



**Dr.M.Krishnaveni
Assistant Professor(SG)**

Dr. M.Krishnaveni is a Assistant Professor(SG) of Department of Computer Science, Avinashilingam University for Women, Coimbatore. She has 6 years of research experience working as a researcher in Naval Research Board, Defence Research Development Organisation, Ministry of Defence. She was been a consultant for Military related application project. She has published several papers in her research specialization with an overall count of about 71 both nationally and internationally. She focuses on research and experimental processes with the use of digital technologies such as: MATLAB, Computer Science, Biological computation along with machine intelligence and real-time physical computation. She also acts as a resource person and holds national and international funded research projects which comes under University Grants Commission (India) and Department of Science and Technology and DRDO-NPOL. She is a recipient awards such as bestyoung teacher award IASTE 2017,best NSS Programme officer award ,NYLP 2016,Goverment of India

Academic Qualifications

Research projects

Technical Knowledge

Teaching&Research Experience

Publications

Professional Development Activities

Invited Talks

Abroad Visits

Awards / Prizes

Contacts

Academic Qualifications

Avinashilingam University for Women, Coimbatore, India
Ph.D (Computer Science)

Bharathiar University, Coimbatore, India
M.Phil (Computer Science)

Bharathiar University, Coimbatore, India
M.Sc (Advanced Communication Systems)

Bharathiar University, Coimbatore, India
M.Sc. (Computer Science)

Avinashilingam University for Women, Coimbatore, India
B.Sc (Computer Science & Computer Applications)

Area of Interest

- Image Processing and analysis
- Neural Networks
- Data Mining and Warehousing.
- Advanced Networking.
- Pattern recognition

Specialization

- **Image analysis and Processing, Speech and Signal Processing, Computational Intelligence**

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Research projects

International Collaboration

Title : 'Investigating Global warming effect based on texture of icy lake Surface condition from Satellite imagery'

Collaborator : University of Stuttgart, Germany

Sponsor : DST-DAAD (PPP 2011)

Amount : Rs.4,41,000/-

Duration : August 2011-July 2013, 2 years

Position held : Visiting Scientist

Sponsored Research and Development Project

Title : **Core Research Grant for Artificial Intelligence (DST-CURIE-AI, Phase - II), AAI Start-up Programme**

Sponsor : Department of Science and Technology, Govt. of India

Amount : Rs. 27,80,000/-,

Duration : March 2021 – Sep 2023, 2 years 6 Months

Position held : Faculty In-Charge

Title : **Centre for Machine Learning and Intelligence, an establishment of DST-CURIE-AI Facility**

Sponsor : Department of Science and Technology, Govt. of India

Amount : Rs. 70,00,000/-,

Duration : April 2019 – March 2020, 1 year

Position held : Co-Coordinator

Title : **'An algorithm for the demarcation of ocean wakes from SAR imagery of rough sea condition'**

Sponsor : Contract for Acquisition of Research Services (CARS), Naval Physical and Oceanographic Lab (NPOL), DRDO, Cochin

Amount : Rs. 9,73,500/-,

Duration : August 2017 – August 2018, 1 year
 Position held : Co- Investigator

Title : **‘Technology development for the support and improvement of speech – language impaired people’**

 Sponsor : DST –SERB
 Amount : Rs.28,28,000/-
 Duration : 2017-2021, 4 years
 Position held : Investigator

Title : **Investigation on view based methodological approaches for Tamil Sign Language recognition**

Sponsor : UGC (BSR-Startup Grant)
 Amount : Rs.6,00,000/-
 Duration : 2014-2016, 2 years
 Position held : Investigator

[**BACK**](#)

Title : **‘Automatic Tamil voice recognition browser using continuous hidden markov model for visually impaired people’.**

Sponsor : UGC (Major Research Project)
 Amount : Rs.10,36,000/-
 Duration : Feb 2010-Feb 2013, 3 years
 Position held : Co –Investigator

Technical Knowledge

Windows Administration

- WINDOWS 2007 and administration.

Network Administration

- Configuration and Administration of LAN

Professional skills

Operating System : Windows, UNIX, DOS, LINUX
 Languages : C, PASCAL, COBOL, FORTRAN
 Web Designing Tools : HTML, ASP, XML, VB SCRIPT

Graphics Tools	:	Photoshop InDesign,3D MAX, Macro media fireworks, Dreamweaver
Tools	:	MATLAB 2018, Oracle
GUI	:	Visual Basic 6.0, VB .Net

Dissertations

Thesis in M.Phil

Association Rule Mining Between Peer To Peer Systems

Thesis in Ph.D

View-based signer independent approach for Indian Sign Language recognition using Extreme Learning Machine

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Project Development Experience

Project 1: A project done in Embedded Systems entitled “Remote Based Humidity Control” with duration of six months using MPLAB.

Project 2: Creation of webpage entitled “Online Examination for +2” with duration of six months using HTML, ASP and Java Script.

Project 3: A project done in Digital Signal Processing entitled “Adaptive Noise Cancellation Using LMS Algorithm” with duration of two months using MATLAB and C

Project 4: A project done in Embedded Systems entitled “Simulation of Logic Gates” with duration of one month using MPLAB.

Teaching and Research Experience

Teaching Experience

- Assistant Professor ,Department of Computer Science, AvinashilingamInstitute for home science and higher education for women, University from 2013 to till date.
- Lecturer, Department of Computer Science, AvinashilingamUniversity for Women from 2006 March to 2007 March.
- Handled Data Mining and Warehousing subject for M.Sc (Computer Science) students for period of 6 months. SNR AND SONS COLLEGE.

- Handled Relational Database Management Systems subject for MCA students for period of 2 months.
- Handled MSOFFICE for B.Sc for period of 2 months. GOVERNMENT ARTS COLLEGE.

Project Guidance

3 months projects(UG)	-	57
6 months projects(PG)	-	20

Research Guidance

M.Phil

Completed	-	2
Pursuing	-	1

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Other Experience

- Worked as Senior Sales Trainee for the period of one year at SILICON MARKETING (DSA OF ICICI BANK, PersonalLoans).

Research Experience

- Worked as a Research Assistant, Naval Research Board, DRDO, Department of Computer Science, Avinashilingam Institute for Home Science and Higher Education from March 2010 to March 2013.
- Worked in Armereb, DRDO, Department of Computer Science, Avinashilingam University for Women from September 2010 to November 2010.
- Worked as a Research Assistant, Naval Research Board, DRDO, Department of Computer Science, Avinashilingam University for Women from 2007 April to September 2010.

Patent

1. Artificial Intelligence based Mosquito Trap to Control Vector- Borne Diseases, Application No. - 202241021066 – Published, May 2022

Publications

Books published(5)

1. ஆண்ட்ராய்டு எனும் நான் பகுதி-I எளிய கூறுகள் (Dec 2024) Authors Dr.M.Krishnaveni, Dr.P.Subashini, Ms. B. Preethi மொழிபெயர்ப்பு ஆசிரியர்கள்: முனைவர் மு.கவிதா, திருமதி வெ. நர்மதா ,ISBN :978-93-93518-15-6.
2. ஆண்ட்ராய்டு எனும் நான் பகுதி - II மேம்பட்ட கருத்துருக்கள் (Dec 2024) Authors Dr.M.Krishnaveni, Dr.P.Subashini, Ms. B. Preethi மொழிபெயர்ப்பு ஆசிரியர்கள்: முனைவர் பொ. ராணி,முனைவர் மு.கவிதா, திருமதி வெ. நர்மதா ,ISBN :978-93-93518-16-3.
3. 'Tamil Sol Seyalihalinseymuraivilakkam-Thamizhil' ('Tamil Word Processors-a practical approach (in Tamil)), December 2011, IRIS Publications, Coimbatore, ISBN-9380543131.
4. "I am your Android – Volume I, Simple Concepts", Sept 2020, Notion Press, Chennai, ISBN - ISBN-10 : 1636330010, ISBN-13 : 978-1636330013.
5. "I am your Android – Volume II, Advanced Concepts", Sept 2020, Notion Press, Chennai, ISBN-10 : 1636330118, ISBN-13 : 978-1636330112.
6. "Nature Inspired Computing (NIC): Research and its Applications", Oct 2020, Notion Press, Chennai,ISBN-10 : 1636691013,ISBN-13 : 978-1636691015
7. "Prototype Experiments for Beginners: -Embedded Systems", OCT 2021,Notion Press, Chennai, ISBN:97816856380544

Book Chapters published(10)

1. Krishnaveni, M., Subashini, P., Dhivyaprabha, T.T., Gayathre, B., Manimegalai, K. (2023). Artificial Intelligence–Internet of Things Enabled Mosquito-Based Diseases Identification Trap. In: Hassanien, A.E., Zheng, D., Zhao, Z., Fan, Z. (eds) Business Intelligence and Information Technology. 2022. Smart Innovation, Systems and Technologies, vol 358. Springer, Singapore. DOI: https://doi.org/10.1007/978-981-99-3416-4_64.
2. M.B. Jennyfer Susan, P. Subashini, and M. Krishnaveni. (2023). Artificial Intelligence of Things for Smart Healthcare Development: An Experimental Review. In P. Swarnalatha & S. Prabu (Eds.), Handbook of Research on Deep Learning Techniques for Cloud-Based Industrial IoT, pp. 29-60. IGI Global. DoI: <https://doi.org/10.4018/978-1-6684-8098-4.ch003>

3. Subashini, P., Dhivyaprabha, T.T., Krishnaveni, M., Jennyfer Susan, M.B. (2023). Smart Intelligent System for Cervix Cancer Image Classification Using Google Cloud Platform. In: Ahad, M.A., Casalino, G., Bhushan, B. (eds) Enabling Technologies for Effective Planning and Management in Sustainable Smart Cities. Springer, Cham, PP. 245-281. https://doi.org/10.1007/978-3-031-22922-0_10.

Citation-1

4. Subashini, P., Krishnaveni, M., 'Artificial Intelligence Based Assistive Technology', ARTIFICIAL INTELLIGENCE THEORY, MODELS, AND APPLICATIONS, Taylor & Francis Group, CRC Press, 2022, ISBN: 978-1-032-00809-7, DOI: 10.1201/9781003175865, Pg. 217 – 240.

5. Dhivyaprabha, T.T., Subashini, P., Krishnaveni, M., Santhi, N., Ramesh Sivanpillai and Jayashree, G. (2021). An Intelligent Estimation Model for Water Quality Parameters Assessment at Periyakulam Lake, South India. In: FatosXhafa, Siddhartha Bhattacharyya, Naba Kumar Mondal, Jan Platos, Vaclav Snasel, Pavel Kromer, ed., *Elsevier Intelligent Environmental Data Monitoring for Pollution Management*, pp. 161-193. ISBN 978-0-12-819671-7. DOI: <https://doi.org/10.1016/B978-0-12-819671-7.00007-5>.

6. Subashini, P., Krishnaveni, M., Dhivyaprabha, T.T. and Shanmugavalli, R. (2019). Review on Intelligent Algorithms for Cyber Security. In: PadmavathiGanapathi, Shanmugapriya, D., ed., *Handbook of Research on Machine and Deep Learning Applications for Cyber Security*, pp. 1-22. ISSN: 1948-9730, eISSN: 1948-9749, DOI: <https://dx.doi.org/10.4018/978-1-5225-9611-0.ch001>.

7. Krishnaveni, M., Subashini, P. and Dhivyaprabha, T.T. (2018). An Assertive Framework for Automatic Tamil Sign Language Recognition System using Computational Intelligence. In: Hemanth, Jude, Balas, Valentina Emilia, ed., *Springer Nature Inspired Optimization Techniques for Image Processing Applications*, volume 150, pp. 55-87. E-ISSN: 978-3-319-96002-9, print ISBN: 978-3-319-96002-9, DOI: <https://dx.doi.org/10.1007/978-3-319-96002-9>.

8. 'Optimized weighted median filter using M-CPSO for efficient removal of impulse noise in Tamil sign language digital images', *Book Chapter in Advanced Engineering Research and Applications*, Research India Publications 2017, ISBN 978-93-86138-58-3.

9. 'Imagedenoising based on wavelet analysis for Satellite imagery', Wavelet Transform / Book 2, ISBN 979-953-307-385-8, INTECH publishers, Rijeka, Coratia .

10. 'Intelligent Classifiers Fusion for enhancing recognition of genes and protein pattern of inheritance diseases', *Systemic Approaches in Bio informatics and Computational systems Biology*, IGI Global Publishers, Hershey, USA, December 2011, pg. no. 220 – 248, DOI: 10.4018/978-1-61350-435-2, ISBN13: 9781613504352, ISBN10: 1613504357, EISBN13: 9781613504369 .

Monograph

1. Classification of ISL using image processing techniques',ISBN-13 978-3-639-71493-7 Scholars' Press OmniScriptum GmbH & Co. KG, Saarbrücken, Germany

Publications in International Journal (43)

1. Joy, M., & Krishnaveni, M. (2025). A Novel Multi-Stage Rule-Based Information Extraction Framework for Disease Outbreak Detection with Enhanced Geographical Granularity. *Engineering, Technology & Applied Science Research*, 15(6), 30130-30136.
2. Aiswarya Senthilvel, Krishnaveni Marimuthu K., and Subashini Parthasarathy (2025). "Optimized Weighted Non-Local Mean Filter for Enhanced Denoising and Improved Quality of Medical Images,". *Bulletin of Electrical Engineering and Informatics*, 14(5), 3611-3621. <https://doi.org/10.11591/eei.v14i5.9549> [Scopus] Impact Factor: 2.35
3. Senthilvel, A., Marimuthu, K., & Parthasarathy, S. (2025). Enhanced white blood cell and platelet segmentation: A particle swarm optimization-based chromaticity approach. *Pertanika Journal of Science & Technology*, 33(3), 1633–1660. <https://doi.org/10.47836/pjst.33.3.24>
4. Manju Joy, M. Krishnaveni: Ensemble-based Disease Outbreak Detection: Comparative Analysis of Health News Information Retrieval Techniques. *Int. J. Comput.* 23(2): 274-280 (2024) ,DOI 10.47839/ijc.23.2.3547
5. Manju Joy, M. Krishnaveni: Enhancing Disease Outbreak Detection: Named Entity Recognition with Fine-Tuned Distilbert, *Journal of Theoretical and Applied Information Technology*, Vol. 102 No.10 (2024).
6. Sudha,B., Krishnaveni,M. & Sumathi, S. **Translation of Gene Expression Data Into Personalized Treatment in Cervical Cancer: Machine Learning Approach.** *Indian J Gynecol Oncolog* 22, 64 (2024). <https://doi.org/10.1007/s40944-024-00831-y>
7. Jennyfer Susan M B, Subashini P, Krishnaveni M, Indhumathi T, "Detection of Specular Reflection from Smart Colposcopy Image using RGB Color Space and Convolutional Neural Network," *International Journal of Engineering Trends and Technology*, vol. 71, no. 10, pp. 29-38, 2023. Crossref, <https://doi.org/10.14445/22315381/IJETT-V71I10P204> (Scopus)
8. Mohana, M., Subashini, P., & Krishnaveni, M. (2023). Emotion Recognition from Facial Expression using Hybrid CNN-LSTM Network. *International Journal of Pattern Recognition and Artificial Intelligence*. VOL. 37, NO. 08 <https://doi.org/10.1142/S0218001423560086> (Impact factor: 1.5, Scopus and Web of Science indexed)
9. Manjutha. M., Subashini. P., and Krishnaveni. M. (2020), "Acoustic Analysis of Formant Frequency Variation in Tamil Stuttered Speech," *Journal of Advance Research in Dynamical and Control Systems*, Vol.12, No. 07, 2020, pp.2934-29442, ISSN:1943-023X, DOI:10.5373/JARDCS/V12SP7/20202438 (Peer Reviewed)

<https://doi.org/10.1504/ijcistudies.2022.123347> (Group-1)

10. Manjutha. M., Subashini. P., and Krishnaveni. M. (2020), “Acoustic Analysis of Formant Frequency Variation in Tamil Stuttered Speech,” *Journal of Advance Research in Dynamical and Control Systems*, Vol.12, No. 07, 2020, pp.2934-29442, ISSN:1943-023X, DOI:10.5373/JARDCS/V12SP7/20202438 (Peer Reviewed)
11. M. Manjutha, P. Subashini, M. Krishnaveni, (2019),”Vocal Tone Analysis for Identification of Stuttering Levels based on Tamil Syllable”,*International Journal of Recent Technology and Engineering (IJRTE)*, Vol.8, No.2, ISSN:2277-3878, Pp.4472-4483. DOI: 10.35940/ijrte.B3211.078219.
12. B. Preethi, P. Subashini, M. Krishnaveni. Wireless Based CO2 Monitoring System for Mushroom Cultivation. *IJRAR - International Journal of Research and Analytical Reviews (IJRAR)*, Vol. 6, Issue 1, March 2019, pp. 552-557. E-ISSN: 2348-1269, P-ISSN: 2349-5138. <http://www.ijrar.org/papers/IJRAR19H1089.pdf>, impact factor 5.75.
13. P. Subashini, T.T.Dhivyaprabha, M. Krishnaveni, G. VedhaViyas. Motility Factor Based Optimized Q-learning Algorithm for Intelligent Walking Cane. *IJRAR - International Journal of Research and Analytical Reviews (IJRAR)*, Vol. 6, Issue 1, March 2019, pp. 532-539. E-ISSN: 2348-1269, P-ISSN: 2349-5138. <http://www.ijrar.org/papers/IJRAR19H1086.pdf>, impact factor 5.75.
14. Dhivyaprabha,T.T., Subashini,P. and Krishnaveni,M.(2018). Synergistic Fibroblast Optimization:A Novel Nature Inspired Computing Algorithm. *Springer Frontiers of Information Technology & Electronic Engineering*, vol.19, no.7, pp.815-833. ISSN:2095 9184(print),2095 9230(online), DOI: <http://dx.doi.org/10.1631/FITEE.1601553.indexed> in SCI, Impact factor: 0.910.
15. TT Dhivyaprabha, P Subashini, M Krishnaveni, N Santhi, Ramesh Sivanpillai, G Jayashree(2018), “A novel synergistic fibroblast optimization based Kalman estimation model for forecasting time-series data”,*Evolving Systems*, Springer Berlin Heidelberg, ISSN: 1868-6486, Pp.01-16.
16. M. Krishnaveni, P. Subashini , T.T. Dhivyaprabha(2017) ‘Synergistic Fibroblast Optimization Based Boundary Detection in Tamil Sign Language Images’, *International Journal of Science and Technology*, ISSN: 2454-5880, Vol.3 Issue.2, Pp.193-208.
17. P Subashini, T TDhivyaprabha, M Krishnaveni,(2017), “Cellular Organism based Particle Swarm Optimization Algorithm for Complex Non-linear Problems”, *International Journal of Science and Technology*, ISSN: 2454-5880, Vol.3 Issue.2, Pp.209-229.

18. Manjutha M, Gracy J, Dr P Subashini, Dr M Krishnaveni, (2017), "Automated Speech Recognition System – A Literature Review (Extended Version)", International Journal of Engineering Trends and Applications (IJETA),ISSN: 2393-9516 Vol.4 Issue.2, Pp.42-49, Mar-Apr 2017.
19. M.Krishnaveni, P.Subashini,&T.T.Dhivyaprabha, (2016). Improved Canny Edges using Cellular based Particle Swarm Optimization technique for Tamil Sign Digital Images. International Journal of Electrical and Computer Engineering (IJECE), 6(5), ISSN: 2088-8708. Scopus Indexed.
20. M Krishnaveni, P Subashini, TT Dhivyaprabha, "PSO-based Optimized Canny Technique for Efficient Boundary Detection in Tamil Sign Language Digital Images," International Journal of Advanced Computer Science and Applications (IJACSA), ISSN : 2156-5570(Online), Vol. 7, 2016, pp. 312-318, Indexed by Thomson Reuters.
21. M. Krishnaveni , P. Subashini , T.T.Dhivyaprabha, 2015, ' Efficient Removal of Impulse Noise in Tamil Sign Language Digital Images using PSO Based Weighted Median Filter ', International Journal of Applied Engineering Research, (IJAER), ISSN 0973-4562 Volume 10, Number 19 (2015), November 2015, pp 40474-40480, Scopus Indexed.
22. B.Savitha, Dr.P.Subashini, Dr.M.Krishnaveni, 2014, "An Experimental Study on Cervical Cancer Cell Detection using Computer Vision Based techniques", Proceedings of the IEEE Sponsored 9th International Conference on Intelligent Systems and Control (ISCO)2015, Volume-29th-10th January 2015, pg:1236-1244 ISBN:978-1-4799-6479-6
23. B.Savitha, P.Subashini, M.Krishnaveni, 2014," Two phase holistic approach for Overlapping cells separation in 2D Pap smear images", Journal of Theoretical and Applied Information Technology, Vol. 67 Issue 1, ISSN: 1992-8645, pg:129-135, September 2014, SCOPUS INDEXED, Impact Factor:1.71.
24. M.Krishnaveni,P.Subashini, M.Poovizhi, 2014, "Mapping of Lake Surface Covers using Pixel Intensities for Monitoring Seasonal Ice Development", Journal of Theoretical and Applied Information Technology, Vol. 66 No.3, ISSN: 1992-8645, Pg.No:839-843, August 2014. (Scopus Indexed)
25. M.Krishnaveni, P.Subashini and A.Vanitha, 2014, "A Bayes fusion method based ensemble classification approach for Brown cloud application", International Journal of Advanced Computer Research, (ISSN (print): 2249-7277 ISSN (online): 2277-7970), Vol-4 No.-1 Issue-14, PP-299-304, March 2014, Impact factor: 1.863

26. B.Savitha, P.Subashini, M.Krishnanveni, 2014, 'Selection of Optimal combinational features for identification of Cervical Cancer cells using Support Vector Machine', Australian Journal of Basic and Applied Sciences, ISSN: 1991-8178, January 2014, pg: 583-589. (Thomson Reuters), Impact factor – 0.32.
27. P.Subashini, M.Krishnaveni, A.Vanitha, 2012, 'Classification of ship targets using neural classifiers on simulated SAR images', International Journal of emerging trends in engineering and development (IJETED), Issue 2 Vol 7, Nov 2012 , ISSN No.:2249-6149, pg. 543 - 550.
28. P.Subashini, M.Krishnaveni, 2012, 'Classification of ship targets using differential evolutionary algorithm in Extreme learning machine', International Journal of emerging trends in engineering and development (IJETED), Issue 2 Vol 7, Nov 2012 , ISSN No.:2249-6149, pg. 424 - 429.
29. V.Radha, Vimala.C, M.Krishnaveni 'Isolated Word Recognition System For Tamil Spoken Language Using Back Propagation Neural Network Based On LPCC Features' ,Computer Science & Engineering: An International Journal (CSEIJ), Vol.1, No.4, October 2011, DOI : 10.5121/cseij.2011.1401,Pg 1-11.
30. M.Krishnaveni, V.Radha 'Performance Evaluation of Statistical Classifiers Using Indian Sign Language Datasets' International Journal of Computer Science, Engineering and Applications (IJCSEA) Vol.1, No.5, Pg No : 167-175,October 2011.
31. P. Subashini and M. Krishnaveni, Mr. VijaySingh, (2011), 'Implementation of object tracking system using region filtering algorithm based on Simulink blocksets', International Journal of Engineering Science and Technology (IJEST), August 2011, ISSN : 0975-5462 Vol. 3 No. 8, Pg. No. 6744 – 6750, citation - 2.
32. P. Subashini and M. Krishnaveni, Mr. Vijaysingh, (2011), 'Image Deblurring Using Back Propagation Neural Network', World of Computer Science and Information Technology Journal, WCSIT, August 2011, ISSN: 2221-0741 Vol 1, No. 6, Pg. No. 277 – 282, Impact factor - 1.
33. M.Krishnaveni, V.Radha 'Quantitative evaluation of Segmentation algorithms based on level set method for ISL datasets', International Journal on Computer Science and Engineering (IJCSE), ISSN: 0975-3397 Vol. 3 No. 6 June 2011.
34. P. Subashini and M. Krishnaveni, (2011), 'Estimation of ship velocity by fusion of radon transformation with wavelet filters using SAR images'. International Journal of Computer

Science and Engineering Technology, IJCSET, March 2011, ISSN 2229-3345, Vol 2 No 4, pg. 117-125, citation - 1.

35. M.Krishnaveni, V.Radha“Improved Histogram based Thresholding Segmentation using PSO for Sign Language Recognition”, International Journal of Engineering Science and Technology (IJEST), ISSN : 0975-5462 Vol. 3 No. 2 Feb 2011Pg : 1014-1020.
36. P.Subashini, M.Krishnaveni, 2011, ‘Segmentation based multilevel wide band Compression for SAR images using coiflet wavelet’, International Journal for Image Processing (IJIP), Volume (5), Issue (2), February 2011, pg. 177-184, ISSN : 1985-2304, Impact Factor – 1.5.
37. G.PadmaVathi, P.Subashini, M. Krishnaveni, (2010), ‘A generic Framework for Landmine detection using statistical classifier based on IR images’, International Journal on Computer Science and Engineering (IJCSE), Vol. 3 No. 1 Jan 2011, pg. 254-261, ISSN : 0975-3397, Impact Factor – 0.583, citation -1.
38. G.PadmaVathi, P.Subashini,M. Krishnaveni, (2010), ‘A suitable segmentation methodology based on pixel similarities for landmine’, International Journal of Advanced Computer Science and Applications (IJACSA), Volume 1 No. 5 November 2010, pg. 88-92, ISSN- 2158-107X(Print), ISSN – 2156-5570(Online), Impact factor- 1.187, citation - 1.
39. M.Krishnaveni, V.Radha,”A Topological derivative based image segmentation for sign language recognition system using isotropic filter”, International Journal of Computer Science and Information Security, IJCSIS, Vol. 6, No. 3, pp. 041-045, December 2009, USA
40. M.Krishnaveni, P.Subashini, (2009),‘Classification of ship images by using Back propagation neural networks’ – UPA International Journal of Image Processing and Network Techniques, Volume 1, No.2 , pg.23-29, December 2009, ISSN No. 0973 – 7650.
41. M.Krishnaveni,Suresh Kumar Thakur, P.Subashini, (2009), ‘An optimal method for Wake detection in SAR images using Radon Transformation combined with Wavelet Filters’, Journal of Computer Science and Information security (IJCSIS), November 2009, pg. no. 60-66, ISSN No. 1947-5500, Impact Factor 0.423, citation - 2.
42. S.SanthoshBaboo, P.Subashini, M.Krishnaveni,‘Combining Self-Organizing Maps and Radial Basis Function Networks for Tamil handwritten Character Recognition’ – International Journal of ICGST-GVIP 2009, Egypt, ISSN: 1687-398X-print, 1687-3998-online, Volume-9, August 2009.
43. M.Krishnaveni, P.Subashini, (2009), ‘BPN Classification of Ship images by extracting Geometric features’ – International Journal of Image Processing and Networking Techniques, ISSN No. 0973 – 7650,Vol 2, No 1, June 2009, pg. No. 23-29.

Papers presented / published in International Conference (63)

1. Aiswarya, S., Krishnaveni, M., Subashini, P., Aathi Obusre, M., & Narendran, P. (2025). Automatic Detection of Erythrocytes for Sickle Cell Disease Identification Based on YOLOv8n Network. In M. Saraswat, R. Tiwari, M. Pavone, & M. Zaveri (Eds.), Proceedings of the International Conference on Computational Intelligence (ICCI 2024), Algorithms for Intelligent Systems. Springer, Singapore. https://doi.org/10.1007/978-981-96-4539-8_21
2. M.Krishnaveni, P.Subashini, R.Janani, R.Komalavalli, P.Prabhusundhar and G.T. Prabavathi,"Development of an Automatic Speech Recognition System for Irula Language: A Machine Learning Approach", 2025 3rd International Conference on Intelligent Systems, Advanced Computing and Communication (IASCC), Silchar , India, 2025, PP 817-822 doi:10.1109/ISACC65211.2025.10969160.
3. Sesan, D ; Dhanalakshmi, Jennyfer Susan, M B., Krishnaveni, M., Narmatha, T., Subhashini, P., Prabavathi T. (2025). IoT Enabled Indian Postal Sign Recognition System: Facilitating Communication Among Individuals with Hearing and Speech Impairments. In: Hassanien, A.E., Rizk, R.Y., Darwish, A., Alshurideh, M.T.R., Snášel, V., Tolba, M.F. (eds) Proceedings of the 11th International Conference on Advanced Intelligent Systems and Informatics (AISI 2025). AISI 2025. Lecture Notes on Data Engineering and Communications Technologies, vol 238. Springer, Cham. https://doi.org/10.1007/978-3-031-81308-5_36
4. Jayashree Ganeshkumar, Dr.M.Krishnaveni, ***“Understanding AI Decisions: An Empirical Evaluation of Explainable Models in Predicting Student Performance using Stacked Ensemble Technique,”*** Analytics Global Conference 2025, March 7-8, 2025
5. Jayashree Ganeshkumar, Dr.M.Krishnaveni, ***“Prediction of Students’ Performance in E-Learning Environment using Generative Adversarial Network Model,”*** 4th Edition of Mysuru Subsection Flagship International Conference (IEEE MysuruCon-2024), August 30-31, 2024.
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13. **P. Subashini**, M. Krishnaveni, T.T. Dhivyaprabha, R. Malini, V. Keerthika, G. Kaviya. (2023). A Contemporary Study on Solar Energy Applications and Evaluation in Real-Time Environment. *NCMRSI 2023: Proceedings of the National Conference on Multidisciplinary Research for Sustainable Innovations*, Coimbatore, pp. 138-150, ISBN: 978-81-931101- 6- 4.

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16. **P.Subashini**, M.Krishnaveni, M.Mohana, S.Aiswarya, 'STEM-ல் இந்தியபெண்களின்பங்களிப்பும் ஆரைமையும் - ஒரு அறிவியல் இலக்கிய ஆய்வு', International Conference on 'இலக்கியங்களில் பெண்களின் ஆரைமை' , 20th Oct 2021 Avinashilingam University, pp. 613-621, ISSN:2321 984X.

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63. N.Valliammal, M.Krishnaveni, P.Subashini, (2007), ‘A hybrid model for feature selection in mining Text Documents’ –Proceedings of International Conference on software

computing Techniques, Softech 2007, Avinashilingam university for Women, Coimbatore, January 2007.

Poster Publications

1. **Subashini P**, Krishnaveni M, Dhivyaprabha TT, Malini R, Keerthika V, Kaviya G. (2023). "A contemporary study on solar energy applications and evaluation in real-time environment". PeerefPoster), DOI: <https://doi.org/10.54985/peeref.2304p8181720>. Link: <https://www.peeref.com/posters/10413/a-contemporary-study-on-solar-energy-applications-and-evaluation-in-real-time-environment>

Papers presented / published in National Conference(10)

1. **P. Subashini**, M. Krishnaveni, T.T. Dhivyaprabha, M. Mohana, S. Divyasri. (2023). Artificial intelligence-based Totbot Application for Primary School Children. *NCMRSI 2023: Proceedings of the National Conference on Multidisciplinary Research for Sustainable Innovations*, Coimbatore, pp. 126-137, ISBN: 978-81-931101- 6 - 4.
2. M.Manjutha, J.Gracy, P.Subashini, M.Krishnaveni, (2017), 'Automated Speech recognition system – a literature review', National Conference on Computational methods, Communication Techniques and Informatics- NCCCI 2017, Gandhigram Rural Institute, Gandhigram, 27th Jan 2017, pg. 205-212, ISBN – 978-81-933316-1-3.
3. A.Vanitha, P.Subashini, M.Krishnaveni, (2012), 'Performance Evaluation of supervised classification algorithm on SAR ice imagery', National Conference on Computing and Intelligence Systems, D.G.Vaishnav College, Chennai, 12th – 13th Oct 2012, pg.102-106. ISBN – 978-81-905709-3-0.
4. M.Poovizhi,P.Subashini, M.Krishnaveni, (2012), 'Fusion based edge detection on SAR images by combining Wavelet transform and Canny operator', National Conference on Computing and Intelligence Systems, D.G.Vaishnav College, Chennai, 12th – 13th Oct 2012, pg.9-12. ISBN – 978-81-905709-3-0.
5. S.Saranya, P.Subashini, M..Krishnaveni, (2012), 'Filtering Speckle Noise in SAR images using Fuzzy Median Filters', National Conference on Computing and Intelligence Systems, D.G.Vaishnav College, Chennai, 12th – 13th Oct 2012, pg.5-8. ISBN – 978-81-905709-3-0.
6. M.Krishnaveni and V.Radha"Pixel wise Segmentation Approach for Sign Language Recognition system "Advanced Computing Technologies Proceedings of the National Conference on Advanced Computing Technologies Yesdee publishers, Chennai.

7. M.Krishnaveni and V.Radha“A Study on Tamil Speech Recognition System for Visually Impaired Internet Users”, National conference on Information and Communication Technology (NCICT-2010) organized by New Horizon College of Engineering, Bangalore on 23rd April 2010.
8. ‘M.Krishnaveni, P.Subashini, (2007), ‘Image enhancement using Radon transformation’ – Proceedings of National Conference on Information Systems and Computer Engineering-NICE 2007, RV College of Engineering, Bangalore, 5th-6th Oct 2007, pg. 75-81.
9. M.Krishnaveni, P.Subashini, (2007), ‘Classification of Tamil Handwritten Characters using modified RBF Networks’-Proceedings of National Conference on Data Mining & Its Applications, Gobi Arts College, Gobichettipalayam, March 2007.
10. M.Krishnaveni,G.Padhmavathy“ModifiedApriori Algorithm using Associated rule Mining for Peer to peer systems”, Presented and Published in the Proceedings of National Conference on emerging trends in Computing at Sri Vasavi College, Erode, February 2007.

Articles Published

1. ‘Urugumpaniyumathanabaayamum’ – Series of articles in VignanaChudar, Scientific monthly magazine, Saradalaya Press, Avinashilingam Education trust institutions, Coimbatore from January 2011, Reg. No. CB/017/2009-2011.
2. ‘Maatruthiranpadaithormanpatilkaniporiyinpangu– Series of articles in VignanaChudar, Scientific monthly magazine, Saradalaya Press, Avinashilingam Education trust institutions, Coimbatore from September 2010 to November 2010, Reg. No. CB/017/2009-2011.
3. ‘PadarnthuVarumPaasigal’ – Series of articles in VignanaChudar, Scientific monthly magazine, Saradalaya Press, Avinashilingam Education trust institutions, Coimbatore from Feburary 2009 to September 2010, Reg. No. CB/017/2009-2011.

BACK

Professional Development Activities

Training/Conferences/Workshops/Certification Courses Attended(49)

S. No.	Course/Conference/ Training	Organized By	Period
1.	International Webinar on 'Visual Surveillance based on Risk maps'	Department of Computer Science, Avinashilingam Institute for Home science and Higher Education for Women.	5 th November 2020
2.	National Virtual Seminar on Research Proposals Preparation	Internal Quality Assurance Cell, Avinashilingam Institute for Home Science and Higher Education for Women	9 th November 2020
3.	National Virtual Seminar on <i>"Assessment and Attainment of Outcomes in Outcome Based Education"</i>	Internal Quality Assurance Cell, Avinashilingam Institute for Home Science and Higher Education for Women	27 th October 2020
4.	Resource person in Workshop "How to tap funding agencies"	Sankara college of Science and Commerece, Coimbatore	02-03-2019
8.	Advances in satellite Remote processing for exploration of UW Target generated ocean surface features	NPOL, Kochi	12-03-2019
9.	Solar Decathlon Middle East 2018	Dubai Electricity and Water Authority, at Mohammed bin Rashid Al Maktoum Solar Park, Dubai, UAE	14 th -29 th November 2018

10.	Smart City Expo Casablanca, SCE 2018	Smart City Expo World Congress at Hyatt Regency Casablanca	18 th – 19 th April 2018
11.	Smart City Connect, Side event of SCE 2018	University of Hassan II Casablanca at Hyatt Regency Casablanca	20 th April 2018
12.	IEEE Women In Engineering panel on Women Leadership in Promoting Societal Development	International Conference on Renewable Energies Power Systems and Green Inclusive Economy 2018 (REPS & GIE) Casablanca	23 rd April 2018
13.	IEEE International Conference on Renewable Energy, Power Systems and Green Inclusive Economy, REPS&GIE 2018	University of Hassan II Casablanca	23 rd – 24 th April 2018
14.	Presentation of joint work of “e-learning platform” with Pr. AawatifHayar and Prof.P.Subashini	Live demo in e-douar living lab: smart inclusive ecological village, Casablanca, Morocco	23 rd April, 2018
15.	Refresher Course in Computer Applications	UGC-HRD Centre, Bharathiar University, Coimbatore	17 th Nov 2017 -07 th Dec 2017
16.	109th Orientation programme conducted	UGC-Academic staff college, Bharathiar university, Coimbatore	19 Aug-15 Sept 2015
17.	Attend the Master training Program	Teknoturf,Coimbatore	May to june 2014
18.	The Second International Conference on Computational Science, Engineering and Information Technology CCSEIT'12	Avinashilingam Institute for Home Science and Higher Education for Women ,Coimbatore	26 th -28 th October 2012
19.	“Research Ethics and post research methods “	AvinashilingamUniversity for Women	13 th -15 th September 2012
20.	Introduction to ENVI 4.8	AvinashilingamUniversity for Women	21 st – 22 nd June 2012
21.	IRIS colloquium May 2012	University of Stuttgart, Germany	16 th May 2012
22.	State Estimation and Multisensor Data fusion for Engineering Applications	PSG college of technology,coimbatore	10 th March 2012
23.	Introduction to IDL Programming (ENVI)	Avinashilingam University for Women	15 th -16 th 2011
24.	International Conference on Communication Technology and System design	AmritaVishwaVidyapeethamUniversity, Coimbatore	7 th -9 th December 2011
25.	International Conference on CompyuterScience,Engineering and Information Technology	ManonmaniamSundharanarUniversity, Tirunelveli	23 rd -25 th September 2011

26.	Research Ethics & Post Research Perspectives	Avinashilingam University for Women	10 th -11 th August 2011
27.	International Conference on Mathematics and Computer Science, ICMCS 2011	Loyola college, Chennai.	7 th – 8 th January, 2011
28.	International Conference on Computing	Avanced Computing Research Society at IDSA,Newdelhi	27 th ,28 th December 2010
29.	Path Finder - Explore, Experiment,Elucidate Research a colloquium 2010.	AvinashilingamUniversity for Women, Coimbatore	22 nd ,23 rd December 2010
30.	National workshop on “Medical Image and Signal Processing”	Dept. of ECE and Centre for Medical Electronics, AnnaUniversity, Chennai	23 rd – 24 th , Sept 2010
31.	ACM-W Conference on Women in Computing, A2CWIC’10	AmritaUniversity, Coimbatore	16 th – 17 th Sept 2010
32.	Workshop on “Biologically Inspired Computing”	VTU e-Learning Centre, Mysore by Visvesvaraya Technological University, Belgaum	7 th – 10 th June 2010
33.	IEEE International Conference on Computer and Automation Engineering, ICCAE 2010.	IACSIT, Singapore at Suntec City Convention centre, Singapore	26 th Feb – 28 th Feb 2010
34.	National Conference on Advanced Computing Technologies, NCACT 2010	AvinashilingamUniversity for Women, Coimbatore	19 th February 2010
35.	International Conference of ACM Bangalore chapter, COMPUTE 2010	ACM, India at Hotel Taj Residency, Bangalore	22 nd – 23 rd January 2010.
36.	IEEE sponsored International Symposium on ‘Innovations in Natural-Computing (INC-2009)	CochinUniversity for Science and Technology, Cochin	6 th December 2009
37.	Two day International Workshop on Bio-Inspired Computing	AvinashilingamUniversity for Women, Coimbatore	21 st -22 nd December 2009
38.	‘Educator’s Day 2009’	Chennai Trade center, Chennai National Instruments, Bangalore	6 th November, 2009
39.	‘Algorithm development with MATLAB for C and C++ programmers’	Hotel Le Meridian, Chennai Mathworks Inc., India.	8 th October, 2009
40.	International Seminar on ‘Computational Intelligence’	BharathiarUniversity, Coimbatore	30 th December, 2008
41.	Seminar on ‘Technical computing using MATLAB’	Cranes Software international, Bangalore	25 th July, 2008

42.	National Symposium on 'Research Methodologies and Techniques in Control, Communication and Signal processing'	RV College of Engineering, Bangalore	2 nd – 3 rd June, 2008
43.	National Conference on Information Systems and Computer Engineering-NICE 2007	RV College of Engineering, Bangalore	5 th -6 th Oct 2007.
44.	Workshop on MATLAB – Image Processing, Neural Networks	Avinashilingam University for Women, Coimbatore	25 th ,26 th August 2007
45.	One day workshop on Model-based design for Signal processing and Communications	Cranes Software International Ltd and Mathworks Inc. in Chennai.	22 nd May, 2007
46.	National conference on data Mining and its Applications	Gobi Arts & Science College,Gobichettipalayam	9 th ,10 th March 2007
47.	National conference on emerging trends in computing	Sri Vasavi college, Erode	2 nd March,2007
48.	Advanced Programming techniques in C	Government Arts College, Coimbatore	3 rd ,4 th 2006
49.	UGC Sponsored National level Conference on Biometrics (face identification and finger prints)	Erode Arts College, Erode	28 th , 29 th 2005
50.	PIC Microcontrollers	National Institute of Embedding Technology, Coimbatore	December –February 2003
51.	Communication skills and personality development	Col's Calibre Skills Enhancement Academy ,Coimbatore	August –September 2001

Training/Conferences/Workshops/SeminarOrganised

S.No	Title	Position held	Organized By	Period
1.	One day Skill development Programme on Advanced 3D Printing	Organizing secretary	Centre for Machine learning and Intelligence	10.04.2024
2	One day Skill development Programme on 3D Printing	Organizing secretary	Centre for Machine learning and Intelligence	25.03.2024

3.	Two day hands on workshop on Embedded systems and IoT	Organizing secretary	Hosted by AAI Start-up Programme and Centre for Machine learning and Intelligence	31.01.2024-01.02.2024
4.	one-day workshop on “Prototype Experiments for Beginners”	Organizing secretary	Hosted by AAI Start-up Programme and Centre for Machine learning and Intelligence, sponsored by DST-CURIE-AI	6 th February 2023
5.	one-day workshop on “Prototype Experiments for Beginners”	Organizing secretary	Hosted by AAI Start-up Programme and Centre for Machine learning and Intelligence, sponsored by DST-CURIE-AI	4 th November 2022
6.	3D Printing for Bio Science	Organizing secretary	Hosted by AAI Start-up Programme and Centre for Machine learning and Intelligence, sponsored by DST-CURIE-AI	14 th September 2022
7.	3D Printing for Home Science	Organizing secretary	Hosted by AAI Start-up Programme and Centre for Machine learning and Intelligence, sponsored by DST-CURIE-AI	23 rd February 2022
8.	Applications of AI and IoT in Farming	Organizing secretary	Hosted by AAI Start-up Programme and Centre for Machine learning and Intelligence, sponsored by DST-CURIE-AI	6 th August 2021

9.	Online Training Program on "Mobile App Development using Android"	Organizing secretary	Hosted by Centre for Machine learning and Intelligence, sponsored by DST-CURIE-AI	27 th Jan to 12 th Feb 2021
10.	Webinar on the topic of "Synopsys Simpleware Software for 3D Image Processing and Model Generation"	Organizing secretary	Hosted by Centre for Machine learning and Intelligence, sponsored by DST-CURIE-AI	25 th January 2021
11.	Webinar on the topic of "Google Certification online training program"	Organizing secretary	Hosted by Centre for Machine learning and Intelligence, sponsored by DST-CURIE-AI	4 th to 8 th January 2021
12.	Webinar on the topic of "G SUITE for education - A Research perceptive"	Organizing secretary	DST-CURIE-AI & Department of Computer Science	27 th October 2020
13.	Webinar on the topic of "Insights of G suite for Education".	Organizing secretary	DST-CURIE-AI & Department of Computer Science	23 rd October 2020
14.	International Webinar on "Relevance of Gandhiji's Message to present day world"	Organizing secretary	Avinashilingam Institute for Home Science and Higher Education for Women and Hassan II University, Casablanca	27 th August 2020
15.	Workshop on MATLAB	Organizing secretary and Resource Person	Centre for machine Learning and Intelligence, Avinashilingam Institute for Home science and Higher Education for Women	24.01.2020, 27.01.2020, 28.01.2020, 03.02.2020

16	5 th IEEE International Smart Cities Conference, ISC2 2019	Poster chair and member	GreenTic R&D Organization and University of Hassan II	14 th – 17 th Oct 2019
17.	Intra collegiate meet ‘TECHWINGS’	Organizing secretary	Department of Computer Science	September 2017
18.	Seminar on Opporunities in Assistive technology	Organizing secretary	DST-SERB	26th October 2016
19.	International Conference on Translational Cancer Research2015 (ICTCR 2015) “Cutting Edge Science in Cancer Research”	Member	The University Grants Commission & The U.S. Consulate, Chennai	14th -16th Dec 2015
20.	National Seminar on ‘Big Data Challenges and Opportunities-A Perspective	Member	The University Grants Commission	19th & 20th February, 2015
21.	Inter collegiate meet “CYBROZ 2015”	Organizing secretary	Department of Computer Science	January, 2015
22.	Inter collegiate meet “CYBROZ 2014”	Organizing secretary	Department of Computer Science	February 16th, 2014
23.	Intra collegiate meet ‘TECHWINGS’	Organizing secretary	Department of Computer Science	September 2015
24.	Intra collegiate meet ‘TECHWINGS’	Organizing secretary	Department of Computer Science	September 2023
25.	Organizing Secretary for the Power seminar	Organizing secretary	Department of Computer Science and ICTACT, Tamilnadu	12th Dec 2014

26	Organizing committee member in “Fourteen-Day Faculty Induction Programme(FIP) for Newly Recruited Teaching Faculty”	Organizing committee member	Internal Quality Assurance Cell, Avinashilingam Institute for Home Science and Higher Education for Women	Phase I: 02.12.2024 to 09.12.2024 Phase II: 24.1.2025
27	Multidisciplinary Consultant for CMLI	Multidisciplinary Consultant for CMLI		01.02.2025 - 31.01.2026

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Membership in Professional Bodies

- IEEE member – Membership number 93731254

Invited Talks(23)

1. Guest lecture on “**AI in IoT- A Practical Approach**”, Association Meeting in Krishnammal college of arts and science women on 13.07.2023.
2. Plenary Lecture on “Image Processing and Artificial Intelligence on Real time applications”, International Conference on Artificial Intelligence and Computer Vision : AICV’23, Marrakech, Morocco, 5th – 7th March 2023
3. “Integrated Approach in Science & Technology for Sustainable Future”, invited talk in Sikkim Manipal Institute of Technology held on 28th Feb 2022.
4. “Awareness on Artificial Intelligence”, invited talk in KG College of Arts and Science, Coimbatore held on 23rd Oct 2021.
5. ‘Artificial Intelligence based water management’, Regional Training Programme on “Change you water, Change your Life through Artificial Intelligence (AI)”, Avinashilingam University for Women, 26th Feb 2020.
6. ‘How to apply and get funds from funding agencies’, invited talk in Sankara College for Science and Commerce, Coimbatore held on 2nd March 2019.

7. 'Opening Source Mobile apps and platforms', invited talk in CREATTHON Smart City Connect, SCE 2018, Casablanca, Morocco held on 21th April 2018.
8. 'CreaCasa2018: THE SECOND Creathon on Urban Smart Mobility organized by Smart City Expo Casablanca, SCE 2018 held on 20th April 2018.
9. " MATLAB for solving research problems" in one day workshop organized by Dr.N.G.P arts and Science College,Coimbatore held on 31st July 2017.
10. "Carrier opporutinties in Computer Science" , in students association at Sri Sarswathythiyagaraj college 08.03.2017.
11. "Future Ready Big Data" in one day seminar on Face to Face interaction on Big Data and Data Analytics Organized by Sankara College of Arts and Science held on 12th August 2016.
12. "A research pathway in Computer Science-A Glimpse" in an seminar orgainsed by Sri Ramkrishna College of arts and Science for women, Coimbatore held on 29thFebrury 2016.
13. "Data Mining using MATLAB" in an UGC Sponsered State level workshop on Research Directions in Datamining Organized by Gobi Arts and Science college, held on 22nd January 2016.
14. "Research directions in Data mining" in an UGC Sponser state level workshop on Research Directions in Data Mining Organized by Gobi Arts and Science college, held on 23nd January 2016.
15. "Practices in MATLAB tools" in one day workshop organised by Sri Ramkrishna College of arts and Science for women, Coimbatore held on 23rd August 2014.
16. 'Research Issues in Image Processing' in National level workshop organized by K.S.Rangasamy College of Technology-5th January 2013.
17. Certificate programme in Tamil computing organized by Department of Tamil, D.G.Vaishnav College, Chennai on February and March 2012.
18. 'Tools and programming in MATLAB "in two day Faculty development programme to be organized by Kathir College of Engineering,Coimbatore-17th and 18th Feb 2012.
19. 'How to execute a research project' in two days National Seminar on Research methodology and project proposal preparation by D.G.Vaishnav College, Chennai on 14th – 15th Oct 2011.

20. 'MATLAB in Research' in the one day Research Development programme organized by Department of Computer Science, Gobi Arts and Science College, Gobichettipalayam on 2nd April 2011.
21. "A PIP into MATLAB Image Processing toolbox" in the 'Faculty Improvement Program' organized by MCA Department, Siddhaganga Institute of Technology, Tumkur, 21st – 22nd January, 2011.
22. "Research Proposals" in the 'Faculty Improvement Program' organized by MCA Department, Siddhaganga Institute of Technology, Tumkur, 23rd - 24th October, 2010.
23. "Image Processing using MATLAB" in the 'Faculty Improvement Program' organized by MCA Department, Siddhaganga Institute of Technology, Tumkur, 28th- 29th June, 2010.

Reviewer of Journals

- World Scientific and Engineering Academy and Society – WSEAS
- International Journal of Computer Science, Engineering and Applications -IJCSEA
- International Journal of Information Sciences and Techniques –IJIST
- Academy and Industry research collaborationCenter –(AIRCC)

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Aboard Visits

1. Marrakech, Morocco, 3rd – 11th March 2023 to participate in AICV 2023.
Technical Committee Member, International Conference on Artificial Intelligence and Computer Vision AICV 2023 Keynote talk on 'Image Processing and Artificial Intelligence on Real time applications', International Conference on Artificial Intelligence and Computer Vision AICV 2023

Session Chair, International Conference on Artificial Intelligence and Computer Vision AICV 2023

2. Casablanca, Morocco, 7th – 18th Oct 2019 to participate IEEE ISC2, 2019.
 - a. Contribute as poster chair and member on IEEE ISC2 2019 to the preparation of the event and take part, as poster chair representing Avinashilingham University at IEEE ISC2 2019
 - b. Participate as expert on machine learning and IoT to the development of part of the testbed of End to End Energy Efficiency Living lab project (E4 Living Lab) funded by the National Centre for Science and Technology Research (CNRST.ma)
 - c. Invited talk on IEEE ISC2 – 2019, Oct 14th to 17th 2019
3. Singapore, 16th – 21st June 2019
4. Visit to Dubai, during 14th -29th November 2018
5. Visit to Casablanca, Morocco during 16th – 26th April 2018
6. Visit to Florence, Italy during 6th – 8th July 2017.
7. Visit to Zurich, Switzerland during 2nd – 5th June 2017
8. Visit to Rome, Italy to participate and present paper in 18th International Conference on Researches in Science & Technology (ICRST), 2017, 9th – 14th June 2017
9. Visit to University of Stuttgart , Stuttgart, Germany as visiting Scientist from the Project entitled “ ‘ Investigating Global warming effect based on texture of icy lake Surface condition from Satellite imagery” DST –DAAD 2011 (period one month, February 3rd –March 7th ,2013).
10. Visit to Barcelona, Spain during 27th Feb – 28th March 2013.
11. Visit to Corporate Astrium GEO-Information Services, Immenstaad, Germany, 15th May 2012.
12. Visit to Venice, Italy during 18th – 19th May 2012.
13. Visit to University of Stuttgart , Stuttgart, Germany as visiting Scientist from the Project entitled “ ‘ Investigating Global warming effect based on texture of icy lake Surface condition from Satellite imagery” DST –DAAD 2011 (period one month ,April 23rd –May 23rd ,2012)
14. Visit to Interlaken, Switzerland during 5th – 6th May 2012.

15. Visit to Cell Biology and Immunology lab, Institute for Biology, University of Stuttgart, 2nd May 2012.

16. Visit to Singapore for attending and presenting a paper in IEEE International Conference on Computer and Automation Engineering, ICCAE 2010, Singapore, 26th Feb – 28th Feb 2010.

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Awards / Prizes

1. **Best Paper Award**, ‘Automatic Detection of Erythrocytes for Sickle Cell Disease Identification Based on YOLOv8n Network’, *5th International Conference on Computational Intelligence (ICCI 2024)*, Sardar Vallabhbhai Patel National Institute of Technology, Surat, 24th – 26th Dec 2024.
2. ‘*Best Innovative product – Anti-sleep Glass for Drivers*’, *One day Intra University Innovative Product Display Competition, Avinashilingam University for Women, 11th August, 2022*
3. *Best paper award for the paper titled, “A Dynamic Controlled Environment Model for Sustainable Mushroom Cultivation by Integrating ML and Physiological Parameters” International Conference on “Artificial Intelligence – Multidisciplinary Perspectives on Emerging Challenges, Research and Opportunities” (ICAI - 2022)*
4. *Best presenter award 2021 from “IEEE World AI IOT congress 2021 “virtual conference, Seattle, USA.*
5. *Best paper award for the paper titled, “Improved Noise Filtering Technique for Wake Detection in SAR image under rough sea condition ” from IEEE World AI IOT congress ,Seattle,USA,2021.*
6. *Best young teacher award 2017 from International Association for Science and technical education ,Chennai*
7. *Best NSS programme officer Award at university level for the year 2015-2016*
8. *Best NSS unit award from National young leaders programme ,Ministry of youth affairs and sports, Government of India 2015-2016*
9. *Best NSS unit award at university level 2017-2018*

University Committee Member/ Additional Information:

1. University Coordinator for MDC, IDC and PC
2. University IQAC Cell Member
3. Lighting Ceremony, Committee member (Campus II In-charge) on 20.03.2020
4. IQAC workshop – 25.02.2020 and 26.02.2020
5. NSS Assistant ProgrammeOfficer for the academic year 2019-2020, for Unit 9 (Computer Science, and attended the special camp at Subramaniampalayam, Goundampalayam, Coimbatore from 10.02.2020 to 16.02.2020
6. MuthuVizha, Committee member (Financial Committee), organized by Department of Mathematics.
7. Staff Incharge for Students Association for the year 2019-2020.
8. Externl expert for BOS at computer science department, Sri Ramakrishna college of Arts and Science on 06 – 11 – 2019
9. Externl expert for BOS at computer science department, Sri Ramakrishna college of Arts and Science on 29 – 04 – 2019
10. Externl expert for BOS at computer science department, Sri Ramakrishna college of Arts and Science on 31 – 11 – 2018
11. Class Advisor for 2017 – 2020 batch UG students
12. Class Advisor for 2021 – 2023 batch UG students

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