

Curriculum Vitae



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Nationality : Indian

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Professional Experience: 25 years and 2 months

Industrial Experience: 2 years

- Professor, from May 2023 till date, Department of Statistics and Applied Mathematics, Central University of Tamil Nadu, Neelakudi, Thiruvarur - 610 005 Tamil Nadu, India.
- Associate Professor from May 2020 to May 2023, Department of Statistics and Applied Mathematics, Central University of Tamil Nadu, Neelakudi, Thiruvarur - 610 005 Tamil Nadu, India.
- Professor, Department of Mathematics, School of Advanced Sciences & Assistant Director-Student Welfare at Vellore Institute of Technology, Chennai, from May 2012 to May 2020.
- Associate Professor at Sathyabama University from July 2002 to April 2012.
- Statistician-Research & Development at Alert Management Consultants, Belgium based MNC from May 2000 to June 2002.

Grants received

- Received a grant of Rs.96,960/- and conducted the "Two-day Training programme on Digital Literacy focussing on skill development and awareness on Higher education for rural youth of Thiruvavur", sponsored by RGNIYD during 4th March-5th March 2024-Convenor.
- Received a grant of Rs.95,000/- and conducted the "Two-day Training programme on Enhancing Mental Health for Rural Youth ", sponsored by RGNIYD during 1st March-2nd March 2024-Co-convenor.

Project Ongoing:

Project Director in ICSSR Project entitled, "**Longitudinal Impact of Gender Affirming Endocrine Interventions on the Mental Health and Well-Being of Transgender Youths – A Yardstick approach**" and sanctioned amount is Rs. 1,50,00,000/- (One Crore Fifty Lakhs Rupees)-Central University of Tamil Nadu

Projects Completed:

1. BRFST for Rs. 30 lakhs at Sathyabama University.
2. Seed fund for Rs.3 lakhs at Vellore Institute of Technology

Patents Published & APP design:

1. Method to normalized microscopic image feature to facilitate robust learning in clinical pathology on August 25, 2020. No: 202041036034-VIT
2. A Hardware design of a system to read Braille, Indian Patent, Application number: 202021046068A, Issue No: 46/2020, Patent published 2020, Patent Number-58158-CUTN.
3. A Hardware design of a system to read Braille using Cloud Framework, Indian Patent, Application Number: 202021046074A, Issue No: 46/2020, Patent published 2020, Patent Number-58159-CUTN.
4. A frame work for emotion detection from art work using Deep Learning, Indian Patent, Application No: 202241018373A, IssueNo:15/2022, Published on 2022, PatentNumber-23820-CUTN.
5. Design of a CHATBOT APP along with Project student for CUTN admission queries, 2023.

Awards and Honours:

1. Nominated by CUTN and participated in one week exposure training programme on “Official Statistics”, organized by the Ministry of Statistical Systems Training Academy, Ministry of Statistics, NSSTA, Government of India, Greater Noida during. 24th – 28th June 2024 & 21-25 July 2025.
2. Second prize in Slogan writing and Elocution in the International Women’s Day celebrations organized by ICC, CUTN, on 8th March 2024
3. Mentor for two Research projects in the research idea contest organized by Indo Korea Science and Technology Centre with Christ University (PRISM **2022-2023**) and won **encouragement Prize** on 12th January 2023 entitled (i) Implementation of Artificial Intelligence techniques to Mitigate child abuse and child trafficking. (ii) Design of a Touch and Voice Assisted Multilingual communication system for Intensive Care Unit (ICU) patients
4. First prize in innovation titled Emotion Extraction through Art using Deep Learning (For Autism Children) organized by MHRD-ICC, CUTN ON 7th March 2022.
5. Best Professor, Raman & Ramanujam Award, 2017 by Ratnam group of Institutions.
6. Best Researcher award at VIT in 2015 to 2019.
7. Best professor award - 2014, by Lions club international.
8. Best Professor of 2013 by VIT University.
9. Best Professor of 2012 by ASDF by Pondicherry Government.
10. Received “Best Teacher Award 2004 & 2007, 2010” at Sathyabama University, Chennai.
11. Received “Bharath Jyothi Award” in New Delhi - 2005.

Knowledge of Software:

- MATLAB, R, SAS, SPSS, Python

Membership of Academic bodies:

- Life Member, Indian Society for Probability and Statistics (ISPS)
- Academic Council Member at Vellore Institute of Technology, Bhopal.

Research Interests:

- Optimization Algorithms
- Stochastic and Statistical Models
- Data Analytics, Machine Learning and Deep Learning

Journal Reviewer:

- International Journal Mathematics in Operational Research, Journal of Analysis, Aligarh Journal of Statistics, International Journal of Mathematical, Engineering and Management Sciences.

Research Paper Publications:

1. **C. Vijayalakshmi**, Arif A(2025), Structural Equation Modelling approach for Personal Protective Equipment Waste Management behavior among youth in India during covid -19, Journal of Cyber security, IF:6.1, Scopus, Vo:7, Issue 8, PP:1-15, ISSN:2096-1146,
2. **C.Vijayalakshmi**, K.Ramya and Pranav TV(2025) , Drowsiness detection system using Deep Learning, High Technology Letters, Vol 31(5), PP:297-306, ISSN 1006-6748
3. **C.Vijayalakshmi**, B.Hema and Athira(2025), Diabetes prediction using Machine Learning Algorithms, Journal of Informetrics, Volume 19, Issue 4, PP: 52-74,ISSN 1875-5879
4. Visalakshmi, S; **Vijayalakshmi, C**; Srividhya, S; Lathabhavan, Remya; Sundarraju, Saranya; Hariharan, K Corresponding author: Remya Lathabhavan(2025), Gender Based Violence against Transgenders – Exploring Mental Health and Inclusion Measures, Mental Health and Social Inclusion, Emerald publishers, Scopus, DOI: 10.1108/MHSI-08-2025-0221
5. S. Visalakshmi, **C. Vijayalakshmi** , S. Srividhya , Saranyasundarraju (2025) , Beyond gender binaries: marginalization and resilience of gender nonconforming youths in India , High Technology Letters, Scopus, IF:5.6, Volume 31, Issue 8, PP:324-330, ISSN NO : 1006-6748
6. Thirugnanasambanthamoorthi M, **C.Vijayalakshmi*** and Nivedha D(2024), Implementation of Optimization Algorithms for Transportation problem of Drum seeder in delta region-A Yardstick Approach,,Scope, Volume 14 Number 04 December 2024,pp-433-449
7. Velu Chinnasamy Shanmugam, **Vijayalakshmi, C.**,M.Mynarani and K.Pradeepa Veerakumari(2024). A Study utilizing advanced Machine Learning techniques to analyze gestational diabetes mellitus and its implementations. JP Journal of Biostatistics.24(2), 227-234, <http://dx.doi.org/10.17654/0973514324015>
8. Velu Chinnasamy Shanmugam, Kumarasamy, P., & **Vijayalakshmi, C.** (2024). An exhaustive empirical statistical analysis and interpretation of bitcoin data. *Advances and Applications in Statistics*, 91(4), 421–437. <https://doi.org/10.17654/0972361724022>
9. Subramani R,Suresh K,Cecil Donald, **Vijayalakshmi C**(2024).Lane detection using Kalman Filtering, Procedia Computer Science, Elsevier,Scopus, IF:2.56, 230(1), 598-607
10. Shri Bharathi S.V, Parasuraman T, Akila S,Ramakrishnan R,Shivaraju K,Krishnakumar S,Sreedev S.A,Vijayalakshmi C,**Vijayalakshmi C**(2024), Yoga Poses Identification and Classification Based on Convolutional Neural Network and Transfer Learning with Media Pipe, Int. Res. J. Multidiscip.

11. Mahesh Ganesapillai, Rishabh Mehta, Aditya Tiwari , Aritro Sinha , Harshdeep Singh Bakshi, **Vijayalakshmi Chellappa**, Jakub Drewnowski (2023), Waste to energy: A review of biochar production with emphasis on mathematical modelling and its applications, *Science Direct, Elsevier, Heliyon*, 9(4), 1-22. **IF 3.776, SCOPUS, WoS**, <https://doi.org/10.1016/j.heliyon.2023.e14873>
12. Mahesh Ganesapillai, Aditya Tiwari, Rishabh Mehta, Aritro Sinha, Ishita Sarkar, Bidisha Mondal, **Vijayalakshmi Chellappa** & Amritbir Riar (2023), Is the pandemic masking waste management? – A review on fall out of the COVID-19 viral contagion, *Green Chemistry Letters and Reviews, Taylor & Francis*, 16(1),1-26,2164224, **IF: 4.99, SCOPUS, WoS**, <https://doi.org/10.1080/17518253.2022.2164224>
13. Yuvarani. C and C. **Vijayalakshmi** (2023), Simulation of batch arrival queuing model using Artificial Neural Network, *Purakala*, UGC care approved Journal, 32(1), 280-286.
14. M. Premalatha and C. **Vijayalakshmi** (2023), Weighted Support Vector Machine Classification by using Confidence Parameters for Unbalanced Sampling Target Data Set, *Recent Trends in Computational Intelligence and its Application, CRC press*, 1(1), 346-351, ISBN:978-1-032-48410-5, **SCOPUS**, <https://doi.org/10.1201/9781003388913-46>
15. **Vijayalakshmi Chellappa** and Rajeshkanna Baskaran (2023), Dehaze Information Removal Using Deep Learning Framework, *AIP Conf. Proc.* 2797, 1(1),070006-1-9, **IF:0.41,SCOPUS**, <https://doi.org/10.1063/5.0149962>
16. C. Yuvarani and C. **Vijayalakshmi** (2023), Artificial Neural Network approach in design of Queueing Models, Stochastic Processes and their Applications in Artificial Intelligence, 3(1), 23 to 38, <https://doi.org/10.4018/978-1-6684-7679-6>
17. Sivalingam, Vinitha Vijayan, Ganesh Nair, Athira, Sindhu. Karyankandi Puthanpurayile, Sowmya Adapa, Sahithi Pesala and **Vijayalakshmi Chellappa** (2023), Implementation of Statistical Techniques to Analyze Agriculture Data, *AIP Conf.Proc.*2797,1(1),070004-to18,**IF:0.41,SCOPUS**, <https://doi.org/10.1063/5.0149053>
18. P. R., Thiripura Sundari, and **Vijayalakshmi C.**(2023) "Reverse Supply Chain Inventory Management With Remanufacturing of Multiple Products." *Stochastic Processes and Their Applications in Artificial Intelligence*, edited by Christo Ananth, et al., IGI Global, pp. 139-158. <https://doi.org/10.4018/978-1-6684-7679-6.ch010>
19. G.T.Shakila Devi and C.**Vijayalakshmi** (2023). Analysis of Service Interruptions in Bulk Queueing Theory. *AIP Conference Proceedings* 2852, 140001-140004; <https://doi.org/10.1063/5.0165135>
20. Mahesh Ganesapillai et al. and C. **Vijayalakshmi** (2022), An experimental study probing moisture kinetics and indices of microwave dried fecal sludge with an insight on real world applications, *Separation Science and technology, Taylor and Francis, LLC*, 1(1),1-15, **IF: 2.15, SCOPUS, WoS**, <https://doi.org/10.1080/01496395.2022.2041034>
21. Mahesh Ganesapillai and C. **Vijayalakshmi** (2022), Design and Analysis of Artificial Neural Network (ANN) models for achieving self-sustainability in sanitation, *Applied Sciences*, 1(1),1-21, **IF: 2.838, SCOPUS, WoS**, <https://doi.org/10.3390/app12073384>
22. Premalatha, M., **Vijayalakshmi. C** (2022). Randomly Selection of Interior Points in SV Learning Algorithm Uses of Confidence Parameter, *Advances in Intelligent Systems and Computing*, Springer, Singapore, 1422(1),1-12, SCOPUS, https://doi.org/10.1007/978-981-19-0182-9_29
23. R. Subramani and C. **Vijayalakshmi** (2022), Augmented Lagrangian Model to analyze the synergies of Electric Urban Transport systems and Energy distribution in smart cities, *Smart Buildings Digitalization, CRC press*, Taylor and Francis group,1(1),189-202,ISBN:978-1-032-14642-3,**SCOPUS** , <https://doi.org/10.1201/9781003240853>
24. C. **Vijayalakshmi**, R. Subramani, N. Anitha (2022), Optimal Inventory system in a Urea bagging Industry, Sustainable computing and optimization, *Intelligent computing and optimization for sustainable development, Wiley*, 339-352, ISBN 978-1-119-79182-9, **SCOPUS**, <https://onlinelibrary.wiley.com/doi/book/10.1002/9781119792642>
25. C. **Vijayalakshmi** (2022), Design of a Mixed Integer Linear Programming model for Optimization of supply chain of a single product with disruption scenario, *Sustainable Intelligent computing and optimization for sustainable development, Wiley*,1(1),357-368, ISBN 978-1-119-79182-9, **SCOPUS**, <https://onlinelibrary.wiley.com/doi/book/10.1002/9781119792642>.
26. P. R. Tiripura Sundari and C. **Vijayalakshmi** (2022), Implementation of Non-Linear Inventory

- Optimization model for multiple products, *Intelligent computing and optimization for sustainable development*, Wiley, 447-459, ISBN 978-1-119-79182-9, **SCOPUS**, <https://onlinelibrary.wiley.com/doi/book/10.1002/9781119792642>.
27. A. Vijayalakshmi, B. Rajesh Kanna and C. Vijayalakshmi (2021), Extrinsic parameter's adjustment and potential implications in Plasmodium falciparum malaria diagnosis, *Microsc Res Tech*, Wiley Periodicals, LLC, PMID:34553808, 85(2), 685-696, **IF: 2.769, SCOPUS**, <https://doi.org/10.1002/jemt.23940>
 28. Rishab Baskaran, Rajesh Kanna and C. Vijayalakshmi (2021), Machine Learning Technique for analyzing the behavior of Fish in an Aquarium, *Communications in Computer and Information Science*, Springer nature, 1(1), 55-65, **IF: 0.48, SCOPUS**, https://doi.org/10.1007/978-981-33-6463-9_5
 29. Rao Krishna Vrinchi et al., C. Vijayalakshmi (2021), Design and Analysis of a System to Read Braille with Remote Cloud Architecture", *IEEE Explore*, 1(1), 1-6, **SCOPUS**, <https://doi.org/10.1109/INDICON49873.2020.9342520>
 30. C. Kavitha and C. Vijayalakshmi (2021) Investigating the implementation of supplier evaluation and ranking by Improved TOPSIS, *Current topics on Mathematics and Computer Science*, 8(7), 160-164, ISBN 978-93-91595-40-1, **SCOPUS**, <https://doi.org/10.9734/bpi/ctmcs/v8/3755F>
 31. B. Rajesh Kanna & C. Vijayalakshmi (2021) Touch and Voice-Assisted Multilingual Communication Proto type for ICU Patients Specific to COVID'19 , *WILEY- Smart Healthcare System Design: Security and Privacy Aspects*, Scrivener Publishing, LLC, 77-85, ISBN: 9781119791683, **SCOPUS** <https://onlinelibrary.wiley.com/doi/10.1002/9781119792253.ch4>.
 32. C. Vijayalakshmi, S. Bangusha Devi (2021), Implementation of Machine Learning Techniques for the Analysis of Transmission Dynamics of COVID-19, *WILEY-Smart Health care System Design: Security and Privacy Aspects*, Scrivener Publishing, LLC, 313-349, ISBN: 9781119791683, **SCOPUS** <https://onlinelibrary.wiley.com/doi/10.1002/9781119792253.ch14>
 33. C. Vijayalakshmi and C. Yuvarani (2020), Design and Analysis of General bulk queueing models and its Applications, *Journal of Combinatorial Mathematics and Combinatorial Computing*, Canada, 112(1), 193-212, **IF: 0.43**
 34. S. Aicewarya Devi and C. Vijayalakshmi (2020), Bio inspired Optimization algorithms in disaster, *Procedia Computer Science*, Elsevier, 172, 176-180, **IF: 2.09, SCOPUS** <https://doi.org/10.1016/j.procs.2020.05.027>
 35. Shraddha. Band C. Vijayalakshmi (2020), Design and Analysis of Machine Learning algorithms for the reduction of crime rates in India, *Procedia Computer Science*, Elsevier, 172, 122-127, **IF: 2.09, SCOPUS**, <https://doi.org/10.1016/j.procs.2020.05.018>.
 36. Jose. S and C. Vijayalakshmi (2020), Design and Analysis of Multi objective Optimization problem using Evolutionary algorithms, *Procedia Computer Science*, Elsevier, 172, 896-899, **IF: 2.09, SCOPUS** <https://doi.org/10.1016/j.procs.2020.05.129>
 37. K. M. Mancy and C. Vijayalakshmi (2020), Design of Stochastic model for the distribution interval between fetal development stage and post part amenorrhoea, *Procedia Computer Science*, Elsevier, 172, 421-426, **IF: 2.09, SCOPUS** <https://doi.org/10.1016/j.procs.2020.05.093>.
 38. Rishab Bhaskaran, Rajesh Kanna Baskaran and C. Vijayalakshmi (2020), Machine Learning Technique for analyzing the behavior of Fish in an Aquarium, *Communications in Computer and Information Science*, pp. 55-65, https://doi.org/10.1007/978-981-33-6463-9_5.
 39. N. Anitha, C. Vijayalakshmi, P. S. Premkumar (2020), A new paradigm in Mission Planning with unmanned Aerial Vehicles using Fuzzy Optimization techniques, *International Journal of Advanced sciences and technology*, Elsevier, Vol. 29, No. 7, (2020), PP. 8108-8114, ISSN: 2005-4238 (Print), <http://sersc.org/journals/index.php/IJAST/article/view/24633>, **Impact Factor : 0.48**.
 40. Ezhilarasan. N and Vijayalakshmi. C (2020), [Optimization algorithm for decision theory with uncertainty](https://www.ijstr.org/final-print/mar2020/Optimization-Algorithm-For-Decision-Theory-With-Uncertainty.pdf), *International Journal of Scientific and Technology Research*, 9(3), pp 4706-4710, <http://www.ijstr.org/final-print/mar2020/Optimization-Algorithm-For-Decision-Theory-With-Uncertainty.pdf>.
 41. Aicevarya Devi. S and C. Vijayalakshmi (2020), Disaster Management using bio inspired algorithms, *International Journal of scientific and Technology Research*, 9(3), PP-5691-5694, <https://www.ijstr.org/final-print/mar2020/Disaster-Management-Using-Bio-Inspired-Algorithms.pdf>.
 42. Angammal. S, C. Vijayalakshmi, Hanna Grace (2020), Multi criteria optimization techniques for sustainable Agriculture in crop planning : Are view, *Pensee*, ISSN 0031-4773, Vol 50, issue 20, PP-36-

43. Jose. S and **C. Vijayalakshmi (2020)**, Optimization of multi-objective problem using evolutionary algorithms, International Journal of Scientific and Technology Research, 9(4) pp-1726-1728, <https://www.ijstr.org/final-print/apr2020/Optimization-Of-Multi-objective-Problem-Using-Evolutionary-Algorithms.pdf>.
44. R. Subramani and C. Vijayalakshmi (2019), Implementation of optimal scheduling model for power flow system, International Journal of Computer aided engineering and technology, Vol. 11, No. 2, <https://doi.org/10.1504/IJCAET.2019.098132>, **Impact Factor : 0.67**
45. Mahesh Ganeshapillai et al., and **C. Vijayalakshmi (2019)**, Design and analysis for the removal of active pharmaceutical residues from synthetic waste water stream, Environmental Science and Pollution Research <https://doi.org/10.1007/s11356-019-05070-9>, Vol - 26(18):18739-18751, **Impact factor: 2.8**.
46. K. M. Mancy and **C. Vijayalakshmi (2019)**, Implementation of a Markov Model for the analysis of Parkinson Disease, Springer AISC Series (Advances in Intelligent Systems and Computing), The AISC Series has ISSN Number: 2194-5357.
47. Premalatha. M and Vijayalakshmi. C (2019), SVM approach for non-parametric method in classification and regression learning process on features election with ϵ -insensitive region, Malaya Journal of Matematik, Vol. S, No. 1, 276-279, <https://doi.org/10.26637/MJM0S01/0051.pp-276-279>.
48. K. M. Mancy and C. Vijayalakshmi (2019), 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, pp 1088-1091.
49. K. Kaleeswari, T. Johnson and **C. Vijayalakshmi (2018)**, Analysis of Fuzzy Logic based control model for water treatment plant in Indian scenario, ARPN Journal of Engineering and Applied Sciences, Volume: 13, Issue: 5, pp.1780-1785,ISSN-1819-6608, http://www.arpnjournals.org/jeas/research_papers/rp_2018/jeas_0318_6863.pdf.
50. K. Kaleeshwari, Johnson, **C. Vijayalakshmi (2018)**, Influencing factors on Water Treatment Plant Performance Analysis using Fuzzy Logic Techniques, International Journal of Pure and Applied Mathematics, Volume 119 No. 11, 29-37 ISSN: 1311-8080 Impact Factor: 0.635.
51. **C. Vijayalakshmi** and R. Subramani (2018), An Analysis of the Stochastic Behaviour for the Reliability and Cost Benefit Analysis in a Petro chemical Industry, International Journal of Pure and Applied Mathematics, Volume 119, No. 11, 383-391 ISSN: 1311-8080, <https://acadpubl.eu/hub/2018-118-23/articles/23b/10.pdf>, Impact Factor: 0.635.
52. P. Sona, T. Johnson and **C. Vijayalakshmi (2018)**, Analyzing Factors in Production Management Using Fuzzy Cognitive Mapping, International Journal of Pure and Applied Mathematics, Volume 119, No. 11, pp: 517-524, ISSN: 1311-8080, Impact Factor: 0.635.
53. K. Kaleeswari, T. Johnson and **C. Vijayalakshmi (2018)**, Application of Fuzzy AHP in Water Treatment Plant Location, Jour of Adv Research in Dynamical & Control Systems, Vol.5, Issue1, ISSN1943-023X.
54. Yuvarani. C and **Vijayalakshmi. C (2018)**, Multistage M[X]/GK/1 Queue with Unreliable Server having Multiple Vacation and Reneging, Jour of Adv Research in Dynamical & Control Systems, Vol. 5, 01-Special Issue, ISSN, 1943-023X.
55. P. Sona, T. Johnson, **C. Vijayalakshmi (2018)**, Facility Location Selection Using FAHP, Jour of Adv Research in Dynamical & Control Systems, Scopus 2018, Vol.5 (URL), 01-Special Issue, ISSN, 1943-023X.
56. K. Kaleeswari, T. Johnson, **C. Vijayalakshmi (2018)**, Fuzzy Cognitive Map Approach to Sustainable Development of Water Resources, International Journal of Pure and Applied Mathematics, scopus 2018, Volume 119 No. 9 2018, 11-20 ISSN: 1311-8080, IF 0.635.
57. P. Sona, T. Johnson, **C. Vijayalakshmi (2018)**, 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.

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60. Rajesh Kanna B, Mohd Shafi Bhat, **Vijayalakshmi** C, Alex Noel Joseph Raj (2018), Model to estimate the salt and pepper noise density level on gray-scale digital image, EAI Endorsed Transactions on Energy Web and Information Technologies, Volume: 5, Issue:18, ISSN2032-944X, <http://dx.doi.org/10.4108/eai.12-6-2018.154816>,
61. C. Yuvaraniand **Vijayalakshmi**. C (2018), 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, Volume:1, Issue:1, pp.1-8, <https://doi.org/10.1080/01430750.2018.1490355>.
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65. Prithvi Simhaa, Cecilia Lalander, C. **Vijayalakshmi**. C (2018), what do consumers think about recycling human urine as fertilizer? Perceptions and attitudes of a university community in South India, Water Research, **Science Direct, Elsevier**, <https://doi.org/10.1016/j.watres.2018.07.006>, pp.527-538, ISSN/ISBNNos: ISSN:0043-1354, **Impactfactor7.621**.
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1.	A bulk queue G/M/1 in Inventory control	Computational Mathematics ISSN: 0972-8791	Narosa Publishing House, New Delhi	PP 239-249,2008,
2.	A practical approach on two server queueing model with single vacation	Contributions to Statistical Research, Publications division, ISBN 978-81-908352-8	MSU Publishers, India	pp 1-20, ,2005

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15	Stochastic Divination of Reckoning Enactment On Multi Class Queuing System	Indian Journal of Science and Technology	Publications of Informatics (India) Ltd	[ISSN 0974-6846], Volume6, Issue 4, April 2013,p.p4294-4298, [<u>SCOPUS INDEX</u>]
16	Stochastic Control Optimization Technique On Multi-Server Markovian Queueing System	Indian Journal of Applied Research		June -2013 ISSN 2249-555X with Impact Factor(0.8215)
17	Learning Algorithm of SVM Reduce the Optimization Error and Give the Maximum Accuracy of the QP.” ,	Indian Journal of Applied Research (IJAR)	ISSN: 2249-555x, Vol 4, issue 4 April 2014, pp.387-391	The Global journal Publication, Ahmadabad, Impact factor 2.1652
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1.	Implementation of Hidden Markov Model for Gene products	IX Islamic Countires 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
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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 . 29-3

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,	Anna University Publication, Trichy.	PP.2800-2816.,2009
15.	An Algorithmic approach for optimization by using Lagrangian Model	International conference ICOREM, Anna University,	Anna University Publication, Trichy.	PP.2459-2492,2009
16	Design and Analysis of Multi server queuing 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 Queuing Network”, , SPRINGER-VERLAG BERLIN, HEIDELBERG, JAN-2012.	International Conference on Information Systems Design and Intelligent Application-(INDIA-2012) at Visakhapatnam Chapter during January 2012	Springer – Verlag Berlin Heidelberg, U.S.A	p.p329-336 ISBN: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 (ICCA-2012) (ISBN 978-81-920575-4-5)	ASDF, Pondicherry, India	p.p 165-169

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 ,BHUBANE SWAR Inter science 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 Queuing Network	International Conference on Information Systems Design and Intelligent Applications 2012(INDIA-2012)	Proceedings of the International Conference on Inform. Systems, AISC 132, pp. 329–336.springerlink.com © Springer-Verlag Berlin Heidelberg 2012	Advances in Intelligent and Soft Computing , 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	International Conference on Operations Research	Anna University, Trichy India	pp.867-882,May2009

	Extractive Summarization	applications in Engineering and Management (ICOREM)		
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 Queuing Network	International Conference on Computer Applications-2012 (ICCA 2012)	Proceedings of the International Conference on Computer Applications-2012	Volume 1 Techno Forum Group India
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	CIT, Coimbatore	ISBN:978-81-923752-2-9, pp.no: 571-581

		“MMASC-2012” during July 2012,		
42	A Comparison on Soft-Error Correcting Codes of Memory Cells in a Markov Random Field	International Conference on Cloud Computing and e-Governance 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),May2013 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 Queuing 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
48	Implementation of Machine Learning Techniques for the Transmission	Inter.conf of AI and ML applications in smart buildings AMSB 2020	VIT University Chennai	23-24 July 2020

	dynamics of COVID 19			
49	Statistical Analysis of real time data	28 th International Conference of Forum for Interdisciplinary Mathematics, Synergies in Computational Mathematical Statistical and Physical Sciences	Forum for Inter disciplinary Mathematics (FIM),SSN & Stella Maris college, Chennai	23-27 November 2020, Page no:148,Vol:1,
50	Implementation of Machine Learning Techniques to analyze Agriculture data	Conference on Mathematical Sciences and Applications in Engineering	Hindustan University	9-10 December 2021
51	Dehaze information removal using Deep Learning framework	Conference on Mathematical Sciences and Applications in Engineering	Hindustan University	9-10 December 2021
52	Implementation of Optimization Algorithms for transportation problem of Drum Seeder in Delta region – A yardstick approach	International Conference on Computational Mathematics and Advances in Modern Technology	Hindustan Institute of Technology	16-18 October 2024

NATIONAL CONFERENCE PRESENTATIONS:

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 queuing 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	Narosa Publishing	Pp. no 239-249.,2004

		Computational Mathematics, NCRTCM	House, New Delhi.	
4	General Bulk queueing system for limited Batches	National Conference on Electronics and Information Technology with Industrial applications	Sathyabama University	Vol.1, pp.86-94,2006
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	National Conference on Application of Basic Sciences in Engineering “NCABSE 2011”	S.A Engineering College, Chennai, India	PP: 116-133 March 2011

	Operations Research			
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 :978-81-8424-750-3,SRM University	Allied Publishers, India	pp.157-165, Feb 2012.
19	An Implementation of Integer Programming Model in Project Selection using	Recent Trends in Statistics and Computer Applications	Bharathiyar University Publication	2010

	Artificial Neural Network			
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) NCRTMC-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 Queueing Network	Recent Trends in Mathematical Computing (NCRTMC’13)	VIT University, Chennai, August-2013	p.p380-385, ISBN:978-93-82338-68-0, 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
26	House Price prediction using Machine Learning Algorithms	Proceedings of National conference on youth Advanced Computational Intelligence	YACC-2023 ISBN-978-93-80430-83-6	22-23, March 2023 CBA

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 Queuing Theory	Meenakshi Publications, Chennai	2003, Edition 1	A. Singaravelu and C. Vijayalakshmi
4	Engineering Mathematics I & II	Yesdee Publishers	2018, 2021(e copy),2024	C.Vijayalakshmi, K. Sivaselvan, R. Subramani

LIST OF Ph. D SCHOLARS 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.ShenbagaEzhil-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 Techniques for Interactive applications	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 applications	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 Optimization	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
16	M.Thirugnanasambanthamoorthi-CUTN	Optimization of Project Scheduling Activities in Dynamic CPM and PERT Networks Using Evolutionary Algorithms	Joined on 2023

UG/PG-Industrial projects Guidance at VIT: 5

1. Behavioral study of fish in an Aquarium setup- Rishabh Bhaskararan, Swapnil Sangal and Pranav Sancheti, B. TechCSE-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

Conference/Workshop/Seminar Presentation/participation

- Faculty Development Programme, Basic Pedagogy & Soft Skills organized 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, organized by VIT, Vellore, during 22-23 March, 2013
- Chairperson for International Workshop on parallel computing, VIT on 11th December 2014.
- Linux Orientation programme organized by Open-Source Software group, VIT on 15th December 2014.
- Two-day National workshop on Advanced Optimization with Hands on session using MATLAB, organized 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", organized 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 organized by SCSE, VIT during Nov 30-Dec 2, 2016

- Faculty Development Programme on Project Based Learning(PBL),organized 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-CybertnetyX, 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 28thJanuary,; Latex for Engineer 30th January, Graph theory and network 31st January, Effective PBL methods 29th Jan, 3D and ceramic printing 31stJan,Mental wellness at workplace 28th Jan, Gamified teaching 30th Jan, Deep learning techniques 29thJan,Hots for you 3rd July, Image processing and Machine Learning techniques 3rdJuly,Conceptual account of signal processing 3rd June-2019 organized by ASC, VIT, Chennai.
- 2017-FDP-Latex for researchers 13thApril, Power of punctuation 23rdAugust,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 organized by SASTRA University, Thanjavur
- Webinar “ Stochastic Models for call centre” organized 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.
- Participated in a webinar on Stochastic Models of a Call Centre organized by Sairam college of Engineering, Chennai on 30th March 2020
- Participated in a webinar on Modeling the spread of Covid 19 organized by St.Joseph college of Engineering, Chennai on 12th August 2020.
- Participated in online National Lecture series Graph theory and its applications, organized by Mar Thoma college in association with Kerala Mathematical Association during 19-21 August, 2020.
- Chair person in Fourth International conference on computing and Network communications –CoCo NET ‘20 organized by VIT during October 14-17,2020
- Participated in Faculty development program on Machine Learning and Optimization for uncertain decision making organized by National Institute of Technology, Warangal during 5-3-2021 to 9-3-2021
- Participated in Workshop in Operations Research using R, organized by Vellore Institute of Technology, Chennai, during June 18-19,2021
- Participated in Five days workshop on Techno Pedagogical tools and techniques organized by Central University of Tamil Nadu, during 5-9 July 2021.
- Participated in 40 hours Faculty Development Programme on Deep Learning Foundations and Applications, by Ministry of Electronics and Information Technology, NIT Warangal, VIT Chennai during 5-14 July 2021.
- Chairperson for IEEE MASCON 2021,Chennai chapter during 27-28 August 2021
- Participated in Researcher Academy-Elsevier talk on Open Science: A multifaceted framework to improve science and health outcomes at Indian Council of Medical Research, 29th October 2021

- Chairperson for the conference on Mathematical Sciences and Applications in Engineering during 9-10 December 2021.
- Webinar participation on Mathematical applications in Data Science organized by Dr. B. S. Abdur Rahman Crescent institute of science and technology on 31st January,2022
- Webinar participation on Bringing Artificial Intelligence to the Edge, organized by ACM India & Don Bosco college on 12th March 2022
- Participated in the workshop on Applications of Stochastic modelling using Software organized by MSU from 21-26 March 2022.
- Chairperson for the International conference on recent strategies in Mathematics and Statistics, organized by IIT Madras and Stella Maris college, Chennai, 19-21 May 2022.
- DRC member at CUTN,2023
- Reviewer for the Journal of Analysis,2023
- Participated in Faculty Development Programme on Applied Statistical Methods for Research from 3-7 April 2023, organized by Vellore Institute of Technology, Chennai
- Chairperson for the session “Constrained Bayesian Method-A new approach for hypothesis testing in the DST-SERB sponsored International conference on Recent trends in Stochastic Modelling and its applications during June 15-17,2023.
- Participated and presented a paper in the DST-Serb sponsored International conference on Artificial Intelligence of Things for sustainability” titled “An Extended Kalman Filter (EKF) approach for position estimation of autonomous vehicles”, organized by NIST, Berhampur during 20th -21st January 2024.
- Chairperson in seminar series "Dynamical Systems: Control and Theory" organized by Department of Statistics and Applied Mathematics on 6th April 2024

Academic Visits Abroad:

S.NO	EVENT	Month /DATE	COUNTRY
1	6 th ICSA International Conference Institute of Mathematical Statistics. Presented paper entitled, General Bulk Queuing 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 queuing system with gated service”	2012	Kuwait University, Kuwait
4	First workshop on Graph theory, Combinatory 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 DVV-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 Engineering 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 Bharathidasan 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 Bharathidasan 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.
- Resource Person at 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, Organized by CSIR, Summer research training 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 10th August 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
- Resource person in Skill development programme,” Advances in data driven statistical applications and Computational techniques, organized by Bharathiar University, Design of Statistical models using Machine Learning Techniques on 13/2/2021
- Resource person in RUSA, organized by Bharathiar University, Design of Statistical models using Machine Learning Techniques on 14/2/2021
- Invited talk on Machine Learning in the real time scenario in Seminar organized by Sethu college on 20/2/2021
- Invited talk on Fuzzy Optimization Techniques in the Seminar organized by Mahatma Gandhi University, Kerala on 20/2/2021
- Resource person for National Level Virtual Faculty Development Program on Agile Mathematical Tools for Modern world during 10-7-2020 to 23-7-2020 , organized by Rathnam College of Arts and Science, Coimbatore
- Delivered an invited talk on, “Optimization models for real time applications”, in “Forum on Stat Math Facts”, organized by Department of Statistics and Applied Mathematics, Central University of Tamil Nadu, on 1st August. 2020.

- Resource person for the webinar on Mathematical Methods in Soft Computing Organized by PKR Arts College for women, 28/9/2020.
- Resource Person for the workshop on Mathematical Modelling and its real time applications using R organized by VIT, Chennai on 16th October 2020.
- Session Speaker in Faculty Development Programme on Research Perspectives in Machine Intelligence and Computing, organized by Sairam Institute of Technology, Chennai, 27-31 October 2020
- Resource person for two day Hands on Technical workshop on Latex and R Programming software organized by Srimad Andavan Arts and Science college, Trichy during 20-11-2020 and 21-11-2020
- Resource person for five days online AICTE Training and Learning(ATAL) faculty development programme on Bio inspired Computing in Deep Learning Architecture, organized by SRM University, titled Nature –Inspired Meta-Heuristic Optimization Techniques to Fine tune Deep Neural Networks, during 2/11/2020 to 6/11/2020
- Invited talk in National Level e workshop on R programming and its applications organized by MS University, Tirunelveli during 17-18 December 2020.
- Resource person for International Webinar on Statistical Applications in clinical trials organized by MS University, Tirunelveli on 7th December 2020.
- Keynote speaker for a webinar on Role of Mathematics in Engineering, organized by Dyananda College of Engineering, Bangalore on April 30,2021
- Resource Person for the webinar on Optimization techniques in real time scenario organized by PKR college of Arts for women, Erode on 31st August 2021
- Invited talk on “Statistical analysis using ML techniques” in Ten Days Skill Development Certificate Course on "Advances in Data-Driven Statistical Applications and Computational Techniques" during 12.02.2021 to 21.02.2021, organized by Bharathiar University, Coimbatore.
- Invited talk on “Design of Statistical Models using Machine Learning Techniques & Real time applications using R” in Ten Days Skill Development Certificate Course BEICH,RUSA 2.0 during 12.02.2021 to 21.02.2021, organized by Bharathiar University, Coimbatore.
- Delivered a special lecture on, “Study of face recognition using statistical techniques”, in “Virtual Celebration of National Statistics Day”, organized by Department of Statistics and Applied Mathematics, Central University of Tamil Nadu, on 29th June, 2021.
- Resource Person on for a webinar on Key trends of Machine Learning in 2021 organized by Sethu Institute of Technology, Virudhunagar on 20-2-2021
- Resource person in National Webinar Series on Fuzzy Optimization techniques in real time scenario organized by Mahatma Gandhi Government Arts College, MAHE on 20th February 2021.
- Invited talk for DST Purse Phase II National webinar on research advances in Applied Mathematics, titled Machine Learning Techniques-A Mathematical approach organized by Bharathiyar University, March 22-24,2021
- Resource Person for the Faculty Development Programme on Advanced Research Tools organized by SSS Jain college for women, Chennai on 31 -3-2021
- Resource Person for the webinar on Mathematics with fun organized by RMD college, Chennai on 11th May 2021
- Invited talk on “Indian Heritage and culture”, orientation program organized by VIT, Chennai on 7th September 2021.
- Delivered a talk on Mathematics with fun, organized by SVCE, on 22nd September,2021
- Resource Person for UGC online refresher course on Statistical Techniques for Machine Learning organized by Bharadidasan University, Trichy on 23-09-2021
- Keynote speaker in conference on contemporary Mathematics and Applications, titled Fuzzy Optimization in real time scenario organized by DG Vaishnav college, Chennai during 20-10-2021 to 23-10-2021
- Keynote speaker in National Conference on Contemporary Mathematics and Applications (NCCMA 2021) titled “Fuzzy Optimization in real time scenario, on 22nd October 2021 organized by Dwaraka Doss Goverdhan Doss Vaishnav College, Chennai
- Delivered a talk on Fuzzy Sets and Fuzzy Logic; Complex analysis organized by Srikrishna Adithya college of Arts and Science, Coimbatore on 29th October 2021

- Resource Person in the Faculty development programme on Biostatistics in Life Science Research, organized by Thassim Beevi Abdul Kader college of women, on 8-9 November, 2021
- Resource person in the Srinivasa Ramanujam Math Forum, titled Fuzzy Optimization organized by SASTRA University on 26th November 2021.
- Resource person for the Lecture Series in Mathematics, titled Optimization Algorithms organized by Saveetha University on 8th December 2021
- Resource person in National Level Webinar on Machine Learning Techniques in real time scenario organized by DB college, Thalayolaparambu on 22 December 2021.
- Resource person in National webinar on Statistical Modelling-Computational Intelligence, organized by National Institute of Technology on 6th December 2021
- Delivered a lecture on Galois fields and Rings organized by Amrita School of Engineering on 18th January 2022
- Delivered online special lecture series (10 hrs) on “Statistics and Research Methodology”, organized by Department of Law, CUTN from 21-25 February 2022
- Delivered an Invited talk on Role of Mathematics in real time scenario organized by RMK college on 7th March 2022
- Resource person in the workshop on Applications of Stochastic modelling using Software entitled “Hidden Markov Models using R and its applications, organized by MSU from 21-26 March 2022.
- Resource person in the workshop on Recent trends in Research, Selection and application of Statistical tools, entitled Selection of Statistical tools organized by Kumararani Meena Muthiyah college of Arts and Science, 9 April, 2022.
- Resource Person in the Webinar entitled Applications of Operations Research, organized by Jeppiaar Institute of Technology, 18 June 2022.
- Resource person for FDP on Statistics for Data Science and Machine Learning, 3-5 August, 2022, organized by Saranganathan college of Engg, Trichy
- Invited talk on Machine Learning Algorithms and external lab examiner 14-16 December 2022, at the Department of Statistics and Applied Mathematics, Bharathidasan University
- Invited talk on Role of Statistics in Artificial Intelligence revolution and Motivational training on breaking down the psychological barriers to Lean, Learn and succeed, from 17/3/2023 – 18/3/2023, organized by the Department of Statistics, Bharathiyar University, Coimbatore.
- Invited speaker in the International Conference on Applications emerging trends in Mathematical Science on Fuzzy Optimization Algorithms for real time applications, 26th April 2023, organized by the Department of Mathematics, Noorul Islam Centre for Higher Education, Kumarakoil, Tamilnadu.
- Delivered an invited talk entitled “Implementation of Artificial Techniques to mitigate child trafficking and child abuse”, in the DST-SERB sponsored International conference on Recent trends in Stochastic Modelling and its applications during June 15-17, 2023.
- Resource person for FDP on “Stochastic Processes”, at VIT Chennai, 22-26 May 2023
- Resource person in two days workshop on SageMath organized by the Department of Mathematics, Dr.MGR Educational and Research Institute, Chennai during 22-23, July 2023
- Resource person in Statistical Modeling and Computational Intelligence organized by the Department of Mathematics, PKR Arts College for Women, on 14th August 2023
- Resource person in one day seminar on “Role of AI in real time scenario”, organized by the Department of Mathematics, DBT star college scheme, Rathinam College of Arts and Science on 29th January 2024.
- Delivered an invited talk in the DST SERB sponsored workshop-Quantum Leap: Transitioning to Quantum Computing”, organized by the Department of Applied Mathematics, Bharathiar University, during 30th & 31st January 2024.
- Resource person in the National Seminar on Statistical Applications in recent trends organized by the Department of Statistics, 16th organized by St. Joseph College, Trichy on 16th February 2024.
- Resource person in the Hands on Training program – Python programming organized by the Department of Mathematics, ADM college for Women, Nagapatinam on 23rd February 2024.
- Resource person and delivered a lecture titled 'Quantitative Data Analysis Techniques', organized by the Department of Media and Communications, on 13th March 2024.

- Invited talk on “Drowsiness detection system using Deep Learning”, in the International Conference on Statistical Modelling and its applications-ICSMA-2024 organised by the Department of Statistics, Dwaraka Doss Goverdhan Doss Vaishna College, Chennai during 14th and 15th March 2024
- Resource person and delivered a Special Lecture on "Parametric and Non-Parametric Testing" organized by Tourism and Hospitality Department, CUTN on 2nd April 2024
- Invited talk hosted by Dr. V. Dillibabu, DRDS, Scientist, DRDO, Ministry of Defense, for school students after 12th Standard entitled “Arts and Science Colleges & Carrier Opportunities” on 27th April 2024.
- Invited talk on “Ethics in Research”, organized by Centre for Research and Consultancy, Hindustan Institute of Technology and Science, Chennai on 5th June 2024.
- Resource person for the one-week Faculty Development Programme on Mathematical Foundation for AI, ML and Data Science, organized by SRM Institute of Science and Technology, Chennai 11th -19th June 2024
- Invited talk on “Role of Statistics in real time scenario”, organized by Sample Survey and Analysis wing, Sacred Heart College, Kerala on 29th June 2024.
- Resource person in FDP on Real-Life application on Mathematics and Actuarial Science, organized by Crescent Institute of Science and Technology during 25-30 July 2024.
- Resource person in FDP on Exploring new horizons in Mathematical Research, organized by College, Tamil Nadu during 19-24 August, 2024
- Resource person for the expert talk on “Recent Trends in Machine Learning and its applications” organized by SRMIST, Chennai on 28th September 2024
- Resource Person in Two days FDP on Emerging Trends in Mathematical Research, organized by St. Joseph College of Engineering, during 8th November to 9th November 2024.
- Resource person in two-week Capacity Building Programme on Academic Writing and nuances of Research Publications for Faculty Members in Social Sciences, organized by CUTN, during 6th November to 17th November, 2024.
- Delivered an invited talk on International Workshop & International Workshop and Conference and on Mathematical Techniques for Machine Learning and Quantum Computing, organized by Department of Mathematics, The Gandhigram Rural Institute (GRI), Ministry of Education, Govt. of India, Gandhigram – during 02-07 December 2024.
- Resource person under the Lecturer Series Programme entitled Implementation of Lagrangian Decomposition Algorithms to dynamic optimization models and its applications and Fuzzy optimization techniques in real time scenario, in the Department of Statistics, Pondicherry University, Puducherry on March 21, 2025.

Organizer/Convenor @ CUTN:

- Organizer of STATMIND-online Quiz conducted at Central University of Tamil Nadu 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 Central University of Tamil Nadu on October 3, 2020
- Convenor for National Workshop on Statistical Computing using R at Central University of Tamil Nadu during September 15-17, 2021
- Editor for SAM Newsletter – Infinity times V2, 2021
- Convenor of International Webinar on Applications of Machine Learning Techniques at Central University of Tamil Nadu, April 25-26, 2022.
- Convenor for the National Statistics Day organized at CUTN, June 29, 2022
- Organizing committee member in “Two day Climate change conference”, July 20-21, 2022 at CUTN-STRIDE
- Convenor for the International webinar titled Bayesian Networks in real time scenario, December 12, 2022.

- Convenor for the International Webinar titled Information Technology(IT) Journey from Data to Truth by Prof. Paul Manuel Department of Information Science Kuwait University, Kuwait on April 28, 2023
- Convenor for Stat Math Quiz programme for PG students of CUTN on July 28, 2023
- Committee member in International Women's day organized by ICC, CUTN, 8th April 2024
- Convenor of the "Two-day Training program on Digital Literacy focussing on skill development and awareness on Higher education for rural youth of Thiruvavur", sponsored by RGNIYD during 4th -5th March 2024
- Co-Convenor of the "Two Day Training Programme on Enhancing Mental Health for Rural Youth" sponsored by RGNIYD during 1st -2nd March 2024
- Convenor of inaugural of STATMATH Data Analytics Club and International Webinar on "Mathematics and Data Analytics" on 14th April 2024.
- Convenor for STATMATH Club seminar on Survival Analysis, student seminar series on 29th July, 2024
- Convenor for STATMATH Data Analytics Club -SAM-Hands on training session on Data Analysis using SPSS during 12-14 August, 2024.
- Convenor for STATMATH Data Analytics club-SAM-Data Analysis using Python on 9th October 2024.
- Mentor and Supervisor for Internship students from Nehru Memorial College, Trichy from 12th May 2025 to 12th June 2025.
- Convenor for Facilitation workshop for Swayam courses on 15th May 2025 at CUTN
- Convenor for ICSSR sponsored National seminar on Indian council of social science research social dynamics and mental health of transgender youth - issues, challenges and prospects on 8th September 2025 at CUTN.

Organizer /Convenor in other Institutes:

- 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

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 organized by Apollo First Aid and Basic Cardio Pulmonary resuscitation on 18 July 2018.
- Training on Virtual Platforms organized 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 Bharathidasan 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 Bhopal
- 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
- Doctoral Committee member and external examiner for Ph. D scholars (2021) in Anna University, SRM University, MSU & Vellore Institute of Technology
- Mentor for MOOC in SAM department @CUTN from 2021 onwards
- BOS member for Computer Science department at CUTN -2021, at MSU, Srimad college of Art and Science 2021
- Member for DVV for SSR-NAAC in IQAC-CUTN during 2021-2022
- Doctoral committee member for Anna University, VIT University, SRM University, Manonmaiam Sundaranar University
- Member of Internal Audit Gender Committee at Central University of Tamil Nadu, 14th September 2021
- Designed syllabi for PG and Ph. D courses at Central University of Tamil Nadu, 2021
- Parents-Teachers coordinator for the Department of Statistics and Applied Mathematics, Central University of Tamil Nadu, 2020 to till date

- Department Coordinator for Swachhata Pakhwada 2021 to till date –Department of Statistics and Applied Mathematics, Central University of Tamil Nadu.
- Supervisor for final year M. Sc students project –2021 to till date
- Time table coordinator –Odd semester 2021 at Department of Statistics and Applied Mathematics, Central University of Tamil Nadu
- Research Advisory committee member for Ph.D research scholar, Department of Computer Science, CUTN
- External DC member for Ph. D candidate, Mepcoschlek college under Anna University, on 29th September, 2021
- BoS member for the Department of Computer Science, CUTN from 2021-2024
- DC member of Ph. D candidates of VIT, Vellore and SRM Institute of Science and Technology
- Member of Grievance Redressal committee for students at CUTN,2021
- Member of Data Validation and Verification of NAAC 2021 at CUTN
- Admission committee member for SAM department, CUTN 2021
- Research Advisory committee member for Ph. D Scholar, Department of Statistics and Applied Mathematics, CUTN
- Department MOOC coordinator 2022
- Chief Guest of our Annual Association meet Numera'22, organized by Ethiraj College for Women on 7th March 2022.
- BoS member for the Department of Statistics, MSU from 2021-2024
- Member of NEP committee, 27-28 May 2022
- Member of International Day of Yoga, 21st June 2022
- Purchase committee member of CUTN with effect from May2022
- RAC member for SAM research scholar May 2022
- Admission committee member for the department of Statistics and Applied Mathematics,2022 at CUTN
- Ph. D Viva Voce examiner for Anna University scholar on 11th August 2022.
- Department coordinator for Swachh Bharat Abhiyan initiative- “Go green to get India clean”, 21st September 2022
- Participated in International workshop on Integrated approaches of Stochastic Modeling and data science for sustainable development, organized by SV University, 7-11 September 2022.
- RAC member for Ph. D scholar, Department of Education, CUTN, 2022.
- Participated in Happiness Workshop (Positivity and Optimism) conducted by the Centre for Happiness, CUTN on 28th October 2022.
- BOS member in Takshashila University, 2022.
- Selection committee external expert member for project proposal, BECH-RUSA 2.0 organized by Bharathidasan University, Trichy
- BoS member at PSG College of Arts and Science, attended
- BoS meeting on 7th January 2023 at Statistics Department, Coimbatore.
- AARAMBH University Cultural committee member conducted on 4th May 2023
- BoS member at PSG College of Arts and Science, attended BoS meeting on 3rd June 2023 at Statistics Department, Coimbatore.
- BoS member at Manonmaniam Sundaranar University attended BoS meeting on 3rd June 2023 at Statistics Department, Tirunelveli.
- BoS member at Bharathidasan University attended BoS meeting on 3rd June 2023 at Statistics Department, Tirunelveli.
- DC member at Anna University, External Ph.D Viva Voce examiner and VIT Vellore – 2023
- Ph.D Viva Voce Examiner at Anna University,Panruti on 10/8/2023
- Expert member for the project evaluation-Final review under RUSA, Bharathidasan University on 8/9/2023
- Stage committee member for orientation programme GENESIS 2023 during 15/10/2023 and 17/10/2023
- DC member for SRM University & RMK-Anna University, BoS Member-Mathematics for Takshashila University, Ph.D Viva examiner at Annamalai University, July 2024.
- Admission committee member at Central University of Tamil Nadu, from 2021-2024

- Swayam-UGC courses, SPOC, Central University of Tamil Nadu
- Head of the Department from 21st August 2024 onwards.
- Ph. D Viva Voce examiner for Bharathiar University-Sep.2024 and SRM University-August-2024
- Convocation committee member from 2022-2024 at CUTN
- Attended Program on Women Leaders shaping Academic Excellence on 13th December 2024.
- Attended the Annual International conference on Multi-disciplinary research at IIT Madras, on 15th December 2024
- Delivered an Invited talk and acted as Chief Guest at INFINITOK25 at Department of Mathematics, Gandhigram Rural Institute on 20-03-2025.