics, Central University of Tamil Nadu, Thiruvarur

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Academic Qualifications:

B. Sc., (Mathematics), Holy Cross College, Bharadidasan University, 1991

M. Sc., (Operations Research and Computer Applications), National Institute of Technology

(R.E.C) 1993, M. Phil., (Operations Research) 2006, M.B.A, Mother Teresa Women's University

Ph. D (Statistics), Manonmaniam Sundaranar University, Tirunelveli, 2008.

Title of the Ph. D Thesis:

“Stochastic Processes, Bulk Queueing models and its Applications”

(Thesis Supervisor: Prof. K.Senthamarai Kannan, MSU.)

Reviewer of Journal of Computational and Applied Mathematics, Int. J. of Business Information Systems. Guest Editor of International Journal of Computer Aided Engineering and Technology.

Professional Experience:

Teaching – 20 years and Industry – 2 years

Projects Completed : BRFST for Rs.30 lakhs, Seed fund for Rs.3 lakhs

Patent Published:

Method to normalize microscopic image feature to facilitate robust learning in clinical pathology on September 4, 2020

Awards and Honours:

- ❖ Best Professor of 2012 by ASDF by Pondicherry Chief Minister
- ❖ Best Professor of 2013 by VIT University.
- ❖ Best professor award -2014, by Lion's club international.
- ❖ Best Professor, Raman & Ramanujar Award,2017 by Ratnam group
- ❖ Best Researcher award at VIT in 2015 to 2019
- ❖ Received “Best Teacher Award 2004 & 2007,2010” at Sathyabama University, Chennai
- ❖ Received “Bharath Jyothi Award” in New Delhi-2005.

List of Publications:

S.No	Title of the paper	Name of the Journal	Name of the Publisher India/Abroad	Vol/ PP/ Issue/ Year	Impact Factor
1.	Implementation of Artificial neural Network with Hidden Markov Model for analyzing the genetic code	International Journal of Engineering and Applied Sciences	Medwell Journals	Vol 2(2), pp17-29,2007	IF 0.6 ISSN No:1816-949X
2.	An analysis of the Stochastic behaviour for shift conversion system code	European Journal of Industrial Engineering	Inderscience Publisher	Vol:1 No:4,449-461,2007	<u>ISSN (Print):</u> <u>1751-5254</u> <u>IF:</u> 0.7
3.	An asymptotic analysis and design of a queueing model for a call centre	International Journal of Business Data communication and Networking	IGI publishers, USA	No: 4(1), pp 1-13,2008	<u>ISSN:</u> 1548064X 15480631
4.	A Statistical and contextual clustering for analysis of functional Magnetic Resonance	Journal of Statistics and applications, Information &	Academic Publishers	Vol : 3, No:1-2, 95-110, 2008	ISSN 0973-4600

	Images Data	System Sciences - An International Scientific Journal			IF:0.821
5.	A Statistical and contextual clustering for analysis of functional Magnetic Resonance Images Data	Journal of Statistics and applications, Information & System Sciences - An International Scientific Journal	Academic Publishers	Vol : 3, No:1-2, 95-110, 2008	ISSN 0973-46 IF:0.821
6.	An Analysis of stochastic behaviour of radar signature by comparing Observable operator model and Hidden Markov Model	Journal of Statistics and applications, Information & System Sciences - An International Scientific Journal	Academic Publishers	Vol : 3, No:1-2, 33-56, 2008	ISSN 0973-4600 IF:0.821
7.	Implementation of Scheduling Algorithm for Optimization by Lagrangian Decomposition Model	International Journal of Operational Research (IJOR), ISSN (Online): 1745-7653 - ISSN (Print): 1745-7645	Inder science publishers, Switzerland, U.S.A.	Vol.14 ,NO.1,pp.70-93,2012	0.863
8	Optimization Model for Electricity Distribution System Control using Communication System by Lagrangian Relaxation Technique.	CiiT International Journal of Wireless Communication, Print: ISSN 0974 – 9756 & Online: ISSN 0974 – 9640	CIIT, Coimbatore, India.	Vol.3,No.3,p p.183-187,2011	0.572
9.	A probabilistic framework to analyze the Nature of Markov processes using propagators	Computational Sciences, International Journal of Mathematics, Computer Sciences and Information Technology[ISSN:	Serial Publications	Vol.3 No.2, pp. 203-212, 2010.	

		0975-5580]			
10.	Design of a Hidden Markov Model for the analysis of genomic changes in cancer	CiiT International Journal of Biometrics and Bioinformatics.	CIIT Publications	Vol: 3, PP 183-187,2011 ISSN 0974-9640	Impact Factor : 0.361
11	Design and analysis of optimal power flow for power system using lagrangian relaxation technique	Elixir online journal, ISSN 2229 -712X	Photonics, India.	Elixir Appl. Math. 38 (2011) 4430-4437.	
12	Implementation of Belief Propagation Iterative method on Markov chains by Designing Bayesian Networks	International Journal of Artificial Intelligent systems and Machine Learning.	CIIT Coimbatore India	Volume 3, No. 6, Issue June 2011,pp 353-358	0.763 ISSN 0974-9667
13	Machine Learning Techniques for SVM Classification and Regression Loss Function	International Journal of Artificial Intelligent Systems and Machine Learning	CIIT, Coimbatore	Vol 3, no 7, July2011 PP: 483-490	IF: 0.542 ISSN0974-9667
14	An Analysis of Continuous Time Markov Chains using Generator Matrices	International Journal of Computer Applications	Foundation of Computer Science, Newyork, USA (ISSN 0975–8887)	Volume 35 No.10, December 2011,pp 20-24	0.835
15	Application of Markovian in Point to Point Networks with Multiple Controllers Using Nash Equilibrium	CIIT International Journal of Networking and communication Engineering	Coimbatore Institute of Information Technology International Journals (CiiT)	Vol 3, No 8, June 2011 PP 516-520	IF: 0.569 ISSN 0974-9713
16	Optimization of Stochastic Performance Analysis on Multi class Queueing Network	<i>International Journal of Computer Sciences</i>	Serials Publication, New Delhi	Vol.5, No-1, Jan-June 2012, pp 39-	IF:0.45,ISSN 0974-3898

		<i>and Software Technology, Serial Publication,</i>		43	
17	A Method for Solving Quadratic Variable Selection Problems via Integer Optimization	International Journal of Advance Research and Technology	Andra Publishers	<i>IJART, Vol. 1 Issue 4, Dec 2011,144-159</i>	ISSN NO: 6602 3127
18	A Lagrangian Decomposition Model for Unit Commitment Problem	International Journal of Computer Applications	Foundation of Computer Science New York, U.S.A	(ISSN: 0975 – 8887),. Vol.43, No.12, pp. 21-25, 2012.	IF: 0.835
19	Implementation of a Probabilistic Model for the effective production management	International Journal on European journal of Scientific Research		[ISSN: ISSN 1450-216X], volume 85, No.3, September 2012, p.p 373-381 with	
20	Prediction of Colon Rectum Cancer Survivability using Artificial Neural Network	International Journal of Computer Engineering and Technology	IAEME/Chennai Tamilnadu,	Vol 3, Iss 1, June 2012, pp (161-166), 0976-6375.	
21	A Comparative Study in Predicting Colon Rectum Cancer using Auto Regressive moving Average And Artificial Neural Network	International Journal of Computer Application.	Foundation Of Computer Science, New York, USA	Volume 44, No 9, April 2012, Pp no (6291-6294), 0975-8887.	IF: 0.835
22	Maximum Wind Power Penetration Using LR Technique	Applied Mathematical Sciences, HIKARI Ltd	HIKARI Ltd	Vol. 7, 2013, no. 23, 1135 – 1141, ISSN :1312-885X	(print) ISSN 1314-7552 (online)

23	Implementation of supplier evaluation and ranking by improved TOPSIS	APPLIED MATHEMATICAL SCIENCES,ISSN/I SBN: ISSN 1312-885X (Print) ISSN 1314-7552 (Online)	HIKARI Ltd, Bulgaria	VOL NO: 7,PAGE NUMBER: 45-48, YEAR: 2013	IMPACT FACTOR: 0.392
24	Implementation of Fuzzy Multi Objective Linear Programming for Decision making and planning under uncertainty	Indian Journal of Computer science and Engineering	Engg Journal Publications	VOL NO: 4,PAGE NUMBER: 103-121,2013	ISSN/ISBN: 0976-5166(e), 2231-3850(p)
25	Analysis of Machine Learning Classifier Based on Linear-Quadratic- Logistic Discriminant (LQL) Applied on Head Injury Data set	International Journal Multidisciplinary Research	Jai Hind Education Society, Pune	Vol.2,issue 2(1),May2013,	2277 – 9302
26	Implementation of Fuzzy Multi Objective Linear Programming using weighted additive ranking technique for supplier evaluation and allocation.	Far East Journal of Mathematical sciences (FJMS)	Pushpa Publishing houseAllahabad, India	VOL NO: 78, pp: 29-41 2013 ISSN/ISBN: 0972-0871	Impact Factor: 0.692 SNIP INDEX: SCIMAGO SJR (2012) - 0.216
27	Multi Objective Fuzzy Linear Programming techniques for weighted additive model for supplier selection in supply chain management	International Journal of Applied Mathematics and Informatics	NORTH ATLANTIC UNIVERSITY UNION UK	VOL NO: 7,PP: 143-152,2013 ISSN/ISBN: 2074-1278	
28	An Analysis of an Mixed Integer Programming Model for Microarray Data Classification	Applied Mathematical Sciences	Hikari Publication, Ruse 7005, Bulgaria	Vol. 7, 2013, no. 40, pp: 2001 - 2005,	ISSN: 1312885X
29	Implementation of Privacy Preserving Multiparty Collaborative Mining Technique by using Integer	European Journal of Scientific Research	Euro Journal Publishing, Mahe, Seychelles	Volume 94, No 3, Jan 2013, Pp no(397-404),	ISSN 1450-216X, 1450-202X.

	Programming Model				
30	SVM Trade-off between maximize the margin and minimize the variables used for regression	International Journal of Pure and Applied Mathematics, SNIP and SJR: 0.254, H-Index:18, G-Index:27, cites/paper:2.21, cities/year: 184.08	Academic Publication SNIP and SJP 0.254	Vol 87, issue 6 October 2013, P.No.741-750	IF – 2.13, ISSN: 1311-8080(printed version) ISSN: 1314-3395 (on-line version)
31	Stochastic Routing Mechanism on Multiclass Switching Network Using Game Theory	Journal of Applied Mathematical Sciences.	HIKARI Publications,, HIKARI Ltd, Bulgaria	Vol. 7, 2013, no. 21, 1023 – 1032,	Impact Factor 0.369, [SCOPUS INDEX
32	Fuzzy multi-objective linear programming approach for production planning	International Journal of Engineering and Technology	Engg journal publication	ISSN/ISBN: 0975-4024 (online version), 2319-8613 (online version)	
33	Implementation of Fuzzy Multi Objective Linear Programming Technique Using Triangular Numbers for Supply Chain Management	Applied Mathematical Modeling- La.Pensee Journal	Elsevier (ISSN: 0031-4773) Vol. 75, Issue.10,		Impact Factor 0.063 [SCOPUS INDEX]
34	Mathematical Modeling Based on Neural Network with Fuzzy Logic.	International Journal of Advance Research in Computer Science and Software Engineering (IJARCSSE)	ISSN: 2277-128x, Vol 4, issue 3 March 2014, pp.928-933,	Advanced Research International Publication House, Janupur	Impact Factor: 2.080
35	Using Optimization methodologies to find the solution of support vector machine with maximum accuracy”	Pensee Journal	ISSN: 0031-4773], Vol 76,issue 4, pp.197-206, April/	Pensee Journal, publication on La Pensee Multidiscipli	2014Impact Factor: 0.063. [Annexure I , Scopus Index

				nary journal, Paris, France	
36	Implementation of Soft Computing Techinques in Neural Network”	International Journal of Applied Engineering Research (IJAER)	ISSN 0973-4562 Volume 9, Number 22 (2014) pp. 12225-12239.	Research India Publications, New Delhi	Impact Factor: 0.76
37	Implementation of SVM Discriminant model for Irregular shaped classes with best parameter C and γ .	Journal of Mechanical Engineering	December 2014	In Press	Scopus Index, Anna University Annexure II

38. Solution For Traveling Salesman Problem Using Fuzzy Multi - Objective Linear Programming, Journal of Applied Sciences Research, Volume: 11, Issue: 14, Month, Year: 09, 2015, Impact Factor: 0.243, Page Nos: 67-73, ISSN/ISBN Nos: ISSN: 1816157X, 1819544X, American-Eurasian Network for Scientific Information publisher, Authors: N.Anitha and C. Vijayalakshmi
39. Design of Lagrangian Decomposition Model for Energy Management Using SCADA System, Smart Innovation, Systems and Technologies, Springer International Publishing Springer, Switzerland 2016, Volume: 49, Issue: 1, Month, Year: 02, 2016, Indexed in: SCOPUS, Impact Factor: 0.168, Page Nos: 353-361, Publisher: Springer Verlag., ISSN: 21903018, 21903026, H Index: 5. Authors: R. subramani and Vijayalakshmi
40. Optimization of Multi-objective Transportation Problem Using Evolutionary Algorithms, Global Journal of Pure and Applied Mathematics, Volume: 12, Issue: 2, Month, Year: 04, 2016, Indexed in: SCOPUS, SNIP factor: 0.488, Page Nos: pp. 1387-1396, ISSN/ISBN Nos: ISSN 0973-1768, Authors: K. Bharathi and C. Vijayalakshmi
41. Implementation of Markovian Queueing Network Model with Multiple Closed Chains, Mathematics in computer science-Springer, Volume: 1, Issue: 1, Month, Year: 04, 2016, Indexed in: SCOPUS, Impact Factor: 0.466, Page Nos: 1-10, ISSN/ISBN Nos: 16618289, 16618270, Switzerland, <http://link.springer.com/search?sortOrder=newestFirst&facet-content-type=Article&facet-journal-id=11786,Math.Comput.Sci>. DOI 10.1007/s11786-016-0262-4. K. Sivaselvan and C. Vijayalakshmi
42. Design and Analysis of an Optimal Inventory Model for Perishable Goods with Fixed Life Time, Indian Journal of Science and Technology, Volume: 9, Issue: 25, Month, Year: 07, 2016, Indexed in: Scopus, Impact Factor: 5.02, Page Nos: 1 - <http://www.indjst.org/index.php/indjst/article/view/85023/71138>; Scimago ‘H’ Index : 18

IC Value : 5.02 Thomson Reuters "Web of Science SCOPUS" Authors: Umamaheswari.S , Chandrasekeran .E, Vijayalakshmi .C

43. Lagrangian decomposition model to minimise loss in transmission network, International Journal of Enterprise Network Management, DECISION SCIENCE, Inderscience Publishers, UK, Volume: 7, Issue: 2, Month, Year: 07, 2016, Indexed in: SCOPUS, Impact Factor: 0.087, Page Nos:152-160, ISSN/ISBN Nos: ISSN, 17481252, 17481260,
44. A Comprehensive Review of Closed Loop Supply Chain, Global Journal of Pure and Applied Mathematics, Volume: 12, Issue: 4, Indexed in: SCOPUS, Month, Year: 07, 2016, Impact Factor: 0.488, Page Nos:2785-2792, ISSN/ISBN Nos: ISSN 0973-1768, Authors: P.R. Thiripura Sundari,C.Vijayalakshmi
45. Design and analysis of the redundancy allocation problem using a greedy technique, IOSR Journal of Computer Engineering (IOSR-JCE), Volume: 18, Issue: 5, Month, Year: 09, 2016, Page Nos:11-19, Souradeep Nanda , Siddharth Sharma , Piyush Kundnani , Anand Sanker Deb , C. Vijayalakshmi
46. DESIGN AND ANALYSIS OF A NON LINEAR OPTIMIZATION INVENTORY MODEL FOR UNCERTAIN QUANTITY, ARPN Journal of Engineering and Applied Sciences, Volume: 10, Issue: 11, Month, Year: 06, 2015, SCOPUS, ISSN 1819-6608 ,pp 4882-4887,VOL:10,ISSUE 11,2015, Authors: Thiripura Sundari P. R. and VijayaLakshmi C
47. Design and Analysis of a Vacation Model for Two-Phase Queueing System with Gated Service, Elsevier,Science Direct,Procedia Computer Science 50 (2015), Volume: 50, Issue: 1, Month, Year: 05, 2015 ,pp301 – 306, Authors: K. Ramya, S. Palaniammal , C. Vijayalakshmi
48. Design and Analysis of Lagrangian Decomposition Model, Global Journal of Pure and Applied Mathematics, Volume: 11, Issue: 4, Month, Year: 07, 2015, ISSN 0973-1768 Volume 11, Number 4 (2015), pp. 1859-1871, Scopus indexed, Authors: Subramani R and Vijayalakshmi C
49. Fuzzy multi objective Mixed Integer Linerar Programming Techniques for supply chain management,International Journal of Pure and Applied Mathematics, Volume: 101, Issue: 5, Month, Year: 06, 2015,Scopus Indexed, Impact Factor: 0.635, 781-790 ISSN: 1311-8080 (printed version); ISSN: 1314-3395 (on-line version) url: <http://www.ijpam.eu> , Authors: C.Kavitha and C.Vijayalakshmi
50. Feed back control mechanism on Stochastic aggregated routing network,International Journal of Pure and Applied Mathematics, Volume: 101, Issue: 5, Month, Year: 06, 2015, Impact Factor: 0.635, pp.791-800 ISSN: 1311-8080 (printed version); ISSN: 1314-3395 (on-line version) url: <http://www.ijpam.eu> P A,Scopus Indexed, Authors: K.Sivaselvan,C.Vijayalakshmi
51. SVM approach for classification and regression with absolute value combination method for controlling complexity, International Journal of Pure and Applied Mathematics, Volume: 101, Issue: 5, Month, Year: 06, 2015, Scopus indexed, Impact Factor: 0.635, pp.

- 811-820 ISSN: 1311-8080 (printed version); ISSN: 1314-3395 (on-line version) url: <http://www.ijpam.eu> P A ijpam.eu Authors: M.Premalatha and C.Vijayalakshmi.
52. Analysis of an inventory model for optimum ordering policy and economic purchasing strategy, *International Journal of Pure and Applied Mathematics*, Volume: 101, Issue: 5, Month, Year: 07, 2015, Scopus Indexed, Impact Factor: 0.635, pp: 739-752 ISSN: 1311-8080 (printed version); ISSN: 1314-3395 (on-line version) url: <http://www.ijpam.eu> P A ijpam.eu, Authors: S. Umamaheswari , E. Chandrasekeran , C. Vijayalakshmi
 53. Implementation of an Optimization Model for the Establishment of New Substations, *Middle-East Journal of Scientific Research*, Scopus Indexed, Volume: 23, Issue: 3, Month, Year: 05, 2015 , pp: 514-518, Authors: S. Maheswari, R. Santhoshkumar and C. Vijayalakshmi
 54. Implementation of Markovian queueing network model with multiple closed chains, *IWGA-2015, University of Malaysia*, Volume: 1, Issue: 1, IWGA-School of computer Sciences, University of Malaysia, Penang Authors: K.Sivaselvan, C.Vijayalakshmi
 55. Implementation of Lagrangian Decomposition Model for Energy Efficiency using SCADA System, *Journal of Applied Sciences Research*, H index 12, 2015, September-2015; 11(14): pages 74-79, IF:0.243, ISSN/ISBN Nos: ISSN: 1816157X, 1819544X , Authors: R. Subramani and C. Vijayalakshmi
 56. Design of Flow Control Mechanism Model for Markovian Multi Stage Queueing Network, *World Engineering & Applied Sciences Journal*, *World Engineering & Applied Sciences Journal* 6 (3), pp:191-197, 2015 ISSN 2079-2204 © IDOSI Publications, 2015 DOI: 10.5829/idosi.weasj.2015.6.3.22225, Authors: K.Sivaselvan and C.vijayalakshmi
 57. Travelling Salesman problem model with fuzzy multi objective Linear programming, *Global Journal of Pure and Applied Mathematics*. ISSN 0973-1768, Volume 12, Number 3 (oct-2016), pp:538-543, Scopus Indexed, SNIP factor:0.488, Authors, N.Anita and C.Vijayalakshmi
 58. Multistage Batch Arrival Queue with Different Server Vacations having Restricted Admissibility and Reneging, *Global Journal of Pure and Applied Mathematics*. ISSN 0973-1768, Volume 12, Number 3 (oct-2016), pp:445-449, Scopus Indexed, SNIP factor:0.488
 59. A review on advanced optimization techniques, *ARPJ Journal of Engineering and Applied Sciences*, Volume: 11, Issue: 19, SCOPUS, Page Nos:11675-11683, ISSN 1819-6608, Scopus Indexed VOL. 11, NO. 19, October 2016, Authors: Subramani R. and Vijayalakshmi C.
 60. Implementation of an optimization model for pump scheduling, *International Journal of Pure and Applied Mathematics*, Volume 109 ,No. 5 2016, Scopus Indexed, IF:3.83, pp:41-49 ISSN: 1311-8080 (printed version); ISSN: 1314-3395 (on-line version) url: <http://www.ijpam.eu> doi: 10.12732/ijpam.v109i5.5 P A ijpam.eu , Authors: R.Subramani and C.Vijayalakshmi
 61. Design and analysis of the redundancy allocation problem using a greedy technique, *IOSR Journal of Computer Engineering (IOSR-JCE)*, *OSR Journal of Computer*

Engineering (IOSR-JCE) e-ISSN: 2278-0661,p-ISSN: 2278-8727, Volume 18, Issue 5, Ver. I (Sept - Oct. 2016), PP 11-19 www.iosrjournals.org, Authors: Souradeep Nanda , Siddharth Sharma , Piyush Kundnani , Anand Sanker Deb , C. Vijayalakshmi

62. Multistage Batch Arrival Queue with Different Server Vacations having Restricted Admissibility and Reneging, Global Journal of Pure and Applied Mathematics. ISSN 0973-1768,Volume 12, Number 3 (oct-2016),pp:445-449,Scopus Indexed, SNIP factor:0.48, Yuvarani.C and Vijayalakshmi.c ,
63. Framework for the Design and Analysis of an Evolutionary Algorithm for Multi Travelling Salesman Problem, Indian Journal of science and Technology, Scopus Indexed, Vol 9(48), DOI: 10.17485/ijst/2016/v9i48/104352, December 2016,PP: 1-4, K.Bharathi and C.Vijayalakshmi
64. M[X]/G/1 Multistage queue with reneging during vacation and breakdown periods and second optional repair, International Journal of Pure and Applied Mathematics, Volume: 109, Issue: 7, Page Nos:59-66,2016, ISSN: 1311-8080 (printed version); ISSN: 1314-3395,C.Yuvarani and C.Vijayalakshmi
65. Design of an Intuitionistic fuzzy model Configuration for Traveling salesman problem, International Journal of Pure and Applied Mathematics, Volume: 109, Issue: 8,IF:0.864, 2016, ISSN/ISBN Nos: ISSN: 1311-8080 (printed version); ISSN: 1314-3395,PP: 17-24 , Anitha.N and Vijayalakshmi.C
66. Inventory management in reverse supply chain with remanufacturing of multiple products using multiple collection sites, International Journal of Pure and Applied Mathematics, Scopus Indexed, Volume: 109, Issue: 7, Impact Factor: 0.864,2016, Page Nos:135-142, Impact Factor: 0.864, P.R.Thirupura Sundari and C.Vijayalakshmi
67. Stochastic Time Series Analysis for Wheat (*Triticum aestivum*) Production in India, International Journal of Pure and Applied Mathematics,Scopus,2017, Volume: 113, Issue: 7, Page Nos:111- 119,IF:0.864, T. Jai Sankar, P. Pushpa and C. Vijayalakshmi
68. Implementation of ARIMA Model for Ghee Production in Tamilnadu, International Journal of Pure and Applied Mathematics, Scopus 2017,Volume: 113, Issue: 6, Page Nos: 56-64,2017, T. Jai Sankar and C. Vijayalakshmi
69. Multi-Objective Transportation Problem Using Add On Algorithm, International Journal of Pure and Applied Mathematics,Scopis 2017, Volume 109 No. 10 2016, 99-107, K.Bharathi and C.Vijayalakshmi
70. Organization and Implementation of Fuzzy Intuitionistic Algorithm for Traveling Salesman Problem, International Journal of Pure and Applied Mathematics, Scopus 2017, Volume 116 No. 12 2017, 229-237, ISSN: 1311-8080, Authors: N.Anitha and C,Vijayalakshmi.
71. Design of Volatility Model in Nifty 50 Index Using Thin Plate Spline Regression, Indonesian Journal of Electrical Engineering and Computer Science, Scopus 2017, Vol. 7, No. 2, August 2017, pp. 426 – 433, Poornima , Vijayalakshmi , Somasundaram.
72. Design and Analysis of Lagrangian Algorithm for Power Flow System using Renewable Energy Resources, Indonesian Journal of Electrical Engineering and Computer Science, Scopus 2017, Vol. 7, No. 2, August 2017, pp. 348 ~ 355, R Subramani and C Vijayalakshmi
73. A design framework for the implementatin of a bulk queueing model in a fozil fuel power plant, ICMCE2017 conference, Volume: 1, Issue: 1,pp. 1-8,C.Vijayalakshmi.

74. Implementation of Fuzzy Linear Programming technique for TSP, Journal of Advanced Research in Dynamical and Control Systems, Scopus 2017, Volume: 9, Issue: 14, pp. 789-797. N. Anitha and C. Vijayalakshmi
75. Design of Forecasting Model for Export of Liquid Bulk, International Journal of Pure and Applied Mathematics, Scopus 2017, Volume: 109, Issue: 9 pp. 311-319, ISSN 1311-8080 IF 0.845. T. Jai Sankar, C. Vijayalakshmi, Poovaraghavan
76. Implementation of Stochastic Model for Fish Production Forecasting, International Journal of Pure and Applied Mathematics, Scopus 2017, Volume 109 No. 9 2016, 323–329, ISSN: 1311-8080, IF 0.845, T. Jai Sankar, C. Vijayalakshmi
77. Design of a multi criteria decision model-fuzzy analytical hierarchy approach, International Journal of Engineering & Technology, scopus 2018 Vol 7 Issue (1.1) pp. 116-120, P. Sona, T. Johnson, C. Vijayalakshmi
78. Design of an Optimization Routing Model for Real Time Emergency Medical Service System in Chennai Using Fuzzy Techniques, Springer International Publishing, Computational Vision and Bio Inspired Computing, SCOPUS 2018, Volume: 28, Issue: 1, pp. 266-279, ISSN 978-3-319, Anitha. N, C. Vijayalakshmi
79. Implementation of Fuzzy Logic Control for Flood Analysis, International Journal of Control Theory and Applications, scopus 2017, Volume: 10, Issue: 30, pp. 295-307, ISSN 0974-5572 S. Gayathridevi, T. Johnson and C. Vijayalakshmi
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81. Analysis of Fuzzy Logic based control model for water treatment plant in Indian scenario, ARPN Journal of Engineering and Applied Sciences, scopus 2018, Volume: 13, Issue: 5, pp. 1780-1785, ISSN 1819-6608, K. Kaleeswari 1, T. Johnson 1 and C. Vijayalakshmi
82. Influencing factors on Water Treatment Plant Performance Analysis using Fuzzy Logic Techniques, International Journal of Pure and Applied Mathematics, Scopus 2018, Volume 119 No. 11, 2018, 29-37 ISSN: 1311-8080, IF 0.635, K. Kaleeswari, Johnson, C. vijayalakshmi
83. An Analysis of the Stochastic Behaviour for the Reliability and Cost Benefit Analysis in a Petrochemical Industry, International Journal of Pure and Applied Mathematics, scopus 2018, Volume 119, No. 11, 2018, 383-391 ISSN: 1311-8080, IF 0.635, C. Vijayalakshmi and R. Subramani
84. Analyzing Factors in Production Management Using Fuzzy Cognitive Mapping, International Journal of Pure and Applied Mathematics, Scopus 2018, Volume 119, No. 11 2018, 517-524, ISSN: 1311-8080, IF 0.635, P. Sona, T. Johnson and C. Vijayalakshmi
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86. Multistage M[X]/GK/1 Queue with Unreliable Server having Multiple Vacation and Reneging, Jour of Adv Research in Dynamical & Control Systems, Scopus 2018, Vol. 5, 01-Special Issue, 2018, ISSN, 1943-023X, Yuvarani. C and Vijayalakshmi. C
87. Facility Location Selection Using FAHP, Jour of Adv Research in Dynamical & Control Systems, Scopus 2018, Vol. 5 (URL), 01-Special Issue, 2018, ISSN, 1943-023X, P. Sona, T. Johnson, C. Vijayalakshmi

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89. Design of an Inventory model-Fuzzy Logic Controller approach, International Journal of Pure and Applied Mathematics, SCOPUS 2018, Volume 119 No. 9 ,2018, 41-51 ISSN: 1311-8080,IF 0.635, P. Sona , T. Johnson , C. Vijayalakshmi
90. Augmented Lagrangian Algorithm for Hydrothermal Scheduling, EAI Endorsed Transactions on Energy Web and Information Technologies, SCOPUS 2018, Volume: 5, Issue: 18, PP.1-7, ISSN 2032-944X, R.Subramani and C.vijayalakshmi
91. Implementation of Fuzzy Intuitionistic Algorithm for Traveling Salesman Problem, EAI Endorsed Transactions on Energy Web and Information Technologies,scopus 2018, ISSN 2032-944X, N.Anitha and C,Vijayalakshmi
92. Model to estimate the salt and pepper noise density level on gray-scale digital image, EAI Endorsed Transactions on Energy Web and Information Technologies, scopus 2018, Volume: 5, Issue: 18,, ISSN 2032-944X, Rajesh Kanna B , Mohd Shafi Bhat , Vijayalakshmi C , Alex Noel Joseph Raj
93. Analysis of multistage $M(x)/g(k)/1$ queue with different server's interruptions and its application in energy consumption, international Journal of Ambient Energy, Scopus 2018, Volume: 1, Issue: 1, pp.1-8. C.Yuvarani and Vijayalakshmi.C
94. Evolutionary Analysis for Optimization Model with the Design of Job Shop Scheduling, Journal of Advanced Research in Dynamical and Control Systems, scopus, 2018, Vol. 10, 03-Special Issue, 2018, pp.1119-1123, K.Bharathi and C.Vijayalakshmi
95. Design and Analysis of Clinical Trials using Statistical Techniques- A Review, International Journal of Pharmaceutical Research, Scopus,IF: 1.55,10(3),PP:541-546, ISSN/ISBN Nos: 0975-2366,P.Rama Thulasi and C.Vijayalakshmi
96. Design of Stochastic Models for Human Gestation Period in Genetics-A Review, International Journal of Pharmaceutical Research, Scopus,IF: 1.55 Scopus,10(2),IF1.55, pp:537-540, ISSN/ISBN Nos: 0975-2366, K.Mancy and C.Vijayalakshmi
97. What do consumers think about recycling human urine as fertiliser? Perceptions and attitudes of a university community in South India, Water Research, Science Direct, Elsevier , Scopus, **Impact factor 7.621**, <https://doi.org/10.1016/j.watres.2018.07.006>, Water Research 143 (2018) 527-538, ISSN/ISBN Nos: ISSN: 0043-1354, Prithvi Simha a, Cecilia Lalander,C. Vijayalakshmi c
98. Implementation of optimal scheduling model for power flow system , Int. J. Computer Aided Engineering and Technology, Vol. 11, No. 2, 2019,Scopus Indexed, R.Subramani and C.Vijayalakshmi
99. Design and analysis for the removal of active pharmaceutical residues from synthetic wastewater stream, Environmental Science and Pollution Research <https://doi.org/10.1007/s11356-019-05070-9>,Scopus Indexed, **Impact factor: 2.8**,2019
100. Implementation of a Markov Model for the analysis of Parkinson Disease , Springer AISC Series (Advances in Intelligent Systems and Computing),.2019, The AISC Series has ISSN Number — 2194-5357, K.M.Mancy and C.Vijayalakshmi.
101. SVM approach for non-parametric method in classification and regression learning process on feature selection with ϵ -insensitive region, Malaya Journal of

- Matematik, Vol. S, No. 1, 276-279, 2019,<https://doi.org/10.26637/MJM0S01/0051>,pp-276-279 Premalatha . M and Vijayalakshmi.C
102. Design and Analysis of a Stochastic Model for Gestation Estimation of Postpartum Amenorrhoea, Jour of Adv Research in Dynamical & Control Systems, Vol. 11, 07-Special Issue, 2019,scopus Indexed,pp1088-1091,K.M.Mancy and C.Vijayalakshmi
 103. Optimization algorithm for decision theory with uncertainty,International Journal of Scientific and Technology Research, 9(3),pp 4706-4710,2020, Ezhilarasan . N and Vijayalakshmi.c
 104. Disaster Management using bio inspired algorithms,International Journal of scientific and Technology Research, 9(3),PP-5691-5694,2020,Aicevarya Devi.S and C.Vijayalakshmi
 105. Optimization of multi-objective problem using evolutionary algorithms, International Journal of Scientific and Technology Research, 9(4) pp-1726-1728,2020, Jose.S and C.Vijayalakshmi
 106. Design and Analysis of multi objective transportation optimization problem using evolutionary algorithm, International Journal of Advanced Science and Technology,29(5),pp.5697-5703,2020, Jose. S and C.Vijayalakshmi
 107. Design and Analysis of General bulk queueing models and its Applications, Journal of Combinatorial Mathematics and Combinatorial Computing, JCMCC, Canada, Scopus indexed, 112, pp193-212,2020, Impact factor-0.24,C.Vijayalakshmi and C.Yuvarani
 108. Bio inspired Optimization algorithms in disaster, Science Direct, Elsevier, Procedia Computer Science, Scopus, Impact Factor : 0.883, 172(2020),PP-176-180,S.Aicewarya Devi and C.Vijayalakshmi
 109. Design and Analysis of Machine Learning algorithms for the reduction of crime rates in India, Science Direct, Elsevier Procedia Computer Science, Scopus, Impact Factor : 0.883, 172(2020),PP-122-127,Shraddha.B and C.Vijayalakshmi
 110. Design and Analysis of Multi objective Optimization problem using Evolutionary algorithms,Science Direct, Elsevier Procedia Computer Science, Scopus, Impact Factor : 0.883, 172(2020),PP-896-899,Jose.S and C.Vijayalakshmi
 111. Design of Stochastic model for the distribution interval between fetal development stage and post partum amenorrhoea, Science Direct, Elsevier Procedia Computer Science, Scopus, Impact Factor : 0.883, 172(2020),PP-421-426,K.M.Mancy and C.Vijayalakshmi
 112. A new paradigm in Mission Planning with Unmanned Aerial Vehicles using Fuzzy Optimization Techniques, International Journal of Advanced Science and Technology ,Scopus Indexed, Vol. 29, No. 7, (2020), pp. 8108-8114, N.Anitha,, C.Vijayalakshmi,P.S.Premkumar

INTERNATIONAL CONFERENCE PUBLICATIONS

S.No	Title of the paper	Name of the International Conference With ISBN No(if any)	Name of the Publisher India/Abroad	Vol/ PP/ Issue/ Year
1.	Implementation of Hidden Markov Model for Gene products	IX Islamic Countries International conference on Statistical Sciences, ICCS_IX Statistics in the Contemporary World - Theories, Methods and Applications	Institute of Statistics, Malaysia.	Volume No:1, pp: 923-931, 2007
2.	General Bulk Queueing system for Limited Batches-Power Plant	6 th ICSA International Conference Institute of Mathematical Statistics.	National University of Singapore,.	Vol:1, pp . 86-97,2004
3	Stochastic delay model and traffic flow at Signalised Intersections	State Level Conference/Seminar on Latest Trends in Maths	Anna Adarsh college for women, Chennai, India	2002, Vol No: 1, 14-17.
4.	M/M(a,b)/2 Queueing Model with Servers single vacation-FertilizerPlant	XXIV Annual conference of Indian Society for Probability and statistics	Mahatma Gandhi University Publications, Kottayam.	Vol 1, pp.42-52.2004
5.	Design and Analysis of a Bulk Queueing Model-Practical Approach	International conference on recent development in Statistics and their applications (ICRDSA)	Sri Venkateswara University, Tirupathi, Andra Pradesh, India,	Vol.(1)- 1-17,2005
6.	An analysis on the stochastic Nature of the Evolution of Radar Signature by comparing OOM and HMM	Computational, Mathematical and Statistical Methods, XIV International conference of the Forum for	Indian Institute of Technology, Chennai	V:1, 95-2007

		Interdisciplinary Mathematics		
7.	A Statistical and Contextual clustering for the analysis of fMRI data	Computational, Mathematical and Statistical Methods, XIV International conference of the Forum for Interdisciplinary Mathematics	Indian Institute of Technology, Chennai	V:1, 91-94-2007
8.	A Probabilistic framework of the design and analysis of a bulk queueing model in Inventory control system	International Conference in Trendz in Information Sciences and Computing-TISC 2007, ISBN :978-1-4244-9009-7	Sathyabama University, Cognizant & IEEE Publishers	Vol.-I, 450-452.,2007
9.	A stochastic behaviour for the reliability and cost benefit analysis in a Petro chemical industry	International Conference in Trendz in Information Sciences and Computing-TISC 2007, ISBN :978-1-4244-9009-7	Sathyabama University, Cognizant & IEEE Publishers	Vol.-I, 453-458.,2007
10.	Design of a Hidden Markov Model for the Analysis of Genomic changes in Lung Cancer,	IX Biennial conference of International Biometric society on recent advances in the statistical methods for Bio sciences	ICMR,Delhi	Vol.1, 21,2008.
11.	An Analysis and Design of a Hidden Markov Model based on probabilistic Approach for Evaluating Risk Propagation	International Conference on Emerging Scenarios in Space Technology and Applications	Sathyabama University, Chennai.	(ESSTA2008), page no: 621-624
12.	A Probabilistic Framework for the Analysis of Optimal Clustering and Hidden Markov Model	Proceedings of the International Conference on Mathematics and Computer Science	Department of Mathematics, Loyola College, India	ICMCS 2008, Volume IV, pp . 29-39

13.	An Analysis and Implementation of Hidden Markov Model for Domain Experts	Proceedings of the International Conference on Mathematics and Computer Science	Department of Mathematics, Loyola College, India	ICMCS 2008, Volume IV, pp.40-51
14.	An Analysis and Design of Integer Programming Optimization Model for data mining	International conference ICOREM, Anna University,	AnnaUniv Publication, Trichy.	PP.2800-2816.,2009
15.	An Algorithmic approach for optimization by using Lagrangian Model	International conference ICOREM, Anna University,	AnnaUniversity Publication, Trichy.	PP.2459-2492,2009
16	Design and Analysis of Multi server queueing model networks for web based system	International conference ICOREM, Anna University,	Anna University Publication, Trichy.	2009, PP.1296-1313
17.	An Analysis and Design of a Hidden Markov Model for Production management.	ICMCM,ISBN 978-81-8487-042-8	Narosa Publisher,New Delhi	pp.10-20, Dec-2009
18	Design and Analysis of an Inventory Model for a Urea Bagging Industry using Optimization Techniques	International Conference On Operations and Management Sciences (ICOMS 11),	IMT Publication Division Nagpur.	Vol:1, Serial No:5 Full paper published
19.	An Optimal Design to Schedule the Locations by Lagrangian Relaxation Technique”,	International Conference On Operations and Management Sciences (ICOMS 11),	IMT Publication Division Nagpur.	Vol:1, Serial No:35 Full paper published
20.	Implementation of Belief networks on Markov Random fields.	International Conference On Operations and Management Sciences (ICOMS 11),	IMT Publication Division Nagpur.	Vol:1, Serial No:42, Full paper published
21.	Implementation of Fuzzy Multi Criteria Decision Technique to identify the best location for call centre	International conference TISC 2010,ISBN:978-1-4244-9009-7	IEEE and Cognizant, Sathyabama University	V-1(1);pp.21-27,2010

22.	An Implementation of Optimization Techniques of Artificial Neural Network and k-means Clustering using Integer Programming Problem	International Conference on Management studies 2011 at Nagpur	Institute of Management Studies Nagpur	January 2011
23	Implementation of an Algorithm for Electric Power Utility using Optimization Technique	Proceedings of the International Conference On Stochastic Modeling and Simulation(ICSMS 2011) ,Vel Tech University,ISBN: 978-81-8424-743-5	Allied Publishers, India.	pp.195-198, Dec 2011.
24	Application of Stochastic Model on Routing Technique in Multi class Queueing Network”, , SPRINGER-VERLAG BERLIN, HEIDELBERG, JAN-2012.	International Conference on Information Systems Design and Intelligent Application-(INDIA-2012)at Visakapattinam Chapter during January 2012	Springer – Verlag Berlin Heidelberg, U.S.A	p.p329-336ISBN:978-3-642-27442-8,Visakapattinam
25	An Optimal Design to Schedule the Hydro power Generation using Lagrangian Relaxation Method	Proceedings of the International Conference On Information Systems Design and Intelligent Applications 2012 (INDIA 2012)	Springer – Verlag Berlin Heidelberg, U.S.A	AISC 132, pp.723-730, Jan 2012. ISBN : 978-3-642-27442-8,Vizag
26	An analysis and design of a hidden Markov model for Production Management	International conference on Mathematical and Computational Models (ICMCM)	PSG college of Technology, Coimbatore, India	pp.10-20, Dec-2009 ISBN 978-81-8487-042-8
27	Stochastic Dynamics of Markov Chains using Circulation Theory	International Conference on Computer Applications	ASDF, Pondicherry,	p.p 165-169

		(ICCA-2012) (ISBN 978-81-920575-4-5)	India	
28	An Analysis on Profile Hidden Markov Models in Various biological fields	International Conference on Stochastic Modeling and Simulation.ISBN 978-81-8424-743-5	Veltech University, Chennai	p.p 229-232 December,2011
29	SVM algorithm for pattern recognition	International Conference On Information and Communication Technology (ICT-2011) ISBN:978-93-81693-09-4	IRNET ,BHUBANESWAR interscience Institute of Management & Technology,	SL NO 7 PP 35-40,2011
30	Analysis of Soft Computing in Neural Network	International conference on computer applications-2012,ISBN :978-81-920575-5-2::doi:10.73256/ISBN-0768 ACM#dber.imera.1073256	Techno Forum R&D Centre Pondicherry, India	Vol2/172-177
31	Algorithmic Approach For the Design Of Markovian Queueing Network with Multiple Closed Chains	International Conference on TRENDZ information Sciences and Computing.	Proceedings IEEE Xplore, Sathyabama University-INDIA	TISC 2010 PP 6 – 9 17Feb 2011 ISSN : 978-1-4244-9007-3
32	Implementation of a Stochastic game Model for a Flow Control Multi class Queueing Network	International Conference on Operations and Management Sciences-2011	Institute Of Management Technology-NAGPUR	Sr.No., 44
33	Application of Stochastic Model on Routing Technique in Multi class Queueing Network	International Conference on Information Systems	Proceedings of the International	Advances in Intelligent and Soft Computing,

		Design and Intelligent Applications 2012(INDIA-2012)	Conference on Inform. Systems, AISC 132, pp. 329–336.springerlink.com © Springer-Verlag Berlin Heidelberg 2012	2012, Volume 132/2012, 329-336, DOI: 10.1007/978-3-642-27443-5_37
34	Implementation of Optimal Clustering and Hidden Markov Models for Extractive Summarization	International Conference on Operations Research applications in Engineering and Management (ICOREM)	Anna University, Trichy India	pp.867-882,May2009
35	Implementation of Optimization Model for Wind Power Penetration	Proceedings of the 2012 5 th International Conference On Computer and Electrical Engineering (ICCEE 2012)	China	Hong Kong, China, Oct 2012
36	“Energy Conservation in Power System Using LR Technique’	Proceedings of the International Conference 2012 IEEE Fifth POWER INDIA Conference (PICONF 2012)	IEEE	IEEE ,Haryana,(NCR, Delhi region), Paper Id 1569645475, Dec 2012
37	Two stages of Regression and Classification Model in Neural Network.	International conference on Recent trends in computing,”ICRTC-2012	SRM university, NCR campus Delhi, during October 2012	ISBN: 978-93-81583-67-8,Pp.no:180-185
38	Stochastic Segregation of Steering Scheduling Performance in Multi Server Queueing	International Conference on Computer Applications-2012	Proceedings of the International Conference on Computer	Volume 1 Techno Forum Group India

	Network	(ICCA 2012)	Applications-2012	
39	An Implementation of Mixed Integer Programming model for Gene Selection in Cancer Classification using Microarray data	Fourth International Conference on Software Technology And Engineering ICSTE 212	Phuket, Thailand, Academic Conference Society Phuket, Thailand, 2012	PP NO: 143-148, ISSN 978-0-7918-6015-1
40	Implementation of Multi Objective Fuzzy Integer Programming Technique by Using Supply Chain Management	First International Conference, IRAM 2012, Monash University	Kuala Lumpur, Malaysia, Monash University, PP:412-425	Print ISBN 978-3-642-35196-9 Online ISBN:978-3-642-35197-6
41	Primal Dual Solution Through Neural Network	International conference on Mathematical Modeling and Applied Soft Computing "MMASC-2012" during July 2012,	CIT, Coimbatore	ISBN:978-81-923752-2-9, pp.no: 571-581
42	A Comparison on Soft-Error Correcting Codes of Memory Cells in a Markov Random Field	International Conference on Cloud Computing and eGovernance 2012	Bangkok, Thailand,	volume 1, July, 2012, Page no 59-64.
43	Analysis of Machine Learning Classifier Based on Linear-Quadratic- Logistic Discriminant (LQL) Applied on Head Injury Data set	International Research conference on Business Management Engineering and Technology Science ,BMETS-2013	Bangkok, Thailand	Page no:1-6 Vol.2, issue 2(1), May 2013 ISSN :2277 – 9302
44	Stochastic Decomposition on Multi-server Crash in Sequential Revamp Scheme	International Conference on Pattern Recognition, Informatics and Mobile Engineering (PRIME-2013), Periyar University-Salem, India	Published in <i>IEEE XPLORE</i>	p.p 68-71, , ISBN -978-1-4673-5843-9, 2013. [<u>SCOPUS INDEX</u>]

45	Stochastic Rendezvous Analysis on Multi Server Markovian Queueing Network	2nd Inter. Conf., on Computer Engineering and Information Technology(ICCEIT'13) & 2nd Inter. Multi-Conf., on Trends in Engineering and Technology (IMTET'2013)	International Scientific Academy of Engineering & Technology, at Dubai, UAE, March-2013	p.p 101-104, ISBN 978-93-82242-24-6, 2013. IEEE
46	Feed Back Control Mechanism on Stochastic Aggregated Routing Network	Inter. Conf., on Mathematical Computer Engineering (ICMCE 2013)	VIT University, Chennai	p.p XX-XX, ISBN:978-93-82338-68-0, 2013
47	SVM Approach for Classification and Regression with Absolute value Combination Method for Controlling Complexity	Inter. Conf., on Mathematical Computer Engineering (ICMCE 2013)	VIT University, Chennai	p.p XX-XX, ISBN:978-93-82338-68-0, 2013

NATIONAL CONFERENCE PUBLICATIONS

S.No	Title of the paper	Name of the National Conference With ISBN No(if any)	Name of the Publisher India/Abroad	Vol/ PP/ Issue/ Year
1	An analysis of design of a queueing model for transmission system	Proceedings of the NCRAC	SKCE, Coimbatore	pp-452-458, 2007
2	Stochastic Process Queueing Model in designing a call center with impatient customers-Part-II	Second National conference on Mathematical and Computational Models	PSG college of Technology, Coimbatore.	NCMCM 2003
3	A bulk queue G/M/1 in Inventory control	UGC National conference on Recent trends in Computational Mathematics, NCRTC M	Narosa Publishing House, New Delhi.	Pp.no 239-249., 2004
4	General Bulk queueing system for limited Batches	National Conference on Electronics and Information	Sathyabama University	Vol.1, pp.86-94, 2006

		Technology with Industrial applications		
5	Design and Analysis of a Fuzzy Multi –Criteria Model under Uncertainty	Proceedings of the National Conference on Applied Mathematics (NCAM 2010), ISBN: 978-81-8424-570-7	Allied Publishers, New Delhi, India,	V-1, , Page No 81-88,2010
6	Propagators of Markov Processes	National Conference at Abdur Rehman University, Chennai (NCAM) ISBN 978-81-8424-570-7	Allied Publishers, New Delhi, India,	page no: 171-175 (2010)
7	Design and Analysis of an Optimization Model by using Scheduling Algorithm for Electric Power Cycles	National Conference at Abdur Rehman University, Chennai (NCAM) ISBN 978-81-8424-570-7	Allied Publishers, New Delhi, India,	page no: 160-163 (2010)
8	Analysis of Stochastic Differential equations using Propagators	Proceedings of the National conference at Manonmaniam Sundaranar University Tirunelveli, ISBN 978-81-908352-8-2	MSU Publications	page no : 43-47,2009
9	A Probabilistic-Graphical approach for Error correction in Nanoscale Memory cell	National Conference on Emerging Trends in VLSI, Embedded And Nano Technologies (NCEVENT2011)	Sathyabama University, Chennai, India	pp. 173-179 2011
10	An Analysis of Reliability of Defect-Tolerant in Nano Architectures using Markov Chains	National Conference on Signal Processing, Communication and VLSI Design(NCSCV'11)	Anna University, Coimbatore India	pp. 1-5 2011
11	Optimization Techniques in Decision Making and the Potentials of Mathematical in Operations Research	National Conference on Application of Basic Sciences in Engineering	S.A Engineering College, Chennai, India	PP: 116-133 March 2011

		“NCABSE 2011”		
12	Machine Learning Classification Methods with Comparison Performance of Pattern Recognition	National Conference on Emerging Trends in Information Technology and Communication Systems -NCET 2011	Velammal Engineering College, Chennai	PP;148-157 ISBN: 978-81-920490-3-8 March 2011
13	Comparative Study of Statistical Pattern Recognition and Neural Network	National Conference on Signal Processing Communications and VLSI Design,NCSCV	Anna University of Technology, Coimbatore, India	SP-110, P.No: 803 – 809,May 2011
14	Fuzzy control in embedded system	National Conference on "Innovations in Computing Methodologies”	Bharathiyar University Coimbatore, India	2012
15	Design and analysis of Fuzzy Vikor Integrated Integer program for project selection	National conference on Recent trends in statistics and computer applications	Manonmaniam sundaranar university, Tirunelveli,India	ISBN-978-93-81-402-12-2 Pg.No:293-298
16	Implementation of Scheduling Algorithm for Multi-Layered Queueing Network Model	National Conference on Applied Mathematics	Allied Publishers	NCAM-2010 PP 176-182, 2010
17	Synchronization Mechanism of Stochastic Modeling on Multiclass Queueing Network	National Conference on Recent Trends in Statistics and Computer Applications	Publication Of Manonmaniam Sundaranar University	RTSCAPP 53-58,ISSN : 978-93-81402-12-2
18	Optimizing Reactive Power Distribution using LR Technique	Proceedings of the National Conference on Mathematical Techniques and its Applications(NCMTA2012),ISBN: 978-81-8424-750-	Allied Publishers, India	pp.157-165, Feb 2012.

		3,SRM University		
19	An Implementation of Integer Programming Model in Project Selection using Artificial Neural Network	Recent Trends in Statistics and Computer Applications	Bharathyar University Publication	2010
20	Mathematical Modeling Based on Neural Network with Fuzzy Logic	Second National conference on Advances in Differential Equations and Applications (NCADEA – 2012)	Periyar University, Salem, March	2012
21	Mixed Integer Evolutionary Optimization of ANN in Prediction of Colon Rectum Cancer	Recent Trends in Statistics and Computer Applications ISBN No:978-93-81402-12-2	Manonmaniam Sundaranar University	Pp:319 to 325/2011
22	Machine Learning Algorithm in Computational Intelligence	National conference on Mathematical and Computational Sciences “MACS-2012”	Adikavi Nannaya University, Rajahmundry (A.P), July 2012	ISBN: 978-81-923777-3-5 Pp.no:128-134
23	Numerical Analysis of Classifier Based on Various Methods of Clustering in Machine Learning	National conference on Recent trends in Mathematical Computing with (MATLAB session) NCRPMC-2013”	VIT university, Chennai	P.No. 206-213, ISBN.No 978-93-82338-68-0, Bonfring publisher, Coimbatore.
24	Flow Control Mechanism on Markovian Multistage	Recent Trends in Mathematical Computing	VIT University, Chennai, August-2013	p.p380-385, ISBN:978-93-82338-68-0,

	Queueing Network	(NCRTMC'13)		2013.
25	Implementation of Machine Learning techniques for the analysis of Transmission Dynamics of Covid 19	INTERNATIONAL VIRTUAL CONFERENCE ON "AI AND ML APPLICATIONS IN SMART BUILDINGS" (AMSB2020) 23rd and 24th JULY 2020	VIT,Chennai	23/7/2020

PARTICULARS ABOUT THE BOOKS / MONOGRAPHS PUBLISHED

Sl.No	Title of the Book/Monograph	Name of the Publisher	Edition /Year	Name of the Authors
1.	Probability and Random Process	Meenakshi Publications,Chennai	2003, Edition 1	A.Singaravelu and C.Vijayalakshmi
2.	Probability and Statistics	Meenakshi Publications,Chennai	2003, Edition 1	A.Singaravelu and C.Vijayalakshmi
3.	Probability and Queueing Theory	Meenakshi Publications,Chennai	2003, Edition 1	A.Singaravelu and C.Vijayalakshmi
4	Engineering Mathematics_I & II	Yesdee Publishers	2018, 2019	C.Vijayalakshmi,K.Sivaselvan ,R.Subramani

List of Ph.D Students guided:

S.NO	Name of the scholar & University	Title of the Thesis	Year Awarded
1	G.Padma-SU	Marko Random Fields and their application	2013
2	S.Shenbaga Ezhil-SU	Integer Optimization techniques in Data Mining and its applications	2013
3	C.Kavitha-SU	Optimization techniques for uncertainty models based on Fuzzy Programming	2014
4	K.Sivaselvan-SU	Stochastic models for scheduling multiclass Queueing Networks and their applications	2014
5	S.Anantha Lakshmi-MSU	Optimization Models and their applications	2014
6	S.Sivagama Sundari-MSU	Simulation Tehcniques for Interactive applciations	2014
7.	G.Suresh-MSU	Stochastic Modeling in Bio Informatics	2015
8	M.Premalatha-SU	Machine Learning Algorithms and its applications	2015
9	R.Kokila-MSU	Fuzzy logic and their applications	2015
10	G.T.Shakila devi-MSU	General bulk Queueing Models and its applciations	2016
11	R.Subramani-VIT	Implementation of Lagrangian Decomposition Algorithm to Dynamic Optimization models and its applications	2017
12	Thiripura Sundari P R-VIT	Supply chain analysis and Inventory optimization	2017
13	K.Bharathi-VIT	Evolutionary Algorithms in Multi Objective Optimziation	2018
14	Anitha N-VIT	Fuzzy Optimization models for multiple travelling salesman problems	2019
15	C.Yuvarani-VIT	M[X]/G/1 Queueing system with different types of server Interruptions	2019

UG/PG-Industrial projects Guidance at VIT : 4

1. Behavioral study of fish in an Aquarium setup- Rishabh Bhaskararan,Swapnil Sangal and Pranav Sancheti,B.Tech CSE-2018
2. Secure Auditing and De-duplicating data in cloud-Supraja.K-SCSE-2016
3. Group key agreement with local connectivity.L-SCSE-2016
4. Deleting secret data with public verifiability - Niveditha.V-SCSE-2016
5. M.Tech Big data and Embedded system-Research based learning Project - 2013 to 2019

Knowledge of Software: R,MATLAB, SAS, SPSS

Conference/Workshop/Seminar Participation

- Faculty Development Programme,Basic Pedagogy & Soft Skills organised by TISEL,Ernakulam during 27-28 June 2012.
- Faculty Orientation programme at VIT during 4-20 June 2012.
- One day workshop on Advanced Computations in Mathematics at VIT on 8th February 2013
- Chairperson in International Conference on Mathematical Computer Engineering (ICMCE-2013),VIT,during November 29-30,2013.
- Two day National workshop on Advanced Optimization with Hands on session using MATLAB,organised by VIT,Vellore, during 22-23 March,2013
- Chairperson for International Workshop on Parallel computing,VIT on 11th December 2014.
- Linux Orientation programme organised by Open Source Software group,VIT on 15th December 2014.
- Two day National workshop on Advanced Optimization with Hands on session using MATLAB,organised by VIT,Vellore, during 22-23 March,2013
- Presented paper in ICMCE-2016,VIT,titled Finite State Markov Chain analysis for Parkinson's disease, during 16-17 December,2016.
- One day training programme on "Human rights for women", organised by VITBS & NHRC-New Delhi on 1st September 2017.
- Presented paper in ISBCC-17 at VIT, titled Model to estimate the salt and pepper noise density level on grey scale digital images during 9-10 March 2017.
- Presented a paper in ICMCE-2017,VIT titled A design framework for the implementation of Bulk queueing model in a fossil fuel power plant, during 3-4 November 2017.
- Chairperson in ICMCE-2017,VIT, during 3-4 November 2017.
- DST sponsored National Workshop on Data Science Research organised by SCSE,VIT during Nov 30- Dec 2, 2016
- Faculty Development Programme on Project Based Learning(PBL),organised by ASC,VIT on April 4, 2016

- Faculty Development Programme on Moodle for Academics, organized by ASC, VIT on January 25, 2016
- Faculty Development Programme on Smart board training -V2-CybertnetX, organized by ASC, VIT on October 31, 2016
- Faculty Development Programme on Bench to Bedside research, How to get there?, organized by ASC, VIT on October 5, 2016
- Faculty Development Programme on Proctor roles and responsibilities, organized by ASC, VIT on August 10, 2016.
- Year 2019 - FDP-Flipped classroom 28th January, Latex for Engineer 30th January, Graph theory and network 31st January, Effective PBL methods 29th Jan, 3D and ceramic printing 31st Jan, Mental wellness at workplace 28th Jan, Gamified teaching 30th Jan, Deep learning techniques 29th Jan, Hots for you 3rd July, Image processing and Machine Learning techniques 3rd July, Conceptual account of signal processing 3rd June-2019 organized by ASC, VIT, Chennai.
- 2017-FDP-Latex for researchers 13th April, Power of punctuation 23rd August, Tips for happiness at work 18th January organized by ASC, VIT, Chennai.
- Faculty development workshop on Machine Learning organized by Career Launch School during 16-24 April 2019
- Recent Advancement of Fuzzy Theory, organized by VISTAS, 9th June 2020
- Webinar titled “Machine Learning” on June 13, 2020, organized by Panimalar Engineering college, Chennai
- Webinar titled Essential Mathematics for Engineering Projects and Research-An insight into Methodologies, June 12, 2020 organised by SASTRA University, Thanjavur
- Webinar “ Stochastic Models for call centre” organised by Sai Ram Engineering College, Chennai on 31-7-2020
- Patent Protection for Innovation driven Educational Institutions, Organized by Frontiers Legal, August 2020
- Kerala Mathematical Association & Mar Thoma College Thiruvalla, Three day Online National Lecture Series on Graph Theory and its Applications, August 19-21, 2020.
- Webinar on Modelling the spread of COVID 19, organized by St. Joseph College of Engineering, 12/08/2020
- International Webinar on Dynamical Systems and its applications, August 17-21, 2020, organized by Bharathiyar University, Coimbatore.

Academic Visits Abroad

S.NO	EVENT	Month /DATE	COUNTRY
1	6 th ICSA International Conference Institute of Mathematical Statistics. Presented paper entitled, General Bulk Queueing system for Limited Batches- Power Plant	2004	National University of Singapore
2	IX Islamic Countries International conference on Statistical Sciences, ICCS_IX Statistics in the Contemporary World - Theories, Methods and Applications, presented paper titled Implementation of Hidden Markov Model for Gene products	2007	Institute of Statistics, Malaysia.
3	Third Kuwait conference on e services and e systems, Kuwait University, Presented a paper entitled “Design and analysis of a vacation model for two phase queueing system with gated service”	2012	Kuwait University, Kuwait
4	First workshop on Graph theory, Combinatorics and its applications, Department of Mathematical Sciences, UAEU, presented paper entitled “Implementation of Machine Learning algorithm for crime data”	2019	United Emirates Arab University, Al Ain, UAE

Invited Talks/Special Lectures/Resource person in workshops, conferences and Outreach programmes

- Spectral Density and its future scope, delivered at Valliammai College of Engineering organised by the Department of Mathematics on March 18, 2017.
- Resource person for M.Tech -Bridge course, Basic Probability and Statistics, organised by SCSE, VIT during 2-12 December 2013 & 2014.
- Organiser of MATHMIND, Master of Ceremony & Convenor of Design and Printing team-TechnoVIT-2017 to 2019, Vibrance 2015-2019 at VIT, Chennai
- Resource Person for Graph Theory and Applications, Permutations and Combinations, organized by St. Joseph College of Engineering during May 27 2016 to June 3rd 2016.

- Resource Person in Karunya Institute of Technology and Sciences, Mathematical Modeling, Optimization and Simulation, 27th November, 2017.
- Resource person in National Workshop on Applied Statistical Methods using R, organized by KCT, Coimbatore, December 22, 2017.
- Guest Lecture Applications of Laplace Transforms on March 21, 2017 organised by Loyola. cAM College of Engneering and Technology
- Resource Person for UGC Sponsored National Conference on Present Scenario in Statistical Research & Applications-2017, (NCPSSRA-2017), Title : Clinical trial designs and Biostatistics, organized by PSG College of Arts and Science during 10-11 February 2017
- Resource Person in National Seminar-Recent Trends in Mathematics and its applications, organized by Jepiaar Institute of Technology on August 1, 2017
- Refresher course in Mathematics organized by Bharadidasan University during July 3 to July 23, 2013.
- Resource Person in Workshop on Biomedical Image Processing organized by SCSE, VIT on 2nd March 2013.
- Resource person, Guest lecture on Multivariate analysis at Bharadidasan University, April 8, 2015.
- International Seminar on Mathematics and Statistics SKPAS, 24th July 2014
- One day National conference on Pure and Applied Mathematics, Advanced Optimization Techniques and its applications, Rathinam college of Arts and Science, Coimbatore, 4th September 2015.
- Two day National level seminar and workshop on Soft computing Techniques in Engineering and Technology organized by JEC, 11-12 August 2016.
- Eureka Workshop organized by SKPAS, Optimization Techniques-Real time applications, 13th October 2015.
- R Lab Coordinator – Statistics for Engineers-B.Tech and M.Tech
- Convenor –National Science day, 2013
- BOS member meeting organized by RCAS, CBE on 3rd April 2019.
- Invited talk on Quality Education organized by IQAC, VIT, Chennai on 1st April 2019.
- TechSAS-2019 organized by SAS, VIT, 26th April, 2019
- Optimization techniques and its applications, organized by Sri Krishna College of Arts and Science, CBE, 4th February 2019.
- Pedagogy of Mathematics Teaching organized by Dr.MGR Education and Research Institute, 14 Feb 2019.
- Convenor -Vibrance 2020 at VIT, Chennai
- Freshers Induction programme-Clubs and activities at VIT-2019
- National conference on Mathematics, Statistics and Applications, organized by VIGNAN University, AP during 18th - 19th July 2019

- Seminar cum Hands on Training on SPSS software,organized by Dr.MGR Research Institute, 11th March 2019.
- Self Awareness and Higher Goals,IIT Madras during 20-24 May 2019.
- *ISTE sponsored* Two day workshop on “Innovative Pedagogies for Quality Enhancement in Engineering Education” ,during 24 -25 Jan 2020
- International conference on recent trends in recent trends in Stochastic Modeling and its applications organized by MSU,9-11 Jan 2020.
- Hakeem college of Engineering, Research Methodology, May 23 2020
- Resource person at JIT - Research Methodology and Online tools during 1-2 June 2020.
- Invited talk for faculty and research scholars on Research Methodology, April 22-24 ,2020,organized by Sri Krishna college of Arts and Science,Coimbatore
- Invited talk on Optimization techniques in real time scenario on June 14,2020 Organised by Government college, Pallathur
- Resource person in Three day International Webinar Recent Trends in Applied Mathematics, titled Fuzzy Optimization models with real time applications, June 26,2020, organized by Patrician college of Arts and Science, Chennai
- Resource person for Two day Workshop on Data Analysis using Statistical Packages,29-30 June 2020,organized by Saranganathan college of Engg,Trichy
- Resource person for Three day FDP programme on Fuzzy Mathematics and its applications,11-13 July-2020,organized by Government college Daman
- Invited talk on “Optimization Techniques for Power Management system, July 16,2020, Organised by CSIR,Summer research trining Programme and Selected as Mentor in Project 13-Interdisciplinary approach for sustainable use of resources
- Resource person for National Level Virtual FDP on “Agile Mathematical tools for Modern World” July 10,2020 organised by Rathnam college of Arts and Science, Coimbatore
- Invited talk in Forum stat, Faculty Seminar on August 1,2020, organized by CUTN
- Resource Person for Five day National Level short term training programme on Modern Mathematical tools for Calculus and Analytics”,entitled Optimization techniques using MATLAB on 10-8-2020 organized by KCT,Coimbatore
- Resource Person Sri Venkateshwara College of Technology, Role of Mathematics in Engineering,Chennai,7th September 2020.
- Resource Person for ATAL Programme, Statistical analysis for AI and ML organized by VIT on September 22,2020
- Resource person for PKR arts college for women,Coimbatore on Mathematical methods in soft computing,September 28,2020
- Resource person workshop in Discrete Mathematics organized by RMD on September 28,2020 & October 7, 2020
- Resource person for Sairam Engg,Chennai, Machine learning techniques and their applications on October 28,2020

- Resource person in ATAL programme organized by SRM University on November 5 & 6, 2020
- Invited talk in International Webinar on Statistical Applications in Clinical trials, organized by MSU on December 7,2020
- Resource person for e workshop on R programming and its applications organized by MSU on December 17,2020

Organizer/Convenor

- MAOSC 2008,Sathyabama University.
- CSIR sponsored NAWAL 2009 at Sathyabama University.
- National Workshop on Structural Equation Modeling (SEM) using AMOS and its Applications ,(Hands on Training-Lab Session) on 12 August 2017, at VIT,Chennai
- International Workshop on Social Network Analysis on November 3,2017 at VIT,Chennai
- National Science day Samarth-2017 on Feb 28,2017 at VIT,Chennai
- Organiser of International Conference on Mathematical Computer Engineering from 2015 to 2019 at VIT,Chennai
- CSIR sponsored Two day National workshop on Recent advances in Mathematical computing, 30th November & 1st December 2012 at VIT,Chennai
- CSIR sponsored Two day National conference on recent trends in Mathematical computing with Matlab session during 23-24 August 2013 at VIT,Chennai
- MATLAB workshop for Engineering Applications on August 29, 2015
- National Workshop on Applied Statistical Methods using R [Hands-on training sessions] October 18, 2016.
- International Workshop on "Optimization Techniques in Decision Support Systems and IoT" , 16-17 December 2016.
- Organiser -Registration in International Conclave on managing disruptive trends and technologies at VIT on 31 August 2017.
- Convenor of International workshop on Graph Theory and IoT in Engineering at VIT during 13-14 July 2018.
- CSIR sponsored International Workshop on Graph Optimization Techniques for smart cities, 15th March 2019 at VIT,Chennai.
- Desmath, Value added programme for B.Tech Fashion Technology,30 hrs –Geometry and Topology practical sessions during 21-24 March 2019
- National Set conference for Engineering 1st Nov 2019 at VIT, Chennai
- World Engineering Education Forum (WEEF - 2019),13-16 November 2019
- Organiser of STATMIND-online Quiz conducted at CUTN on 18th July 2020 for the School of Mathematics and Computer Science, CUTN
- Convenor of National Webinar on Mathematics in Industry, Challenges and Frontiers at CUTN on October 3,2020

Other Activities:

- Coordinator for UG/PG admissions counselling at VIT, from 2013 - 2016.
- Received prizes in Campus day sports events during 2013-2014.
- Undergone training in workshop organised by Apollo First Aid and Basic Cardio Pulmonary resuscitation on 18 July 2018.
- Training on Virtual Platforms organised by ASC,VIT 25-26 June 2012
- External DC member for Ph.D DC meeting at Dr.MGR Educational and Research Institute,25 February,2019.
- Board of Studies meeting at AMET University on April 21,2017, Mathematics Syllabus revision for all courses.
- Delivered Guest Lecture on Applications of Laplace Transforms organized by Loyola. CAM College of Engineering and Technology
- Training on Virtual Platforms, organized by ASC,VIT during 25-26 June,2012
- FDP organized by TISEL during 27 to 28 June 2012
- Advanced Computations through Mathematics, organized by VIT on 8 Feb 2013
- International year of Statistics National training on Applications of Probability theory organized by Bharadidasan University,12th July 2013.
- Women Development Club Coordinator from 2013-2016 at VIT,Chennai
- Convenor of National Folk Festival 2019 (VIT Chennai in association with South Zone Cultural Center, Government of Tamil Nadu),11-13th August 2019
- Assistant Director-student Welfare and Internal Compliance cell member of VIT University,2019
- BOS member meeting at MSU on 25th June 2019 for M.Sc courses.
- BOS and Academic council member for Mathematics Syllabi-VIT Bhubal
- M.Sc Data Science syllabus –BOS member at VIT Chennai
- MHRD online mega challenge, 18-25 April 2020 certificate of participation.
- Completed MOOC course in UDEMY titled Probability for Statistics and Data Science, on April 3 , 2020.
- Completed MOOC course in Cognitive AI-IBM, titled Introduction to Data Science, April 7 ,2020
- Completed MOOC course in Cognitive AI-IBM, titled R - 101, April 7 ,2020
- Certificate of Achievement from Simplilearn for the completion of training programme titled Introduction to Data Analytics, April 8,2020
- Certificate of Achievement from Simplilearn for the completion of training programme titled Introduction to Artificial Intelligence, April 15,,2020
- Completed MOOC course in Cognitive AI-IBM, titled Block chain essentials, April 22 ,2020
- Participated in FDP on Recent trends in Biomedical Engineering-Research Perspective, April 26th to 30th 2020, by Dr.NGP Institute of Technology