



Dr. P.Subashini

Affiliations

- Professor of Computer Science, School of Physical Sciences and Computing Sciences
- Coordinator, DST-CURIE-AI
- Coordinator, Centre for Machine Learning and Intelligence, DST Sponsored
- Coordinator, Avinashilingam Artificial Intelligence (A2I) Club
- Director, GREENTic India Chapter, Academic Collaboration with University of HASSAN II, Casablanca, Morocco, 2019
- Consultant (Research & Development), Kristu Jayanti College, Bengaluru, 2018
- IEEE Women in Computing, Computer Society of INDIA Council, 2015

Research Interest

Image Analysis and Processing, Computational Intelligence, Assistive Technology

International Collaborations

1. 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

2. Title : International program for Solar powered houses SOLAR DECATHLON AFRICA 2019 – International Collegiate Competition for Green Buildings

Collaborator : University of HASSAN II, Casablanca, Morocco

Sponsor : IRESEN, RABAT, Morocco

Amount: USD 50,000/- for the entire consortium

Duration: April 2018 – Oct 2019

Sponsored Research and Development Projects (as Principal Investigator / Coordinator)

1. Core Research Grant for Artificial Intelligence under CURIE Programme (DST-CURIE-AI Phase-II)

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

Amount: Rs. 2,42,10,200/-

Duration: March 2021 – Sept 2023

2. Detection of Emotions from Physiological Signals using AI

Mentor : Dr. P.Subashini, Mentee : S.Tamilarasi, III MCA

Sponsor : DST-CURIE-AI

- Amount: Rs. 18,000/-
Duration: Dec 2019 – March 2020, 4 months
3. **Centre for Machine Learning and Intelligence, DST-CURIE-AI (Phase – I)**
Sponsor : Department of Science and Technology, Govt. of India
Amount: Rs. 70,00,000/-,
Duration: April 2019 – June 2020, 1½ years
4. **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
5. **Title : ‘Design and Development of Computer Assistive Technology system for Differently abled students’**
Sponsor : Science and Engineering Research Board, Department of Science and
Technology, New Delhi
Amount: Rs. 34,36,000/-,
Duration: August 2013 – July 2017, 4 years
6. **Title : ‘Study on Impact of Technology use on Minority Student’s Academic Achievement’**
Sponsor : Dr.Ambedkar Study Center, Avinashilingam University for Women,
Coimbatore
Amount: Rs. 8,000/-,
Duration: April 2011 – Sept 2011, 6 months
7. **Title : ‘Tracking and recognition of ship targets in SAR data for coastal maritime surveillance system’**
Sponsor : Naval Research Board (NRB), DRDO
Amount: Rs. 19,32,000/-,
Duration: March 2011 – March 2013, 2 years
8. **Title : ‘Classification and Recognition of Tamil handwritten characters using Self organizing Maps’**
Sponsor : UGC – University Grants Commission.
Amount: Rs. 55,000/-,
Duration: April 2008 – March 2010, 2 years
9. **Title : ‘A Study on defining maneuvering parameters of ship model by analyzing wakes using image processing techniques’**
Sponsor : Naval research Board, DRDO
Amount: Rs. 27,34,000/-,
Duration: March 2007 – July 2010, 3 years and 3 months

Sponsored Research &Development Projects (as Co-Investigator)

10. **Title : ‘Self-Monitoring Non-invasive Diagnostic Device’**
Sponsor : Seed Money Research Grant, Avinashilingam University
Amount: Rs. 50,000/-,
Duration: June 2023 – May 2024, 1 year

11. **Title : ‘Developing a system for the identification of fresh water algal community using image processing and neural network in lakes at Coimbatore,TamilNadu’**
 Sponsor : University Grants Commission (UGC)
 Amount: Rs. 12,16,300/-,
 Duration: June 2012 – May 2015, 3 years

12. **Title : ‘Detection and Classification of under water mines using Image processing techniques and Neural networks’**
 Sponsor : Naval Research Board (NRB), DRDO
 Amount: Rs. 19,91,800/-,
 Duration: March 2011 – March 2013, 2 years

13. **Title : ‘Design and Development of Landmine detection system using Wireless sensor networks for Military applications’**
 Sponsor : Armament research Board, DRDO
 Amount: Rs. 13,24,800/-,
 Duration: 2008 – 2010, 2 years

14. **Title : ‘Adaptable key management system for mobile adhoc networks’**
 Sponsor : University Grants Commission (UGC)
 Amount: Rs. 7,21,800/-,
 Duration: 2008 – 2011, 2 years

Memorandum of Understanding

- University of Wyoming, USA
- University Hassan II, Casablanca, Morocco
- Athabasca Open University, Canada
- Kyungpook University, South Korea
- Scopik Edutech, Chennai
- Enthu Technology Solutions India Ltd., Coimbatore
- INSTA 3D Technologies LLP, Coimbatore, Coimbatore

Research Guidance

M.Phil. - 8

Ph.D.

Completed - 7

Pursuing - 6

Ph.D. Dissertations

- Devi aruna D., 2014, ‘Layerwise Security Framework with SNAAuth-SPMAODV to defend Denial of Service attack for Mobile adhoc Networks in Hostile Environment’
- Sri Devi N., 2015, ‘Optimized Complex Extreme Learning Machine for Classification of 11th Century handwritten Tamil Scripts’
- P.T.Bharathi, 2016, ‘Optimized feature selection methods for classification of river ice types from aerial images’
- Jansi S., 2016, ‘Hybrid Fuzzy Clustering technique using Random based optimization for segmenting MRI brain images’
- T.T.Dhivyaprabha, 2019, ‘Synergistic Fibroblast Optimization – a novel nature inspired computing algorithm’

- M.Rajalakshmi, 2020, ‘Improved Segmentation Techniques for Toxin Detection in Chili Pepper X-Ray images’
- M.Manjutha, 2022, ‘Analysis of Tamil Stuttered Speech using Computational Intelligence’

Scientific Engagement and Output

Patents

1. KIDBOT 1.0, Application no. - 202241029718 – Published, May 2022
2. Cervical Cancer Self-Test Kit, Application No. - 202241020392 – Published, May 2022
3. Artificial Intelligence-based Mosquito Trap to Control Vector-Borne Diseases, Application No. - 202241021066 – Published, May 2022

Technology Development

- Algorithm Development ‘Synergistic Fibroblast Optimization’ Algorithm
Source codes are available at
www.sfoalgorithm.info
www.matlab-central.com/
www.researchgate.org/
- Open-Source Mobile Apps Logarithmic Table for Specially-abled students
Periodic Table for Specially abled students

Books / Monograph published

- ‘Machine Learning using Google Colab – for Chemistry and Biochemistry Applications’, 16th Dec 2022, Notion Press, Chennai, ISBN –13 979-8889239963.
- Edited Book – ‘Smart Innovation, Systems and Technologies’, Proceedings of Networking, Intelligent Systems, and Security, NISS 2021, Springer, eBook ISBN 978-981-16-3637-0, Print ISBN 978-981-16-3636-3.
- ‘Prototype Experiments for Beginners – Embedded Systems’, 6th Oct 2021, Notion Press, Chennai, ISBN – 9781685638054.
- ‘Nature Inspired Computing (NIC): Research and its Applications’, 16th Oct 2020, Notion Press, Chennai, ISBN – 9781636691015.
- ‘I am your Android – Volume I, Simple Concepts’, Sept 2020, Xpress Publishing, Chennai, ISBN - ISBN-10 : 1636330010, ISBN-13 : 978-1636330013.
- ‘I am your Android – Volume II, Advanced Concepts’, 17th Sept 2020, Xpress Publishing, Chennai, ISBN-10 : 1636330118, ISBN-13 : 978-1636330112.

- ‘Off-line recognition of handwritten Tamil sentences using Hybrid Hidden Markov Model’, LAP LAMBERT Academic Publishing GmbH & Co., KG Heinrich-Böcking-Str.6-8, 66121, Saarbrücken, Germany, ISBN: 978-3-8484-0633-3.
- ‘தமிழ் சொல் செயலிகளின் செய்முறை விளக்கம்– தமிழில்’ (‘Tamil Word Processors – a practical approach (in Tamil)’), December 2011, IRIS Publications, Coimbatore, ISBN – 938054313-1

Book Chapters published (12)

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*. July 2023. Smart Innovation, Systems and Technologies, vol 358. Springer, Singapore. DOI: https://doi.org/10.1007/978-981-99-3416-4_64.
2. Susan M. B., J., Subashini, P., & Krishnaveni, M. (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.
4. M., Mohana, Nandhini K., **Subashini.P.**, "Review on Artificial Intelligence and Robots in STEAM Education for Early Childhood Development: The State-of-the-Art Tools and Applications." *Handbook of Research on Innovative Approaches to Early Childhood Development and School Readiness*, edited by Anastasia Lynn Betts and Khanh-Phuong Thai, IGI Global, 2022, pp. 468-498. <https://doi.org/10.4018/978-1-7998-8649-5.ch019>,
Citation-1
5. **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.
6. Dhivyaprabha, T.T., **Subashini, P.**, Krishnaveni, M., Santhi, N., Ramesh Sivanpillai and Jayashree, G. (2020). ‘An Intelligent Estimation Model for Water Quality Parameters

- Assessment at Periyakulam Lake, South India’. In: Fatos Xhafa, 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>. **Citation-1**
7. **Subashini, P.**, Krishnaveni, M., Dhivyaprabha, T.T. and Shanmugavalli, R. (2019). Review on Intelligent Algorithms for Cyber Security. In: Padmavathi Ganapathi, 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>. **Citation -8**
 8. 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>. **Citation -2.**
 9. ‘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*, Chapter 28, Vol. II, April 2017, Research India Publications, ISBN 978-93-86138-58-3, Pg. No. 415 – 430
 10. ‘Computational Intelligence Based Cell Nuclei Segmentation from Pap Smear Images’, *Biomedical Image Analysis and Mining Techniques for Improved Health Outcomes*, a Volume in IGI Global book series *Advances in Bioinformatics and Biomedical Engineering (ABBE)*, Hershey, USA, November 2015, Chapter 13, ISSN: 2327-7033; eISSN: 2327-7041. Pg. No. 262 – 284. **Citation -2**
 11. ‘Image denoising based on wavelet analysis for Satellite imagery’, *Wavelet Transform / Book 2*, ISBN 979-953-307-385-8, INTECH publishers, Rijeka, Croatia, Chapter 19, pg. 449 – 474, March 2012. **Citation -12**
 12. ‘Intelligent Classifiers Fusion for enhancing recognition of genes and protein pattern of inheritance diseases’, *Systemic Approaches in Bioinformatics and Computational systems Biology*, IGI Global Publishers, Hershey, USA, December 2011, Chapter 10, pg. no. 220 – 248, DOI: 10.4018/978-1-61350-435-2, ISBN13: 9781613504352, ISBN10: 1613504357, EISBN13: 9781613504369.

Publications in International Journals (86)

1. Jennyfer Susan, **Parthasarathy Subashini**, "Deep Learning Inpainting Model on Digital and Medical Images-A Review", *The International Arab Journal of Information Technology*

- (IAJIT), Volume 20, No. 06, pp. 919- 936, November 2023, doi: 10.34028/iajit/20/6/9. ISSN: 1683-3198, Impact factor: 1.2, (Indexed in SCI and Scopus)
2. 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)
 3. Thomas, E. L., and **S. Parthasarathy**. "Expressivity of Tweets on Social Issues Using Aspect Based Text Classification". *International Journal on Recent and Innovation Trends in Computing and Communication*, vol. 11, no. 7s, July 2023, pp. 669-680, <https://ijritcc.org/index.php/ijritcc/article/view/7528>, <https://doi.org/10.17762/ijritcc.v11i7s.7528> (Scopus)
 4. R. Shanmugavalli and **P. Subashini**, "Investigation of Ant Colony Optimization Algorithm for Efficient Energy Utilization in Wireless Sensor Network", *International Journal of Computer Networks & Communications (IJCNC)*, vol. 15, no. 4, pp. 73-92, July 2023. ISSN: 0975-2293, E-ISSN: 0974-2293, Publisher Name: AIRCC Publishing Corporation (Scopus). DOI:10.5121/ijcnc.2023.15405. <https://airconline.com/abstract/ijcnc/v15n4/15423cnc05.html>.
 5. 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>. (Scopus and Web of Science (SCIE)), Impact Factor: 1.5.
 6. R. Keerthana, N. Valliammal, T.T. Dhivyaprabha and P. Subashini. (2023). A healthy nutrition suggestion model for Indian women sports players & active youth using long short-term memory. *Internet Technology Letters*, Special Issue Article, pp. 1-6. DOI: <https://doi.org/10.1002/itl2.452>, URL: <https://onlinelibrary.wiley.com/doi/10.1002/itl2.452>. (Scopus and Web of Science (E-SCI)), Impact Factor: 1.7
 7. M.B. Jennyfer Susan, **P. Subashini**. (2023). [Improvising](#) Grading of Cervical Cancer using Quality Assessments method in Smart Colposcopy Images, Elsevier Journal on *Measurement Sensors*, Vol. 27(2023) pp. 1-11. DOI: 10.1016/j.measen.2023.100788. (Scopus).
 8. Manjutha, M., **Subashini. P.**, (2022), 'Statistical Model-based Tamil stuttered speech segmentation using Voice Activity Detection', *International Journal of Positive School Psychology*, Vol. 6, No. 8, ISSN: 2717-7564, Pg. 1461-1473 (Peer Reviewed)
 9. Manjutha, M., **Subashini. P.**, (2022), "Survey on optimization algorithms in speech processing", *International Journal of Health Sciences*, Vol. 6, No. S5, pp. 2997–3017. ISSN: ISSN 2550-6978, DOI: <https://doi.org/10.53730/ijhs.v6nS5.9307> (Scopus)
 10. M.B. Jennyfer Susan, **P. Subashini**, and M. Krishnaveni (2022) "Comparison of various deep learning inpainting methods in smart colposcopy images", *International Journal of*

11. Soumya Haridas, **P. Subashini**, (2021), ‘A survey of different methods for automated diagnosis of cervical cancer in pap-smear image’, *Journal of Mathematical and Computational Sciences*, Vol. 11 (2021), Pp. 6829-6856, ISSN: 1927-5307, DOI: [10.28919/jmcs/6264](https://doi.org/10.28919/jmcs/6264), *citation-1* (Peer Reviewed)
12. Manjutha. M., **Subashini. P.**, and Krishnaveni. M. (2020), “Acoustic Analysis of Formant Frequency Variation in Tamil Stuttered Speech,” *Journal of Advance Research in Dynamial and Control Systems*, Vol.12, No. 07, 2020, pp.2934-29442, ISSN:1943-023X, DOI:10.5373/JARDCS/V12SP7/20202438 (Peer Reviewed)
13. 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. (Peer Reviewed)
14. B. Preethi, **P.Subashini**, M. Krishnaveni. (2019), 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. (Peer Reviewed)
15. **P.Subashini**, T.T. Dhivyaprabha, M. Krishnaveni, G. Vedha Viyas. (2019), 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. *Citation-1* (Peer Reviewed)
16. 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:20959184(print),20959230(online), DOI: <http://dx.doi.org/10.1631/FITEE.160155> 3,indexed in SCI, Thomson Reuters, Imapcr Factor – 1.604, *citation -17* (Scopus & Web of Science)
17. R. Shanmugavalli, **P.Subashini**, (2018), “Energy Consumption Analysis in WSN Based on Node Placement Strategies”, *International Journal of Engineering and Technology*, vol. 7, no. 3.12, July 2018, pp. 531-535. ISSN: 2227-524X, DOI: [10.14419/v7i3.12.16173](https://doi.org/10.14419/v7i3.12.16173). (Peer Reviewed)
18. T.T. 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. *Springer Evolving Systems*, Vol. 10, 2018, pp. 1-16. DOI: <https://doi.org/10.1007/s12530-018-9217-0>. Print ISSN: 1868-6478, Online

ISSN: 1868-6486, Publisher Name: Springer Berlin Heidelberg, Thomson Reuters indexed, Impact factor – 2.16. **Citation-4 (Scopus & Web of Science)**

19. **P.Subashini**, T.T. Dhivyaprabha, M. Krishnaveni, (2017), Cellular Organism based Particle Swarm Optimization Algorithm for Complex Non-linear Problems. *MATTER: International Journal of Science and Technology*, Vol. 3, No. 2, September 2017, pp. 209-229. ISSN 2454-5880. **Citation-3 (Peer Reviewed)**
20. M. Krishnaveni, **P.Subashini** , T.T. Dhivyaprabha, (2017), Synergistic Fibroblast Optimization Based Boundary Detection in Tamil Sign Language Images. *MATTER: International Journal of Science and Technology*, Vol. 3, No.2, September 2017, pp. 193-208. ISSN 2454-5880. **(Peer Reviewed)**
21. M. Manjutha, Dr. **P.Subashini**, (2017), “Particle Swarm Optimization based Voice Activity Detection for Stuttered Tamil Speech”, *International Journal of Computer Engineering and Applications*, September 2017, ISSN 2321-3469, Volume XI, Issue IX, pp.1-14 . **(Peer Reviewed)**
22. 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. **(Peer Reviewed)**
23. Dr. Krishnaveni, M, **Dr. Subashini, P**, Ms.Dhivyaprabha, T T. (2016). Improved Canny Edges using Cellular based Particle Swarm Optimization technique for Tamil Sign Digital Images. *International Journal of Electrical and Computer Engineering (IJECE)*, Vol 6 No. 5, Pg. 2158-2166, ISSN: 2088-8708. Oct 2016, (SJR – 0.16), Impact factor – 0.223. **Citation-8 (Peer Reviewed)**.
24. Dr M Krishnaveni, **Dr 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), ISSN : 2158-107X(Print), Vol. 7, June 2016, pp. 312-318, Impact factor – 1.324, Thomson Reuters. **Citation-4, (Web of Science)**
25. Dr. M. Krishnaveni , **Dr. P.Subashini** , Ms. 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. **Citation-5, (Peer Reviewed)**
26. Jansi S, **Subashini P.**, 2014, “Modified FCM using Firefly Algorithm for MRI Brain Tissue Segmentation”, *International Journal of Applied Engineering Research (IJAER)*, ISSN Print: 0973-4562, Online:1087-1090, pp. 23755-23764, Volume 9, Number 24 (2014), Dec 2014 **(Peer Reviewed)**

27. Jansi S, **Subashini P.**, 2014, “A Novel Fuzzy Clustering based Modified Firefly Algorithm with Chaotic Map for MRI Brain Tissue Segmentation”, MAGNT Research Report, ISSN No: 1444-8939, Volume 3, No:1, Pages: 52-58, Dec 2014. *Citation-7*, (ISI Thomson Reuters)
28. Jansi S, **Subashini P.**, 2014, “Optimized Fuzzy C Means Segmentation in MRI Brain Images”, Proceedings of GASCIAN Journal of Science & Applications (GJSA), ISSN No: 2348-0440, Volume 2, N0.1, Pages: 1-10, Jan-June 2014. (Peer Reviewed)
29. B.Savitha, **Dr.P.Subashini**, Dr.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, Impact Factor:1.71. (Scopus)
30. Bharathi P.T, **Dr.P.Subashini**, 2014, “Differential Evolution and Genetic Algorithm based Feature Subset Selection for Recognition of River Ice types”, Journal of Applied and Theoretical Information Technology (JATIT), ISSN: 1992-8645 (Print), E-ISSN: 1817-3195 (Online), Vol. 67 No.1, Pp. 254 – 262, September 2014, Impact Factor- 0.19. *Citation-12* (Peer Reviewed)
31. Bharathi P.T, **Dr.P.Subashini**, (2014), “Optimal Feature Subset Selection Using Differential Evolution and Extreme Learning Machine”, International Journal of Science and Research (IJSR), ISSN (Online): 2319-7064, Volume 3 Issue 7, Pp. 1898 – 1905, July 2014. *Citation-15*, (Peer Reviewed)
32. Dr.M.Krishnaveni, **Dr.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)
33. 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. *Citation-1*, (Peer Reviewed)
34. M.Rajalakshmi, **P.Subashini**, 2014, ‘Texture based Image Segmentation of Chili Pepper X-Ray images using Gabor Filter’, International Journal of Advanced Studies in Computer Science & Engineering (IJASCSE), March 2014, ISSN - 2278 7917, Vol. 3, Issue 3, pg. no. 44-51. *Citation-8* (Peer Reviewed)
35. 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.
36. Natchimuthu Santhi, Chinnaraj Pradeepa, **Parthasarathy Subashini** and Senthil Kalaiselvi, 2013, ‘Automatic Identification of Algal Community from Microscopic Images’, Journal of

- Bioinformatics and Biology Insights 2013:7, Libertas Academica, USA, Oct 2013, **ISSN:** 1177-9322, pg. 327-334. **Citation-33 (Scopus and Web of Science)**
37. B.Savitha, **P.Subashini**, 2013, 'Cell Nuclei segmentation in Pap smear images using Optimized Binarization technique with Adaptive Wiener Filter', The International Journal of Computer Science & Applications (TIJCSA), Sept 2013, ISSN – 2278-1080, pg. 28 – 39. **(Peer Reviewed)**
 38. M.Rajalakshmi, **P.Subashini**, 2013, 'Removal of Noise in Chili Pepper images using Weighted 4-Connected Median Filter', International Journal of Computer Science Engineering and Information Technology Research (IJCSETTR), August 2013, ISSN – 2249-6831, Vol. 3, Issue 3, pg. no. 109-118. **Citation-1, (Peer Reviewed)**
 39. N.Sridevi, **P.Subashini**, 2013, 'Optimized Framework for Classification of 11th Century Handwritten Ancient Tamil Scripts using Computational Intelligence Technique', The International Journal of Computer Science & Applications (TIJCSA), Volume 2, No. 02, April 2013, ISSN – 2278-1080, pg. 14-23. **Citation-3, (Peer Reviewed)**
 40. P.T.Bharathi, **Dr.P.Subashini**, 2013, 'Decision Based Median Filter using Particle Swarm Optimization for Impulsive Noise', International Journal of Emerging Technologies in Computational and Applied Sciences (IJETCAS), Issue 4, Vol. 1 & 2, ISSN (Print): 2279-0047 ISSN (Online): 2279-0055 March, 2013-May, 2013, pg. 109 – 115, Impact factor – 1.237. **Citation-5, (Peer Reviewed)**
 41. M.Rajalakshmi, **Dr.P.Subashini**, 2013, 'Noise removal methods of chili pepper images for detecting Toxin using Neural Networks', International Journal of Emerging Technologies in Computational and Applied Sciences (IJETCAS), Issue 3, Vol. 1 & 2, ISSN (Print): 2279-0047 ISSN (Online): 2279-0055 December, 2012-February, 2013, pg. 155-162, Impact factor 1.237. **citation 1, (Peer Reviewed)**
 42. S.Jansi, **P.Subashini**, 2013, "Partial Differential Equation Based Denoising Technique for MRI Brain Images", Australian Journal of Basic and Applied Sciences, ISSN: 1991-8178, Vol 7 Issue 11, September 2013, pg. 201-205, Thomson Reuters indexed, **Citation – 2. (Peer Reviewed)**
 43. S.Jansi, **P.Subashini**, 2013, "Particle Swarm Optimization based total variation filter for image denoising", Journal of Theoretical and Applied Information Technology, ISSN: 1992-8645, September 2013, pg. 201-205, Scopus Indexed, Impact Factor: 1.71, **Citation-11. (Scopus)**
 44. **Dr.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. **(Peer Reviewed)**

45. **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. (Peer Reviewed)
46. N.Sridevi, **P.Subashini**, 2012, 'Moment Based Feature Extraction for Classification of Handwritten Ancient Tamil Scripts', International Journal of emerging trends in engineering and development (IJETED), Issue 2 Vol 7, Nov 2012 , ISSN No.:2249-6149, pg. 106 – 115. *Citation-7*, (Peer Reviewed)
47. S.Jansi, **P.Subashini**, 2012, 'Optimized Adaptive Thresholding based Edge Detection Method for MRI Brain Images', International Journal of Computer Applications (IJCA), ISSN : (0975 – 8887) Volume 51– No.20, August 2012, pg. 1-8, Impact factor – 0.821, *Citation – 27*. (Peer Reviewed)
48. N.Sridevi, **P.Subashini**, 2012, 'Segmentation of Text Lines and Characters in Ancient Tamil Script Documents using Computational Intelligence Techniques', International Journal of Computer Applications (IJCA), ISSN : (0975 – 8887) Volume 52– No.14, August 2012, pg. 7-11, Impact factor – 0.814. *Citation-11*, (Peer Reviewed)
49. M.Rajalakshmi, **Dr.P.Subashini**, 2012, 'A study on non-destructive method for detecting toxin in pepper using Neural Networks', International Journal of Artificial Intelligence & Applications (IJAAIA), Vol.3, No.4, July 2012, ISSN : 0975 – 900X [Online]; 0976 – 2191 [Print], pg. 180-202, citation – 1. (Peer Reviewed)
50. D.Devi Aruna, **P.Subashini**, 2012, 'SNAAuth-SPMAODV with IPSec to secure network layer for Mobile adhoc networks in Military Scenario', International Journal of Engineering Research & Technology (IJERT), Vol. 1 Issue 5, July – 2012, ISSN: 2278-0181, pg. 1-8. *Citation-3*, (Peer Reviewed)
51. D.Devi Aruna, **Dr.P.Subashini**, 2012, 'Securing Physical and network layer using SNAAuth-SPMAODV with DSSS for Mobile adhoc networks in Military Scenario', International Journal of Electronics and Computer Science Engineering (IJECSE), ISSN 2277-1956/V1N3-1840-1849, July 2012, pg. 1840-1849, *Citation – 3*. (Peer Reviewed)
52. D.Devi Aruna, **P.Subashini**, 2012, 'SNAAuth-SPMAODV: Secure Neighbor Authentication Strict Priority Multipath AODV against Denial of Service attack for MANET in Military Scenario', International Journal of Computer Applications (IJCA), ISSN : 0975 – 888, Volume 48– No.4, June 2012, pg. 1-6. Impact Factor-0.814 (Peer Reviewed)
53. D.Devi Aruna, **P.Subashini**, 2012, 'Securing Transport and Network layer using SNAAuth-SPMAODV with WTLS in Mobile adhoc networks for Military Scenario', IRACST – International Journal of Computer Networks and Wireless Communications (IJCNWC),

ISSN: 2250-3501, Vol.2, No.2, April 2012, pg. 260 – 269, Impact factor – 0.274. **Citation-2**, (Peer Reviewed)

54. D.Devi Aruna, **P.Subashini**, 2012, ‘CCMP-AES Model with SNAAuth-SPMAODV Routing Protocol to Secure Link and Network Layer for Mobile Adhoc Networks in Military Scenario’, International Journal of Engineering and Advanced Technology (IJEAT) ISSN: 2249 – 8958, Volume-1, Issue-4, April 2012, pg. 230 – 236, Impact factor – 1.0, **Citation – 1**. (Peer Reviewed)
55. D.Devi Aruna, **P.Subashini**, 2012, ‘SNAAuth-SPMAODV with SIP to secure application and network layer in Mobile adhoc network for Military Scenario’, IRACST – International Journal of Computer Science and Information Technology & Security (IJCSITS), ISSN: 2249-9555, Vol. 2, No.2, April 2012, pg. 446 – 454. (Peer Reviewed)
56. Bharathi P. T, Dr. **P.Subashini**, 2012, ‘Optimization of Image Processing Techniques using Neural Networks–A Review’, WSEAS Transactions on Information Science and Applications, ISSN: 1790-0832 300 Issue 8, Volume 8, March 2012, Pg. 300-328, **Citation – 16**. (Peer Reviewed)
57. Dr.G.Padmavathi, **Dr.P.Subashini**, Ms.D.Devi Aruna, (2012), ‘ZRP with WTLS Key Management Technique to Secure Transport and Network Layers in Mobile Adhoc Networks’, International Journal of Wireless & Mobile Networks (IJWMN), Vol.4, No.1, February 2012, ISSN: 0975-3834 (Online); 0975-4679 (Print), pg.129-138. **Citation-3**, (Scopus)
58. S. N. Geethalakshmi, **P.Subashini**, S. Ramya, 2012, ‘Recognition of Side Scan Sonar under water mine using One Step secant Back Propagation Neural Network’, World of Computer Science and Information Technology Journal (WCSIT), Vol. 1, No. 7(communicated).
59. Dr.S.N.Geethalakshmi, **Dr.P.Subashini**, Mrs.P.Geetha, 2012, ‘Normalization of Side Scan Sonar Underwater Mine Images Using Serpentine Forward Backward Filter’, World of Computer Science and Information Technology Journal, WCSIT Vol. 1, No. 7(communicated).
60. Dr.G.Padmavathi, **Dr.P.Subashini**, Ms.D.Devi Aruna, (2012), ‘DSSS with ISAKMP key Management Protocol to secure physical layer for Mobile Adhoc network’, International Journal of Network Security & Its Applications (IJNSA), Vol.4, No.1, January 2012, ISSN no. ISSN: Online – 0974 – 9330, print – 0975 – 2307, pg. 69 – 76. **Citation-2**, (Peer Reviewed)
61. Dr.G.Padmavathi, **Dr.P.Subashini**, Ms.D.Devi Aruna , (2012), ‘ANODR-ECC Key Management protocol with TELNET to secure Application and Network layer for Mobile Adhoc Networks’, International Journal of Distributed and Parallel Systems (IJDPS) Vol 3.,

No. 1, January 2012, ISSN No. 0976 – 9757 online, 2229 – 3957 print), pg. 331 – 339.
Citation-7, (Peer Reviewed)

62. Dr. **P.Subashini**, (2011), ‘Impact of Technology use on Minority student’s academic achievement’, Asian Journal of Business, Economics, and Management, Asian Research Consortium, Dec 2011, ISSN 2249-7307, pg. 118-125. *(Peer Reviewed)*
63. S. N. Geethalakshmi, **P.Subashini**, S. Ramya, (2011), ‘A Study on Detection and Classification of Underwater Mines Using Neural Networks’, International Journal of Soft Computing and Engineering (IJSCE), Oct 2011, Volume-1, Issue-5, November 2011, ISSN: 2231-2307 (Online), pg. 150-157, Impact factor – 1.0. *Citation-18, (Peer Reviewed)*
64. Dr.S.N.Geethalakshmi, **Dr.P.Subashini**, Mrs.P.Geetha, (2011), ‘A Study on Detecting and Classifying underwater Mine like objects using Image processing techniques’ International Journal of Computer Science and Engineering (IJCSE), Vol. 3 No. 10 October 2011, ISSN: 0975-3397, pg. 3359 – 3366, *Citation – 4. (Peer Reviewed)*
65. D.Devi Aruna, **Dr.P.Subashini**, (2011), ‘Analysis of different propagation model for IPsec-LANMAR routing protocol to secure network layer for MANET in emergency area environment’, International Journal of Computer Science and Technology (IJCST), IJCST Vol. 2 Issue 4 . OCT–DEC, 2011 – ISSN: 0976-8491 (online), 2229-4333 (Print), pg. 295-298, Impact factor – 0.656. *Citation-3, (Peer Reviewed)*
66. **Dr.P.Subashini**, S.Jansi, (2011), ‘Optimal Thinning Algorithm for detection of FCD in MRI Images’, International Journal of Scientific and Engineering Research (IJSER), September 2011, Vol 2, Issue 9, ISSN 2229-5518, pg. 1-7, Impact factor – 1.4, *Citation – 10. (Peer Reviewed)*
67. Dr. **P.Subashini**, Bharathi.P. T, (2011), ‘Automatic Noise Identification in Images using Statistical Features’, International Journal for Computer Science and Technology, IJCST Vol. 2 Issue 3 ,September, 2011 – ISSN: 0976-8491 (online), 2229-4333 (Print), pg. 467-471, Index Copernicus Value: 5.09, Impact factor – 0.491, *Citation-14. (Peer Reviewed)*
68. **P.Subashini**, N.Sridevi, (2011), ‘An optimal binarization algorithm based on Particle Swarm Optimization’, International Journal on Soft Computing and Engineering (IJSCE), Sept 2011, ISSN: 2231-2307, Volume 1, Issue 4, pg. 32 – 37, Impact Factor – 13. *(Peer Reviewed)*
69. **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 – 9. (Peer Reviewed)*
70. **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, *Citation – 12 (Peer Reviewed)*

71. **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 – 2. (Peer Reviewed)*
72. Dr. **P.Subashini**, Ms. 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, *Citation – 1 (Peer Reviewed)*
73. Dr.G.Padmavathi, **Dr.P.Subashini**, Ms. 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 -7. (Peer Reviewed)*
74. Dr.G.Padmavathi, **Dr.P.Subashini**, Ms. 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 – 2. (Peer Reviewed)*
75. Dr. G.Padmavathi, Dr. **P.Subashini**, Mrs.A.Sumii, (2010), ‘Empirical evaluation of suitable segmentation algorithms for IR images’, International Journal on Computer Science Issues(IJCSI), July 2010, Vol. 07, issue 04, No. 02, pg. 22-29, ISSN No. 1694-0784, 1694-0814, Impact Factor - 0.423, *Citation – 22 . (Peer Reviewed)*
76. Dr.G.Padmavathi, **Dr.P.Subashini**, Ms.D.Devi Aruna, (2010), ‘CCMP-AES Model with DSR routing protocol to secure Link layer and Network layer in Mobile Adhoc Networks’, International Journal on Computer Science and Engineering(IJCSE), July 2010, Vol. 02, No. 05, pg. 1524-1531, ISSN No. 0975–3397, Impact Factor – 1.433 . *Citation-8 (Peer Reviewed)*
77. Dr.G.Padmavathi, **Dr.P.Subashini**, M.Muthukumar, Mr.Suresh kumar Thakur, (2010), ‘Comparison of Filters used for Underwater Image Pre-processing’, International Journal of Computer Science and Network Security (IJCSNS), January 2010, Vol 10, No. 01, pg. 58 – 65, ISSN No. 1738-7906, Impact Factor 0.37, *Citation – 103. (Peer Reviewed)*
78. Dr. G. Padmavathi, Dr. **P.Subashini**, Mr. M. Muthu Kumar, Mr.Suresh Kumar Thakur, (2009), ‘Performance analysis of non-linear filtering algorithms for under water images’, Journal of Computer Science and Information security (IJCSIS), December 2009, pg. no. 232-238, ISSN No. 1947-5500, Impact Factor 0.423, *Citation – 25. (Peer Reviewed)*

79. Ms.M.Krishnaveni, Mrs.**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. (Peer Reviewed)
80. Ms. M.Krishnaveni, Mr.Suresh Kumar Thakur, Dr. **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 – 8*. (Peer Reviewed)
81. Dr. G. Padmavathi, Dr. **P.Subashini**, Ms.D.Devi Aruna, (2009), ‘Impact of Worm-hole attacks and performance study of different Routing Protocols in Mobile Adhoc Networks’, Journal of Information Assurance and Security (JIAS), October 2009, pg. no. 94-101, ISSN No. 1554-1010, Impact Factor 1.071, *Citation – 2*. (Peer Reviewed)
82. Dr. G. Padmavathi, Dr. **P.Subashini**, Ms.D.Devi Aruna, (2009), ‘An Evaluation of Suitable Key Management schemes in Mobile adhoc Networks’, CiiT Journal of Networking and Communication Engineering, Vol. 1, No. 5, August 2009, pg. no. 188-192, ISSN No. 0974-9713, Impact factor – 0.569. (Peer Reviewed)
83. S.Santhosh Baboo, **P.Subashini**, M.Krishnaveni, (2009), ‘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, Impact factor – 1.608, *Citation – 10*. (Peer Reviewed)
84. 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. (Peer Reviewed)
85. Dr. **P.Subashini**, N.Valliammal, (2007), ‘An efficient Thinning algorithm for Tamil handwritten Characters’ – IETECH International Journal of Advanced Computations, vol1-2, pp 56-62, September 2007, vol. 1, no. 2, pg. 56-62, ISSN : 0973-8096. (Peer Reviewed)
86. Lt.S.Santhosh Baboo, **P.Subashini**, K.S.Easwarakumar, B.Senthilkumar, (2006), ‘Digital Water-marking for Mobile and PDA Devices based Images(Extended Version)’ – in the special issue on ‘Image Coding and Security’ of International Journal of ICGST 2006, Egypt, pg. 25-30, ISSN : 1687-398X-print, 1687-3998-online. Impact factor – 1.608, *Citation – 2*. (Peer Reviewed)

Publications in National Journals (4)

1. **Dr.P.Subashini**, S.Jansi , (2011), ‘A Study on Detection of Focal Cortical Dysplasia using MRI Brain Images’, Journal of Computer Applications, JCA Jan-Mar 2011, Vol 4, Issue 2, ISSN Number: 0974-1925, pg no. 23-28, *Cited by 2*. (Peer Reviewed)

2. Dr. U.Jerinabi, Mrs **P.Subashini**, Mrs.P.Santhi, (2006), 'A Business Process model for e-Publishing industry' – National Journal of Management Science, Durgapur , Oct-Dec 2006, pg. 18-23.
3. RamakanthKumar.P, Manjaiah, **P.Subashini**, Dr.S.C.Sharma, (2006), 'On-line Handwritten Kannada Character Recognition using Feed Forward Network with Back-propagation' – National Journal of Computer Science, Coimbatore, June 2006, pg. 524-530.
4. **P.Subashini**, Dr.S.C.Sharma, (2006), 'Holistic Tamil Handwritten Character Recognition', National Journal of Computer Science, Coimbatore, March 2006, vol.1, no. 5, pg. 454-460 .

Publications in International Conferences (78)

1. Dhivyaprabha, T.T., **Subashini, P.** (2023). Synergistic fibroblast optimization algorithm for solving knapsack problem. In: *Idrissi, A. (eds) Modern Artificial Intelligence and Data Science. Studies in Computational Intelligence*, vol.1102. Springer, Cham, Print ISBN: 978-3-031-33308-8, Online ISBN: 978-3-031-33309-5, DOI: DOI: https://doi.org/10.1007/978-3-031-33309-5_24
2. Jennyfer Susan M B., & **Dr.P.Subashini** (2022). 'Detection of Specular Reflection on smart Colposcopy Images using Finetuned U-Net Model', Proceedings of the International Conference on International Sustainability Conference, ISC 2022, Engineering, Science, and Sustainability: Advancements in Technology and Techniques, CRC Press, PB 9781032484235, EB 9781003388982, DOI 10.4324/9781003388982, pg. 16-21.
3. M. Mohana, Aleph Campos Da Silveira, V. Suvetha, **P. Subashini**, Gheorghita Ghinea, and Celso Alberto Saibel Santos. 2023. Technology Enhanced Mulsemmedia Learning (TEML) for Learners with Dyslexia. In ACM International Conference on Interactive Media Experiences Workshops (IMXw '23), June 12–15, 2023, Nantes, France. ACM, New York, NY, USA, 4 pages. <https://doi.org/10.1145/3604321.3604357>
4. Sudhamathy, G., Valliammal, N., **Subashini, P.**, Dhivyaprabha, T.T., Gracelin Sneha, R. (2023). Hybrid convolutional neural network - long short-term memory model for automated detection of sleep stages. In: 2023 International Conference on Intelligent Systems for Communication, IoT and Security (ICISCoIS), Coimbatore: IEEE, pp. 1-6, DOI: 10.1109/ICISCoIS56541.2023.10100489, Electronic ISBN:979-8-3503-3583-5, USB ISBN:979-8-3503-3582-8, Print on Demand (PoD) ISBN:979-8-3503-3584-2. URL: <https://ieeexplore.ieee.org/document/10100489>.
5. M. Mohana and **P. Subashini**, (2023). "Emotion Recognition using Autoencoders: A Systematic Review", International Conference on Intelligent Systems for Communication, IoT and Security (ICISCoIS), Coimbatore, India, 2023, pp. 438-443, DOI: 10.1109/ICISCoIS56541.2023.10100563.

6. Mohana, M., **Subashini, P.** (2023). Convolutional Sparse Autoencoder for Emotion Recognition. In: , *et al.* The 3rd International Conference on Artificial Intelligence and Computer Vision (AICV2023), March 5–7, 2023. AICV 2023. Lecture Notes on Data Engineering and Communications Technologies, vol 164. Springer, Cham. https://doi.org/10.1007/978-3-031-27762-7_1
7. Bhuvanewari, S., **Subashini, P.** (2023). Red-Channel Based Iris Segmentation for Pupil Detection. In: , *et al.* The 3rd International Conference on Artificial Intelligence and Computer Vision (AICV2023), March 5–7, 2023. AICV 2023. Lecture Notes on Data Engineering and Communications Technologies, vol 164. Springer, Cham. https://doi.org/10.1007/978-3-031-27762-7_22
8. Krishnaveni, M., Raajeswari, **P., Subashini, P.**, Narmadha, V., Ramya, P. (2023). Soil Nutrient Prediction Model in Hybrid Farming Using Rule-Based Regressor. In: , *et al.* The 3rd International Conference on Artificial Intelligence and Computer Vision (AICV2023), March 5–7, 2023. AICV 2023. Lecture Notes on Data Engineering and Communications Technologies, vol 164. Springer, Cham. https://doi.org/10.1007/978-3-031-27762-7_16
9. **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.
10. T.T. Dhivyaprabha, **P. Subashini.** (2023), Synergistic Fibroblast Optimization Algorithm for Solving Knapsack Problem, International Conference on Modern Artificial Intelligence and Data Science Systems - MAIDSS'22, Rabat, Morocco, 2nd – 3rd Feb 2023.
11. M. Mohana, **P. Subashini**, (2023), Emotion Recognition using Deep Stacked Autoencoder with Softmax Classifier, IEEE International Conference on Artificial Intelligence and Smart Systems (ICAIS 2023), JCT College of Engineering and Technology, Coimbatore, India Pg. 864 -872, ISBN: 978-1-6654-6216-7/23, DOI: 10.1109/ICAIS56108.2023.10073937.
12. Krishnaveni, M., **Subashini, P.**, Dhivyaprabha, T.T. (2023). Recurrent Neural Network Model for the Classification of Tamil Speech Sound Disorder Signals. In: Kumar, S., Hiranwal, S., Purohit, S.D., Prasad, M. (eds) *Proceedings of International Conference on Communication and Computational Technologies. Algorithms for Intelligent Systems.* Springer, Singapore, pp. 745-759. DOI: https://doi.org/10.1007/978-981-19-3951-8_56. Print ISBN: 978-981-19-3950-1, Online ISBN: 978-981-19-3951-8. URL: https://link.springer.com/chapter/10.1007/978-981-19-3951-8_56.

13. **P.Subashini**, M.Krishnaveni, M.Mohana, S.Aiswarya, ‘STEM-ல் இந்திய பெண்களின் பங்களிப்பும் ஆளுமையும் - ஒரு அறிவியல் இலக்கிய ஆய்வு’, International Conference on ‘இலக்கியங்களில் பெண்களின் ஆளுமை’, 20th Oct 2021 Avinashilingam University, pp. 613-621, ISSN:2321 984X.
14. **Subashini, P.**, Hareesh Kumar, P.V., Lekshmi, S., Krishnaveni, M. and Dhivyaprabha, T.T. (2021). Improved Noise Filtering Technique for Wake Detection in SAR Image Under Rough Sea Condition. *2021 IEEE World AIoT Congress (AIoT)*. Seattle: IEEE, pp. 0174-0180. ISBN: 978-1-6654-3568-0.
15. Jennyfer Susan M B., & **Dr.P.Subashini** (2021). ‘Specular Reflection Detection on Medical Images- A Review’, Proceedings of the International Conference on Artificial Intelligence and Soft Computing (ICAISC-2021), Vijayapura, Karnataka, ISBN: 978-93-88929-53-0, pp. 506-515 (UGC-CARE listed).
16. M. Manjutha, **P. Subashini** and M. Krishnaveni, (2019), "Analysis on Regularity of Speech Energy based on Optimal Thresholding for Tamil Stuttering Dataset," *IEEE International Smart Cities Conference (ISC2)*, Casablanca, Morocco, 2019, Electronic ISBN: 978-1-7281-0846-9 , USB ISBN: 978-1-7281-0845-2, Print on Demand(PoD) ISBN: 978-1-7281-0847-6 , Electronic ISSN: 2687-8860, Print on Demand(PoD) ISSN: 2687-8852, pp. 143-149, DOI: [10.1109/ISC246665.2019.9071726](https://doi.org/10.1109/ISC246665.2019.9071726), <https://ieeexplore.ieee.org/document/9071726>, **Citation-1.**
17. M. Manjutha, **P. Subashini**, M. Krishnaveni and V. Narmadha, "An Optimized Cepstral Feature Selection method for Dysfluencies Classification using Tamil Speech Dataset, "IEEE International Smart Cities Conference (ISC2), Casablanca, Morocco, 2019, Electronic ISBN: 978-1-7281-0846-9, ISBN: 978-1-7281-0845-2, Print on Demand(PoD) ISBN: 978-1-7281-0847-6, Electronic ISSN: 2687-8860, Print on Demand(PoD) ISSN: 26878852, pp. 671-677, DOI: [10.1109/ISC246665.2019.9071756](https://doi.org/10.1109/ISC246665.2019.9071756) <https://ieeexplore.ieee.org/document/9071756>, **Citation-3.**
18. Sangeetha, N., Dhivyaprabha, T.T., **Subashini, P.**, and Udaya Chandrika, K. (2020). Cost Analysis of the Optimized Two Phase Retrieval Queueing System in Call Centers. In: Proceedings of the International Conference on Data Analytics & Computational Mathematics. Coimbatore, 29th Feb 2020, pp. 168-174. ISBN: 978-93-89105-40-7.
19. Subashini, P., Krishnaveni, M., Dhivyaprabha, T.T., Preethi, B., Aawatif Hayar, ElAlaoui ElHanafi, M., Joundi and Elm. Kheddioui. (2019). Personalized Elearning Open Platform for Alphabetization Awareness in Rural Areas of Morocco. In: *IEEE International Smart Cities*

Conference. Casablanca: IEEE, pp. 22-29. E-ISBN: 978-1-7281-0846-9, USB ISBN: 978-1-7281-0845-2, Print on Demand (PoD) ISBN: 978-1-7281-0847-6, E-ISSN: 2687-8860, Print on Demand (PoD) ISSN: 26878852, DOI: [10.1109/ISC246665.2019.9071720](https://doi.org/10.1109/ISC246665.2019.9071720). Link: <https://ieeexplore.ieee.org/document/9071720>.

20. Krishnaveni, M., Geethalakshmi, S.N., Subashini, P., Dhivyaprabha, T.T. and Lakshmi, S. (2019). Optimized Backpropagation Neural Network Model for Brain Computer Interface System. In: *IEEE International Smart Cities Conference*. Casablanca: IEEE, pp. 420-425. **E-ISBN: 978-1-7281-0846-9, USB ISBN: 978-1-7281-0845-2, Print on Demand (PoD) ISBN: 978-1-7281-0847-6, E-ISSN: 2687-8860, Print on Demand (PoD) ISSN: 2687** 8852, **DOI: [10.1109/ISC246665.2019.9071784](https://doi.org/10.1109/ISC246665.2019.9071784). Link: <https://ieeexplore.ieee.org/document/9071784>**
21. B.Preethi, **P.Subashini**, M.Krishnaveni, (2019), Wireless based CO₂ Monitoring system for Mushroom Cultivation, International Conference on Research and Innovations in Computational Intelligence (RICI 2019), 4th Feb 2019, Ramakrishna Women's college, Coimbatore, ISBN: 978-81-939960-1-0, pp. 145-148.
22. **P.Subashini**, T.T.Dhivyaprabha, M.Krishnaveni, G.Vedha Viyas, (2019), Motility Factor based Optimized Q-Learning Algorithm for intelligent Walking Cane, International Conference on Research and Innovations in Computational Intelligence (RICI 2019), 4th Feb 2019, Ramakrishna Women's college, Coimbatore, ISBN: 978-81-939960-1-0, pp. 149-155.
Citation-1
23. Dhivyaprabha, T.T., and **Subashini, P.** (2018). Multi-Objective Optimization for Smart Energy Grids Using Synergistic Fibroblast Optimization Algorithm. In: *Renewable Energies, Power Systems & Green Inclusive Economy*. Casablanca: IEEE, pp. 1-6. **Electronic ISBN: 978-1-5386-8515-0, USB ISBN: 978-1-5386-8514-3, Print on Demand (PoD) ISBN: 978-1-5386-8516-7, DOI: <https://dx.doi.org/10.1109/REPSGIE.2018.8488801>.**
Citation-1
24. M. Krishnaveni, **P.Subashini**, J. Gracy, and M. Manjutha, "An Optimal Speech Recognition Module for Patient's Voice Monitoring System in Smart Healthcare Applications", *The IEEE 3th International Conference on: Renewable Energies, Power Systems and Green Inclusive Economy (REPS & GIE-2018)*, 23-24 April 2018, Casablanca, Morocco. Pp. 1-6, EISBN: 978-1-5386-8515-0, USB ISBN: 978-1-5386-8514-3, Print on Demand(PoD) ISBN: 978-1-5386-8516-7, DOI:[10.1109/REPSGIE.2018.8488841](https://doi.org/10.1109/REPSGIE.2018.8488841). **Citation-1**

25. R. Shanmugavalli, **P.Subashini**, “A Study on Node Placement Strategies in Wireless Sensor Networks”, International conference on Social Mobile Analytics Cloud, International Journal of Theoretical & Applied Science, Special Issue released for International Conference on SMAC – Reshaping the future, Avinashilingam University for Women, Coimbatore, Feb 9th 2018, ISSN: 0975-1718, V(10)1, pp. 135-142.
26. R. Shanmugavalli, **P.Subashini**, “Energy Consumption Analysis in WSN Based on Node Placement Strategies” (*Abstract only*), 1st International Conference on Information Security Risks – Techno Legal Management TeLIMISR-2018, Vivekanandha Institute of professional Studies, New Delhi, May 21st & 22nd 2018.
27. Dhivyaprabha, T.T., Jayashree, G., and **Subashini, P.** (2018). Medical Image Denoising Using Synergistic Fibroblast Optimization Based Weighted Median Filter. In: *International Conference on Advances in Electronics, Computer and Communications*. Bengaluru: IEEE, pp. 1-6. **Electronic ISBN:** 978-1-5386-3785-2, **Print on Demand (PoD) ISBN:** 978-1-5386-3786-9, **DOI:** <https://dx.doi.org/10.1109/ICAIECC.2018.8479516>. *Citation-1*
28. **P.Subashini**, T.T. Dhivyaprabha, M. Krishnaveni, G. Vedha Viyas. (2017), Synergistic fibroblast optimization based improved reinforcement learning for intelligent assistive device. IEEE Symposium Series on Computational Intelligence (SSCI), Honolulu, Hawaii, USA, 27th Nov – 1st Dec 2017, pp. 2015-2022. ISBN: 978-1-5386-4058-6. *Citation-3*
29. T.T. Dhivyaprabha, M. Manjutha, **P.Subashini**, (2018), Survey on nature inspired algorithm for smart city applications. Proceedings of the ACM Mediterranean Symposium in Smart City Application, Tangier, Morocco, 25-27 October 2017, pp. 1-13. ISBN: 978-1-4503-5211-6, DOI: <https://doi.org/10.1145/3175628.3175642>. *Citation-4*
30. **P.Subashini**, T.T.Dhivyaprabha, M.Krishnaveni, (2017), A Hybrid Particle Swarm Optimization Algorithm Based on Cellular Organism Behavior for Solving Complex Non Linear Problems in Dynamic Environments (Abstract), 18th International Conference on Researches in Science & Technology (ICRST), 09th -10th June 2017, Rome, Italy, pp. 36-37.
31. M.Krishnaveni, **P.Subashini**, T.T. Dhivyaprabha, (2017), A Novel Approach for Boundary Detection in Tamil Sign Language Hand Pose Noisy Images Using Synergistic Fibroblast Optimization Algorithm (Abstract), 18th International Conference on Researches in Science & Technology (ICRST), 09th -10th June 2017, Rome, Italy, pp. 37-38.
32. Ms. T.T. Dhivyaprabha, Dr. **P.Subashini** , ‘Performance Analysis of Synergistic Fibroblast Optimization(SFO) Algorithm’, IEEE sponsored International conference on current trends in advanced computing (ICCTAC), Bangalore, India, 2nd – 3rd March 2017. *Citation-3*

33. Ms. T.T. Dhivyaprabha, Dr. **P.Subashini**, Dr. M. Krishnaveni. ‘Computational Intelligence Based Machine Learning Methods for Rule-Based Reasoning In Computer Vision Applications’. IEEE Symposium Series on Computational Intelligence (SSCI), Athens, Greece, 6th – 9th December 2016, ISBN: 978-1-5090-4239-5, E-ISBN: 978-1-5090-4240-1, Print on Demand (PoD) ISBN: 978-1-5090-4241-8, DOI: [10.1109/SSCI.2016.7850050](https://doi.org/10.1109/SSCI.2016.7850050). *Citation-15*
34. Ms. G.Jayashree, Dr. **P.Subashini**, Dr. M. Krishnaveni, Ms. T.T.Dhivyaprabha, ‘Investigation on Data Analytics in Neonatal Intensive Care Unit(NICU)’ (Abstract only), 21st International Conference on Engineering & Technology, Computer, Basic & Applied Sciences (ECBA 2016), Academic Fora, Dubai, 7th – 8th Oct 2016, Vol 318, Issue 21, pg. 3, ISBN 978-969-670-966-4.
35. Ms. G.Jayashree, Dr. **P.Subashini**, Dr. M. Krishnaveni, Ms. T.T.Dhivyaprabha, ‘Investigation on Data Analytics in Neonatal Intensive Care Unit(NICU)’, 3rd International Conference on Electronics, Computer and Manufacturing Engineering (ICECME 2016), Universal Researchers in Science and Technology, Dubai, 9th – 10th Oct 2016 pg. 19-25, ISBN 978-93-84468-74-3.
36. Dr. **P.Subashini** , Dr. M. Krishnaveni, M. Manjutha, ‘Optimized boundary detection algorithm for postal signs recognition system using variant based particle swarm intelligence’. IEEE International Conference on Computational Systems & Information Technology for sustainable Solution (CSITSS 2016), R V College, Bengaluru, 6th-8th Oct 2016, pg. 162-168, ISBN 978-1-5090-1022-6/16. DOI: [10.1109/CSITSS.2016.777916](https://doi.org/10.1109/CSITSS.2016.777916) *Citation-1*
37. Dr. M. Krishnaveni, Dr. **P.Subashini** , Ms. T.T.Dhivyaprabha, A New Optimization Approach – SFO for Denoising Digital Images, IEEE International Conference on Computational Systems & Information Technology for sustainable Solution (CSITSS 2016), R V College, Bengaluru, 6th-8th Oct 2016, pg. 34-39, ISBN 978-1-5090-1022-6/16. DOI: [10.1109/CSITSS.2016.7779436](https://doi.org/10.1109/CSITSS.2016.7779436), *Citation-11*
38. Dr. M. Krishnaveni, Dr. **P.Subashini** , Ms. T.T.Dhivyaprabha, A Sathya riya. Optimized Classification Based on Particle Swarm Optimization Algorithm for Tamil Sign Language Digital Images. IEEE International Conference on Computational Systems & Information Technology for sustainable Solution (CSITSS 2016), R V College, Bengaluru, 6th-8th Oct 2016, pg 53-57, ISBN 978-1-5090-1022-6/16. DOI: [10.1109/CSITSS.2016.7779439](https://doi.org/10.1109/CSITSS.2016.7779439)

39. Dr. **P.Subashini** , Ms. T.T.Dhivyaprabha, Dr. M. Krishnaveni , 2016, ‘Synergistic Fibroblast Optimization’, Proceedings of Joint International *Conference* on Artificial Intelligence and Evolutionary Computations in Engineering Systems (ICAIECES-2016) and Power, Circuit and Information Technologies (ICPCIT-2016), SRM UNIVERSITY, CHENNAI, 19-21ST MAY 2016, Published in Springer Artificial Intelligence and Evolutionary Computations in Engineering Systems, Vol. 517, Edition 1, Chapter 26, 2017, pp. 293-302. ISBN: 978-981-10-3174-8, DOI: <http://dx.doi.org/10.1007/978-981-10-3174-8>. **Citation-1**
40. P.T.Bharathi, **P.Subashini**, 2015, “Optimal feature subset selection using Differential Evolution with Sequential Extreme Learning Machine for River ice images”, Proceedings of the IEEE TENCON 2015, University of Macau, ISBN:978-1-4799-8639-2, 1st – 4th Nov 2015.
41. Subashini P., Jansi S, 2015, ‘Optimized Segmentation for MRI brain images’, Proceedings of IEEE TENCON 2015, Region 10 and University of Macau, Macau, IEEE Xplore Digital Library, ISBN:978-1-4799-8639-2, 1st – 4th Nov 2015. **Citation-7**
42. 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-2, ISBN:978-1-4799-6479-6, Karpagam College of Engineering, 9th-10th January 2015, pg:1236-1244.
43. Jansi S, **Subashini P.**, 2014, “ Modified FCM using Genetic Algorithm for segmentation of MRI Brain Images”, Proceedings of International Conference on Computational Intelligence and Computing Research (ICCIC), IEEE Xplore Digital Library, ISBN No: 978-1-4799-3974-9, Pages: 1381-1385, Dec 2014.**Indexed by Scopus, Thomson Reuters. Citation-21**
44. S.Jansi, **Dr.P.Subashini**, 2014, ‘Partial Differential equation based ROF filter for MRI brain images’, IEEE International Conference on Computer Communication and Informatics, Sri Shakthi College, Coimbatore, 3rd -5th January 2014, ISBN : 978-1-4799-2353-3, **Indexed by Scopus, Cited by 1. Citation-5**
45. **Dr.P.Subashini**, Dr.M.Krishnaveni, Dr.Bernadetta Kwintiana Ane, Dr.Deiter Roller, 2013 “SVM based classification for identification of ice types in SAR images based on color perception phenomena”, IBICA 2013, Ostrava, Czech Republic, 22nd – 24th August 2013, pg 285-293, ISSN no 2194-5357. **Citation-4**
46. A.Vanitha, **P.Subashini**, 2013, ‘SAR ice image classification using parallelepiped classifier based on Gram-Schmidt spectral technique’, International Conference on Computer Science,

Engineering and Applications, ICCSEA 2013, New Delhi, May 24th -26th, 2013, pp. 385–392, ISBN: 978-1-921987-13-7. *Citation-4*

47. B.Savitha, **P.Subashini**, 2013, ‘An Adaptive Threshold Segmentation for Detection of Nuclei in Cervical Cells using Wavelet Shrinkage algorithms’, International Conference on Computer Science, Engineering and Applications, ICCSEA 2013, New Delhi, May 24th -26th, 2013, pp. 321–327, ISBN: 978-1-921987-13-7. *Citation-4*
48. P.T.Bharathi, **P.Subashini**, 2013, “Texture Feature Extraction of Infrared River Ice Images using Second-order Spatial Statistics”, International Conference on Computer Vision, Image and Signal Processing, ICCVISIP 2013, World Academy of Science, Engineering and Technology, WASET, Barcelona, Spain, Feb 27th -28th , 2013, pp 747-757, Issue 74, ISSN – 2010-376X, 2010-3778. *Citation-11*
49. SriDevi. N, **P.Subashini**, (2013), ‘Combining Zernike Moments with Regional features for Classification of Handwritten Ancient Tamil Scripts using Extreme Learning Machine’, International Conference in Emerging Trends in computing, communication and Nanotechnology, ICE-CCN 2013, Tirunelveli, Mar 25th -26th, 2013, pp 158 – 162, ISBN – 978-1-4673-5036-5. *Citation-15*
50. P.T.Bharathi, **P.Subashini**, 2012, ‘Texture Based Color Segmentation of Infrared River Ice Images Using K-Means Clustering’, International Conference on Signal Processing, Image Processing and Pattern Recognition, ICSIPR 2013, Karunya University, Coimbatore, Feb 7th - 8th, 2013, pp 298-302. *Citation-16*
51. **P.Subashini**, Krishnaveni.M, Bernadetta Kwintiana Ane, (2012), ‘Wavelet-based Image Denoising using Ant Colony Optimization for Identifying Ice Classes in SAR Imagery’, 7th International Conference on Soft Computing Models in Industrial and Environmental Applications, SOCO 2012, 5th-8th September, 2012, Ostrava, Czech Republic. Soft Computing Models in Industrial and Environmental Applications, Springer Berlin Heidelberg, Advances in Intelligent Systems and Computing Volume 188, 2013, Online ISBN 978-3-642-32922-7, pp 399-407. *Citation-2*
52. Janet Light, **Subashini Parthasarathy**, William McIver, (2012), ‘Monitoring winter ice conditions using thermal imaging cameras equipped with infrared microbolometer sensors’, 3rd International Conference on Ambient Systems, Networks and Technologies, ANT 2012, August 27-29, 2012, Niagara Falls, Ontario, Canada. *Citation-13*
53. Bharathi.P.T, **P.Subashini** (2012), ‘De-noising filter for impulse noise in Glacier ice Infrared images’, Proc. Of the International Conference on Advances in Image Processing and

Computation Techniques – PCT 2012, July 14th – 15th, 2012, Singapore, ISBN: 978-981-07-2969-1 doi:10.3850/978-981-07-2969-1 PCT-140, pg. 12-16.

54. SriDevi. N, **P.Subashini**, (2012), ‘Skew Detection and Correction of Ancient Tamil Documents using Particle Swarm Optimization’ – International Conference on Digital Image Processing (ICDIP 2012), April 07-08, 2012, Kuala Lumpur, Malaysia, SPIE Digital library 8334, 83340U (2012).
55. Bharathi.P. T, Dr. **P.Subashini**, (2012), ‘Automatic identification of noise in ice images using statistical features’ – International Conference on Digital Image Processing (ICDIP 2012), April 07-08, 2012, Kuala Lumpur, Malaysia, SPIE Digital library 8334, 83340U (2012), *Citation – 3*.
56. **P.Subashini** and M. Krishnaveni, (2011), ‘A linear framework for identification of ship and its velocity estimation using SAR images’ – International Conference on Computer Science, Engineering and Information Technology, CCSEIT 2011, 23rd – 25th Sept 2011, M.S.University, Tirunelveli, pg. 211-224, ISSN 1865-0929, Springer Verlag 2011.
57. **Dr.P.Subashini** Ms.M.Krishnaveni, (2011), ‘Imputation of missing data using Bayesian Principle Component Analysis on TEC Ionospheric Satellite Dataset’ – IEEE International workshop on Sensor Networks for Intelligent Gathering and Monitoring, SNIGM 2011, Niagara Falls, Ontario, 8th – 11th May 2011, pg. 1540-1543, ISSN 978-1-4244-9789-8/11. *Citation – 5*
58. **Dr.P.Subashini**, M.Krishnaveni, N.Sridevi, (2011), ‘Period Prediction System for Tamil Epigraphical Scripts Based on Support Vector Machine’ – Proceedings of International Conference on Information systems for Indian Languages, ICISIL 2011, CCIS Volume 139, part 1, pg. 23-30, Springer Verlag Berlin Heidelberg 201, Punjab University, Patiala, ISSN 978-3-642-19403-0-4, March 9-11, 2011, *Citation – 8*.
59. Dr. **P.Subashini**, M.Krishnaveni, N.Sridevi, (2011), ‘A suitable framework for recognition of Epigraphical Tamil scripts using Unsupervised learning algorithm’ – Proceedings of International Conference on Mathematics and Computer Science, ICMCS 2011, Loyola college, Chennai, 7th – 9th January, 2011, pg. 394-398, ISBN – 978-81-920490-0-7.
60. **P.Subashini** , A.Parameswari, (2011), ‘Data Fusion by Intelligent Classifier Combination-A Review’ – Proceedings of International Conference on Mathematics and Computer Science, ICMCS 2011, Loyola college, Chennai, 7th – 9th January, 2011, pg. 177-184, ISBN – 978-81-920490-0-7.

61. Dr.G.Padmavathi, **Dr.P.Subashini**, Ms.D.Devi Aruna, 2010, ‘Hybrid Routing Protocols to Secure Network Layer for Mobile Ad hoc Networks’ – Proceedings of IEEE International Conference in Computational intelligence and Computing research, ICCIC 2010, Dec 28th – 29th 2010, Vol 2, ISBN 97881 8371 362-7, Pg: 1 – 4, **Citation – 8.**
62. Dr.G.Padmavathi, **Dr.P.Subashini**, Ms.D.Devi Aruna, 2010, ‘A robust key management scheme for wormhole attacks in Mobile Adhoc Networks’ , Proceedings of International Conference on Computing, ICC 2010, New Delhi, Dec 27th – 28th , 2010, pg., ISBN:978-81-920305-1-7.
63. Dr. G.Padmavathi, Dr. **P.Subashini**, Mrs. A.Sumii, Ms. A.Shanthi, 2010, ‘Detection and Classification of Landmines in Infra red images’ – Proceedings of International Conference on Computing, ICC 2010, New Delhi, Dec 27th – 28th , 2010, pg. 207-213, ISBN:978-81-920305-1-7.
64. **P.Subashini**, M.Krishnaveni, Bernadetta Kwintiana Ane, 2010, ‘An optimum threshold based segmentation for ice detection in SAR images using Gabor filter’ – Proceedings of International Conference on Computing, ICC 2010, New Delhi, Dec 27th – 28th , 2010, pg. 71-75, ISBN:978-81-920305-1-7.
65. **Dr.P.Subashini**, Ms.M.Krishnaveni, Bernadetta Kwintiana Ane. Dieter Roller, Gerald Schaefer, 2010, ‘A combined preprocessing scheme for texture based Ice classification from SAR images’ – Proceedings of ACM, Amrita ACM-W Celebration of Women in Computing, A2CwiC’10, Amrita University, Coimbatore, Sept 16th – 17th, 2010, pg. 161-166, ISBN:978-1-4503-0194-7. **Citaion-3**
66. Dr. **P.Subashini**, Ms. M.Krishnaveni Mr.Suresh Kumar Thakur, , 2010, ‘Performance measures of wavelet families on SAR images for compression hypothesis’ – Proceedings of International Conference on Computer Design and Applications, ICCDA 2010, Qinhuangdao, China, June 25-27, 2010, pg. V1 377- 381, ISBN: 978-1-4244-7164-5. **Citaion-4**
67. Dr. **P.Subashini**, Ms. M.Krishnaveni Mr.Suresh Kumar Thakur, 2010, ‘Coupling optimal method of Segmentation with Restoration for Target detection in SAR images’ – Proceedings of 2nd International Conference on Computer and Automation Engineering, ICCAE 2010, Singapore, 26th – 28th February 2010, pg. 761-764, IEEE catalog number : CFP1096F-PRT, ISBN: 978-1-4244-5585-0, Library of Congress: 2009938876, **Citation – 2.**
68. **P.Subashini**, M.Krishnaveni, 2010, ‘Prediction of Period for Tamil handwritten Epigraphical scripts using Support Vector Machine’ – Proceedings of International Conference on

Mathematices and Computer Science, ICMCS 2010, Loyola college, Chennai, 5th – 6th February, 2010, pg. 222 – 226, ISBN: 978-81-908234-2-5, Citation – 1.

69. Dr. **P.Subashini**, Ms. M.Krishnaveni Mr.Suresh Kumar Thakur, 2010, ‘Quantitative performance evaluation on segmentation methods for SAR ship images’ – Proceedings of International Conference of ACM Bangalore chapter, COMPUTE 2010, 22nd – 23rd January 2010, pg-23-25, ISBN: 978-1-4503-0001-8, *Citation – 8*.
70. Dr.G.Padmavathi, **Dr.P.Subashini**, M.Muthukumar, (2009), ‘Comparison of Speckle reduction filters for denoising Under water images’ – Proceedings of International Conference on Machine Vision, Image processing and Pattern Analysis, Bangkok, 25th – 27th December 2009, ISSN – 2070 3724, pg 1055 – 1061, cited by – 1.
71. Dr.G.Padmavathi, **Dr.P.Subashini**, P.K.Lavanya, (2009), ‘Performance evaluation of the various edge detectors and filter for the noisy IR images’ – Proceedings of 2nd International Conference on Sensors, Signals, Visualization, Imaging, Simulation and Materials (SENSIG 2009), Baltimore, USA, 7th Nov 2009, ISSN – 1790-5117, ISBN – 978-960-474-135-9, pg. 199 – 203, Scopus indexed, *Citation – 22*.
72. **Dr.P.Subashini**, Ms.M.Krishnaveni, (2009), ‘Texture based Segmentation for BRAIN MRI using Range filters’ – Proceedings of International conference on Advanced Computing, ICAC 2009, Cauvery College for Women and Bharathidasan University Technology park, 6th -8th August 2009, pg. 360-366.
73. **P.Subashini**, N.Valliammal, (2007), ‘Optical Character Recognition using Artificial Neural Networks’– Proceedings of International conference on Computers, Communications, Controls and Instrumentations, 3CI-2007, R V College of Engineering, Bangalore, 21st – 23rd Nov 2007, pg.28-31.
74. 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.
75. **P.Subashini**, N.Valliammal, (2006), ‘A Character recognition system for Tamil handwritten characters using Back propagation Neural network’, International Conference on Artificial Intelligence in Engineering and Technology 2006-ICAIET 2006, University Malaysia Sabah, Malaysia, November 2006, pg. 219-223.

76. Lt.S.Santhosh Baboo, **P.Subashini**, K.S.Easwarakumar , (2006), ‘MCCV based image retrieval for Astronomical images’,Proceedings of International Conference on Web Information Systems and Technologies, WEBIST 2006, Portugal, April 2006.
77. Lt.S.Santhosh Baboo, **P.Subashini**, K.S.Easwarakumar , (2006), ‘Parallel query processing using Warp Edged Bushy trees in Multimedia Databases’,Proceedings of International Conference on Enterprise Information System 2006(ICEIS-2006), Cyprus, Europe, May 2006, cited by – 1.
78. Lt.S.Santhosh Baboo, **P.Subashini**, K.S.Easwarakumar, B.Senthilkumar, 2005, ‘Digital Water-marking for Mobile and PDA Devices based Images’–Proceedings of International conference on GVIP 2005, Egypt, pg.401-406. *Citation – 2*

Poster Publications (4)

1. R Chakkaravarthini, SN Geethalakshmi, **P Subashini** and TT Dhivyaprabha. Digital Apps for Nursing the Health Conditions of Pregnant Women, Infants and Young Children. *ScienceOpen Posters*. 2023. DOI: <https://doi.org/10.14293/P2199-8442.1.SOP-.PUWWLN.v1>
2. **Subashini P**, Krishnaveni M, Dhivyaprabha TT, Malini R, Keerthika V, Kaviya G. (2023). "A contemporary study on solar energy applications and evaluation in real-timeenvironment".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>
3. Pooja Sri Saraswathi A., Vijayabhanu R., **Subashini P.**, Dhivyaprabha T T., Jennyfer Susan M B. (2023). Graph Neural Network: The Next Frontier in Deep Learning. *Science Open Posters*, DOI: 10.14293/P2199-8442.1.SOP-.P9BKIX.v1.
4. Kamalini D, Vijayabhanu R and **Subashini P.**, Dhivyaprabha T T., Jennyfer Susan M B. (2023). Revolutionizing Chemistry with Artificial Intelligence: Opportunities and Applications, *Science Open Posters*. DOI: 10.14293/P2199-8442.1.SOP-.PSNSPU.v1

Publications in National Conferences (32)

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, **Dr.P.Subashini**, Ms.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. S.Krithika, Dr.S.N.Geethalakshmi, **Dr.P.Subashini**, (2012), 'Image enhancement for automated target recognition in underwater electro optic imagery', National Conference on Computing and Intelligence Systems, D.G.Vaishnav College, Chennai, 12th – 13th Oct 2012, pg.13-16. ISBN – 978-81-905709-3-0.
5. M.Poovizhi, **Dr.P.Subashini**, Ms.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.
6. S.Saranya, **Dr.P.Subashini**, Ms.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.
7. U.Deepika, Dr.S.N.Geethalakshmi, **Dr.P.Subashini**, (2012), 'A preprocessing framework for automatic underwater images denoising', National Conference on Computing and Intelligence Systems, D.G.Vaishnav College, Chennai, 12th – 13th Oct 2012, pg.1-4. ISBN – 978-81-905709-3-0.
8. Dr. **P.Subashini**, S.Priya, (2011), 'A Study on Predictive models for Total Electron Content in Ionosphere', National Conference on Data Warehousing and Data Mining, Gobi Arts College, Gobichettipalayam, 4th – 5th March 2011, pg. 145-153, ISBN – 078-81-910200-1-4.
9. Dr. **P.Subashini**, S.Jansi, (2011), 'A Study on Detection of Focal Cortical Dysplasia using MRI Brain Images, National Conference on Emerging Issues in Computer Applications (EICA'11), KSR College of Engineering, Thiruchengodu, 10th Feb 2011, pg.50.
10. **Dr.P.Subashini**, N.Sridevi, (2010), 'A Study on offline recognition of Handwritten Tamil Characters using Computational Intelligence techniques', National Conference on Advanced Computing, NCAC 2010, DJ Academy for Managerial Excellence, Coimbatore, 24th – 25th Sept 2010, pg. 257-263, ISSN – 0975-0290.
11. Dr.G.Padmavathi, **Dr.P.Subashini**, Ms.D.Devi Aruna, (2010), 'LANMAR with IPSec to Secure Network Layer for Mobile Adhoc Networks' – Proceedings of National Conference on Advanced Computing Technologies (NCACT 2010), Avinashilingam University for Women, Coimbatore, 19th Feb 2010, Pg. 49 – 52, ISBN – 978-93-80381-02-2.
12. Dr.G.Padmavathi, **Dr.P.Subashini**, Ms.D.Devi Aruna, (2009). 'Comparison of Routing Protocols OLSR and ZRP with IPSec to Secure Network Layer for Mobile Adhoc Networks' – Proceedings of National Conference on Network Security and Information Retrieval, RV College of Engineering, Bangalore, 14th December 2009, pg. 40 – 43.

13. Dr.G.Padmavathi, **Dr.P.Subashini**, M.Muthukumar, Mr.Suresh kumar Thakur, (2009). 'Performance Comparison of Median Filters for Impulse Noise removal in Underwater images' – Proceedings of National Conference on Network Security and Information Retrieval, RV College of Engineering, Bangalore, 14th December 2009, pg. 24 – 31.
14. R.Ushadevi, **Dr.P.Subashini**, (2009). 'SAR image classification using Stationary Wavelet Transformation' – Proceedings of National Conference on 'Emerging trends in Computer Science', Avinashilingam University for Women, Coimbatore, 13th March 2009, pg. 12.
15. M.Muthukumar, **Dr.P.Subashini**, Dr.G.Padmavathi, (2009) 'Enhancement of Sonar images using Piecewise stretching technique' – Proceedings of National Conference on 'Emerging trends in Computer Science', Avinashilingam University for Women, Coimbatore, 13th March 2009, pg. 15.
16. S.Angel, **Dr.P.Subashini**, Dr.G.Padmavathi, (2009), 'Edge Detection using LOG method for IR images' – Proceedings of National Conference on 'Emerging trends in Computer Science', Avinashilingam University for Women, Coimbatore, 13th March 2009, pg. 14.
17. P.Krishnaveni, **P.Subashini**, (2008), 'Skew Correction using Wigner-Ville Distribution' – Proceedings of National Conference on Research Areas in Computer Science, SRM University, Chennai, 24th-25th April, (2008), pg.9-10.
18. R.Vijayabhanu, S.Uma Maheswari, **P.Subashini**, (2008), 'Tamil Handwritten Character Recognition using Multi-layer Perceptron Neural network' – Proceedings of National Conference on Soft Computing, Image Processing and Network Management((2008)), Karpagam college of engineering, Coimbatore, 27th-28th March (2008), pg. 21-22.
19. T.Dhupati, **P.Subashini** (2008), 'Hierarchical Clustering in Web Mining' – Proceedings of national conference on "Recent Research Trends in Information Technology"(NCRIT-(2008)), RV College of Engineering, Bangalore, 7th-8th March (2008), pg.121-126.
20. P.Thangamani, **P.Subashini**, (2008), 'Comparative study of Edge detection methods for Vehicle detection and Recognition' – Proceedings of national conference on "Recent Research Trends in Information Technology"(NCRIT-(2008)), RV College of Engineering, Bangalore, 7th-8th March (2008), pg. 139-143.
21. Divya Baradwaj, **P.Subashini**, (2008), 'Web Mining using Self-Organizing Maps' – Proceedings of national conference on "Recent Research Trends in Information Technology"(NCRIT-(2008)), RV College of Engineering, Bangalore, 7th-8th March (2008), pg.11-15.
22. C.Vimala, **P.Subashini**, ((2008)), 'A modified Edge Detection Algorithm for Object Recognition' – Proceedings of national conference on "Recent Research Trends in Information Technology"(NCRIT-(2008)), RV College of Engineering, Bangalore, 7th-8th March (2008), pg.134-139.

23. **P.Subashini**, M.Krishnaveni, ((2008)), 'Image decomposition using Stationary Wavelet Transformation' – Proceedings of national conference on "Recent Research Trends in Information Technology"(NCRIT-(2008)), RV College of Engineering, Bangalore, 7th-8th March (2008), pg. 111-112.
24. P.Krishnaveni, **P.Subashini**, (2007), 'Thinning of Tamil Characters for Feature Extraction' – Proceedings of National Conference on Information Systems and Computer Engineering-NICE 2007, RV College of Engg, Bangalore, 5th-6th Oct 2007, pg. 137-143.
25. 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.
26. 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.
27. **P.Subashini** N.Valliammal, K.Meenakshisundaram, (2007), 'A study on performance evaluation for Fractal image compression using Genetic Algorithm', Proceedings of National Conference on Data Mining and its applications, Gobi arts college, Gobichettipalayam, March 2007.
28. G.T.Prabavathi, **P.Subashini**, (2006), 'Mining of Documents in Digital Library using Self-Organizing Map', National Conference on Computing and Communication 2006, Dr.Mahalingam College of Technology, Pollachi, September 2006.
29. **P.Subashini**, N.Valliammal, Dr.S.C.Sharma, (2006), 'Secured Tamil handwritten Digital Contents using Watermarking Technique', Proceedings of National Symposium on Computer Vision and Image Processing 2006, SFR College for Women, Sivakasi, August 2006, pg. 13-22.
30. **P.Subashini**, N.Valliammal, (2006), 'Securing images using Watermarking Techniques', Proceedings of National Conference on Advanced development in Network and Intelligent Computing, ADNIC 2006, Adhiyaman College of Engineering, Hosur, March 2006.
31. Lt.S.Santhosh Baboo, **P.Subashini**, (2005), 'Content Based Image Retrieval' –Proceedings of National Conference on Emerging trends in Information Technology, 29th, 30th April 2005, Bishop Heber College, Trichy.
32. **P.Subashini**, (2003), Women and IT- Proceedings of National level Seminar on Accessibility of IT for rural community on 24th Jan'03, Karpagam Polytechnic College, Coimbatore.

Articles published (5)

1. 'Indiavil Karpa pai vai puttru noi' - Vignana Chudar, Scientific monthly magazine, Saradalaya Press, Avinashilingam Education trust institutions, Coimbatore, September – October 2012, Reg. No. CB/017/2012-2014.

2. 'Urugum paniyum athan abaayamum' – Series of articles in Vignana Chudar, Scientific monthly magazine, Saradalaya Press, Avinashilingam Education trust institutions, Coimbatore from January 2011, Reg. No. CB/017/2009-2011.
3. 'Neervazh Nunnirigal' –Vignana Chudar, Scientific monthly magazine, Saradalaya Press, Avinashilingam Education trust institutions, Coimbatore from January 2011, Reg. No. CB/017/2009-2011.
4. 'Water Pollution' – Series of articles in Vignana Chudar, Scientific monthly magazine, Saradalaya Press, Avinashilingam Education trust institutions, Coimbatore from September 2010 to January 2011, Reg. No. CB/017/2009-2011.
5. 'Padarnthu Varum Paasigal' – Series of articles in Vignana Chudar, Scientific monthly magazine, Saradalaya Press, Avinashilingam Education trust institutions, Coimbatore from November 2009 to September 2010, Reg. No. CB/017/2009-2011.

Invited Talks (79)

1. Invited talk on the topic "Education in AI", Seven Day International Virtual Faculty Development Programme on 'Exploring Technological Advancements: A Voyage into Emerging Horizons', Department of Computer Science, Sri S.Ramasamy Naidu Memorial College, Sattur, Tamilnadu, 24th November 2023.
2. Guest lecture on "Prediction, Detection and Reduction - Magic of AI in Mechanical Applications" in the All India Seminar on "Interfacing Mechanical Engineering with Artificial Intelligence and Machine Learning", Institution of Engineers (India), Coimbatore Local Centre in association with Department of Mechanical Engineering, SNS College of Technology, Coimbatore, 11th October 2023.
3. Invited Talk on 'Responsive AI', IV Short term capacity building programme on 'AI in Education', AIU-AI-AADC, Avinashilingam University, Coimbatore, 19th – 30th June 2023.
4. Invited Talk on 'Demarcation of Wakes from SAR images of Rough Sea condition', Technical Session on SAR, Geospatial World forum 2023, Rotterdam, Netherlands, 2nd – 5th May 2023.
5. 'Machine Learning for Nutritional Genomics Studies', International Symposium on 'Convergence of Nutrigenomics, Gut Health, Precision Health and Big Data', Avinashilingam University for Women, Coimbatore , 17th April 2023.
6. 'Education Data Science', Intelligent Systems and Machine Learning Research Cluster, Athabasca University, Canada, 4th April 2023.
7. Plenary Lecture on "Role of Artificial Intelligence on Early Cancer Diagnosis", International Conference on Artificial Intelligence and Computer Vision : AICV'23, Marrakech, Morocco, 5th – 7th March 2023.
8. Lead Talk on "Role of Artificial Intelligence on Early Cancer Diagnosis", UGC Sponsored Two-Day International Conference on Innovations in the Sphere of Biological

sciences : ISBS 2023, Avinashilingam University for Women, Coimbatore , 16th Feb 2023.

9. Plenary Lecture on 'Evolutionary Computing for Societal Challenges', 1st International conference on Artificial Intelligence: Advanced Topics and Social Issues: AIATSI 2022, 22nd – 23rd November 2022, Marrakesh, Morocco (Online).
10. 'Best Practices – Infrastructure and Learning resources, a Modern and Model Learning management system', National Seminar on Best Practices of Avinashilingam Institute fostering NAAC Assessment Criteria, 28th Sept 2022.
11. 'ICT based Exercises', Faculty Improvement Programme, Avinashilingam University for Women, Coimbatore, 5th April 2022.
12. 'e-Content Development', Airforce School, Coimbatore, 29th March, 2022.
13. 'Artificial Intelligence meets other Disciplines', AI Awareness programme for Faculty Members, Avinashilingam University for Women, Coimbatore, 8th Nov 2021.
14. 'Artificial Intelligence in Tamil Computing', International Workshop on 'Artificial Intelligence in Tamil', Avinashilingam University for Women, Coimbatore, 26th Oct 2021.
15. 'Digital Literacy & Effective use of Social Media', Capacity Building & Personality Development Program (PDP), Kongu Arts and Science College, Erode, 20th – 23rd Oct 2021.
16. Keynote Address on 'Reinforcement Learning for Intelligent Devices', The 2nd International Conference on Artificial Intelligence and Computer Vision (AICV'2021), Morocco. (Online)
17. 'Optimized Machine Learning approaches for Brain Computer Interface', two-day international Conference on Current Trends in Advanced Computing (ICCTAC 2021), Kristu Jeyanti College, Bengaluru, June 4th, 2021.
18. 'Art of writing a Research Proposal', Faculty Development Programme on "Trends and Challenges in Current Research", Department of Software Systems and Computer Science (PG), KG College of Arts and Science from 19th April 2021 to 23rd April 2021.
19. 'Basics of Artificial Intelligence Applications', Virtual National Workshop on Artificial Intelligence and its Multi-Disciplinary Stances (AIMS-2021), Gandhigram Rural Institute, 22nd – 27th March, 2021.
20. 'Research Project proposal – a 360° View', Kongu Arts and Science College, Erode on 12th March 2021.
21. 'Research projects and Funding agencies' in three days Faculty Orientation Programme by D.G.Vaishnav College, Chennai on 12th February 2021.
22. 'Funding opportunities to promote innovative Research in Music', UGC-STRIDE sponsored 5 day training programme on Environmental Sustainability and Research Ethics Research Scholars, Avinashilingam University for Women, Coimbatore on 4th Feb 2021.

23. 'Application of Artificial Intelligence in Home Science', UGC-STRIDE sponsored 5 day training programme on Environmental Sustainability and Research Ethics Research Scholars, Avinshilingam University for Women, Coimbatore on 4th Feb 2021.
24. 'Research / Project Proposals preparation', IQAC Cell, Avinshilingam University for Women, Coimbatore on 9th Nov 2020.
25. 'Nuances of Research Proposals', Resource Person, Hindusthan college of Arts and Science, Coimbatore on 14th Oct 2020.
26. '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.
27. 'Artificial Intelligence – A Research perspective', International Conference on Recent Advances in Communications and Computing Techniques, Women's Christian College, Chennai, 25th Jan 2020.
28. 'Significance of Artificial Intelligence for children with special needs', Guest Lecture at Department of Special Education, Avinashilingam University for Women, Coimbatore on 07th Jan 2020.
29. 'Art of Research Proposals writing', Resource Person, SDNB Vaishnav college for Women, Chennai on 30th Nov 2019.
30. 'Research / Project Proposals writing', Guest Speaker at Nirmala Annual Research Congress, Nirmala college for Women, Coimbatore on 27th Nov 2019.
31. 'Optimization using Computational Intelligence', Refresher Course on Computer Applications, Bharathiar University, Coimbatore, 23rd Sept 2019.
32. 'Research Funding Proposals in Computer Science', Guest Speaker at Faculty Development Programme, Sri Krishna Arts and Science College, Coimbatore, 29th Dec 2018.
33. 'Smart inclusive city projects and achievements in INDIA', Invited talk in Session CT2: Inclusive cities and the digital divide, Smart City Expo Casablanca, (SCE 2018), Casablanca, Morocco, 19th April 2018.
34. 'Defining accessible Smart cities based on closed and open source mobile apps', Opening talk in CREATHON Smart City Connect, SCE 2018, Casablanca, Morocco, 20th April 2018.
35. 'Applications of Computational Intelligence for Energy Optimization', Key note talk at International Conference on Renewable Energies Power Systems and Green Inclusive Economy 2018(REPS & GIE), University of Hassan II Casablanca, Morocco on 24th April 2018.
36. 'Inclusive Smart Cities for Specially abled people', Keynote Address in Mediterranean Symposium on Smart City Applications', (SCAMS 2017), Tangier, Morocco, 25th – 27th Oct 2017.

37. 'Computational Intelligence in Image Processing', National Conference on Image processing and Pattern Recognition, Department of Computer Science and Applications, Adhiparasakthi College of Arts and Science, Vellore on 30th Aug 2017.
38. 'Opportunities in Computer Science', Association function of PG and Research Department of Computer Science, Government Arts College, Coimbatore on 3rd March 2017.
39. 'eWaste Management', NSS Special camp Unit X, Avinashilingam University for Women, Theenampalayam, Thondamuthur, 20th Feb 2017.
40. 'Research Funding Proposals in Computer Science', Faculty Development Programme, Centre for Research and PG and Research Department of Computer Science, Dr. N.G.P. Arts and Science College, Coimbatore, 30th Jan 2017.
41. 'Nature Inspired Computing', Key Note Address in National Conference on Computational methods, Communication Techniques and Informatics- NCCCI 2017, 27th Jan 2017 , Gandhigram Rural Institute, Gandhigram.
42. 'Research proposal writing and Funding Agencies', Research Colloquium, Department of Computer Science, Kristu Jayanti College, Bangalore, 26th Nov 2016.
43. 'Big Data – an introduction', One day Seminar on Big Data and Data Analytics, Department of Information Technology, Sankara College of Science and Commerce, Coimbatore, 12th Aug 2016.
44. 'Research/Project proposal writing', Quality Improvement Program, Department of Computer Science, Christ University, Bangalore, 4th May 2016.
45. 'Eservices', NSS Special camp Unit X, Avinashilingam University for Women, Theenampalayam, Thondamuthur, 23rd March 2016.
46. 'Optimization using Particle Swarm Intelligence', AICTE sponsored short term course on "Soft Computing and its Applications", Coimbatore Institute of Technology, Coimbatore, 15th Feb 2016.
47. 'Data mining – Future Directions', UGC sponsored workshop on "Research Directions in Data mining", Gobi Arts and Science College, Gobichettipalayam, 22nd Jan 2016.
48. 'Women Empowerment through research', Workshop on Women in Engineering, IEEE TENCON 2015, Region 10 and University of Macau, Macau, November 1st – 4th, 2015.
49. 'Optimized Segmentation for MRI brain images', Technical track on Applications of Image Processing, IEEE TENCON 2015, Region 10 and University of Macau, Macau, November 1st – 4th, 2015.
50. 'Interdisciplinary Research project writing' in two days National Seminar on Interdisciplinary and Transdisciplinary Approach in Research by D.G.Vaishnav College, Chennai on 14th March 2015.
51. 'Research/Project proposal writing', Shrimathi Devkunvar Nanalal Bhatt Viashnav College for Women, Chennai on 24th Jan 2015.

52. 'Research proposal preparation', Sri Ramakrishna College of Arts and Science for Women, Coimbatore on 20th March 2014.
53. 'Research proposal preparation' in two days National Seminar on Technical report writing by D.G.Vaishnav College, Chennai on 27th – 28th Sept 2013.
54. 'Applications using Bio Inspired Computing' – Mini Symposia on 'Bio inspired Computing' in 2nd IEEE sponsored Cybernetics Summer School, CSS 2013 organized by VSB Technical University, Ostrava, Czech Republic on 19th – 22nd August 2013.
55. 'Advancements in Medical Engineering' – National level workshop on Research issues in Image processing organized by Department of Computer Applications, KSR College of Technology, Tiruchengodu on 05th Jan 2013.
56. 'Fuzzy Image processing' – National level workshop on Research issues in Image processing organized by Department of Computer Applications, KSR College of Technology, Tiruchengodu, 05th Jan 2013.
57. 'Web based Research databases and software' – Research Convention 2012, Avinashilingam University, Coimbatore, 15th Sept 2012.
58. Cooperation between IRIS, University of Stuttgart and Department of Computer Science, Avinashilingam University for Women, Coimbatore in the DST-DAAD PPP program, 'Investigating Global Warming effect based on texture of icy lake surface condition from Satellite Imagery', IRIS Colloquium, 16th May 2012.
59. 'Current projects, co operations and future developments on SAR', TerraSAR-X presentation, Corporate Astrium GEO-Information Services, Immenstaad, Germany, 15th May 2012.
60. 'Fuzzy Image Processing' – in the National seminar on "Intuitionistic Fuzzy in Image Processing" sponsored by CSIR conducted by Department of Mathematics, Kongu Engineering College, Perundurai on 02.03.2012.
61. 'Tools and Programming in Matlab' in two day Faculty Development programme to be organized by Kathir College of Engineering, Coimbatore during 17th – 18th Feb 2012.
62. 'Shakthi Office Show – an introduction' in Certificate Course on Tamil Computing organized by Department of Tamil, D.G.Vaishnav College, Chennai on 28th Jan 2012.
63. 'Shakthi Office Write – an introduction' in Certificate Course on Tamil Computing organized by Department of Tamil, D.G.Vaishnav College, Chennai on 27th Jan 2012.
64. 'Shakthi Office – an introduction' in Certificate Course on Tamil Computing organized by Department of Tamil, D.G.Vaishnav College, Chennai on 22nd Jan 2012.
65. 'Tamil websites and Tamil software – an introduction' in Certificate Course on Tamil Computing organized by Department of Tamil, D.G.Vaishnav College, Chennai on 21st Jan 2012.
66. 'Tamil websites – an introduction' in Certificate Course on Tamil Computing organized by Department of Tamil, D.G.Vaishnav College, Chennai on 20th Jan 2012.

67. 'Introduction to Funding Organizations' in two days National Seminar on Research methodology and project proposal preparation by D.G.Vaishnav College, Chennai on 14th – 15th Oct 2011.
68. 'Research proposal preparation' in two days National Seminar on Research methodology and project proposal preparation by D.G.Vaishnav College, Chennai on 14th – 15th Oct 2011.
69. 'Research Projects in Computer Science' in Refresher course in Computer Science organized by the Academic Staff College, Bharathiar University, Coimbatore on 24th May 2011.
70. 'Wavelet based Image denoising using Ant colony optimization technique for identifying ice class in SAR imagery' in IEEE UNB Chapter, University of New Brunswick, Saint John, Canada on 3rd May 2011.
71. '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.
72. 'W5H of Research' in the Valedictory function of Student's Association organized by Saraswathi Thiagaraja College, Pollachi, 21st March 2011.
73. "A PIP into MATLAB Image Processing toolbox" in the 'Faculty Development Program' organized by MCA Department, Siddhaganga Institute of Technology, Tumkur, 21st – 22nd January, 2011.
74. "Preparation of Research Proposals" in the 'Faculty Development Program' organized by MCA Department, Siddhaganga Institute of Technology, Tumkur, 23rd - 24th October, 2010.
75. "Neural Networks in Image Processing" in the National Conference on Artificial Neural Networks jointly organized by DRDO and Dept. of Mathematics, Kongu Engineering College, Perundurai, 17th – 18th Sept, 2010.
76. "Image Processing using MATLAB" in the 'Faculty Development Program' organized by MCA Department, Siddhaganga Institute of Technology, Tumkur, 28th - 29th June, 2010.
77. "Cognitive Radios" in the 'Continuous Education Program for Scientists' organized by National Physical and Oceanographic Laboratory, Kochi, 12th August, 2009.
78. "Ship and Wake detection in SAR images" in the 'Continuous Education Program for Scientists' organized by National Physical and Oceanographic Laboratory, Kochi, 12th August, 2009.
79. "Image Processing using MATLAB" in the one day National workshop on MATLAB, DG Vaishnav college, 30th January, 2009.
80. "Virtual Reality" in a Seminar on 14th Sep' 01, Dr. SNS Rajalakshmi college of Arts and Science, Coimbatore.

Papers Presented at National / International Conferences (20)

1. 'Red Channel based IRIS segmentation for pupil detection', International Conference on Artificial Intelligence and Computer Vision : AICV'23, 5th – 7th March 2023.
2. 'Synergistic Fibroblast Optimization Based Improved Reinforcement Learning For Intelligent Assistive Device', 2017 IEEE Symposium Series on Computational Intelligence (SSCI 2017), Honolulu, Hawaii, USA, 27th – 29th Nov 2017.
3. 'Survey on Nature Inspired Algorithms for Smart city Applications', Mediterranean Symposium on Smart City Applications', (SCAMS 2017), Tangier, Morocco, 25th – 27th Oct 2017.
4. 'Hybrid Particle Swarm Optimization Algorithm Based on Cellular Organism Behavior for Solving Complex Non Linear Problems in Dynamic Environments', 18th International Conference on Researches in Science & Technology (ICRST) organized by World Association for Scientific Research and Technical Innovation, Rome, Italy, 9th- 10th June 2017.
5. 'Texture Feature Extraction of Infrared River Ice Images using Second-order Spatial Statistics', International Conference on Computer Vision, Image and Signal Processing, ICCVISIP 2013, World Academy of Science, Engineering and Technology, WASET, Barcelona, Spain, Feb 27th -28th 2013.
6. 'Impact of Technology use on Minority student's academic achievement', UGC sponsored National Seminar on India's Infrastructure-Challenges, Initiatives and Perspectives, Avinashilingam University for Women, Coimbatore, 15th – 16th Dec 2011.
7. 'A linear framework for identification of ship and its velocity estimation using SAR images' – International Conference on Computer Science, Engineering and Information Technology, CCSEIT 2011, 23rd – 25th Sept 2011 at M.S.University, Tirunelveli.
8. 'Imputation of missing data using Bayesian principal component analysis on TEC ionospheric satellite dataset' – IEEE international workshop on Sensor networks for Intelligent monitoring and Gathering, SNIGM 2011, Niagara falls, Ontario, Canada, May 8th – 11th, 2011.
9. 'Data Fusion by Intelligent Classifier Combination-A Review' – International Conference on Mathematics and Computer Science, ICMCS 2011, Loyola college, Chennai, 7th – 9th January, 2011.
10. 'A combined preprocessing scheme for texture based Ice classification from SAR images' – ACM-W Conference on Women in Computing, A2CWIC'10, Amrita University, Coimbatore, 16th-17th Sept 2010.
11. 'Coupling optimal method of segmentation with restoration for target detection in SAR images' – IEEE International Conference on Computer and Automation Engineering, ICCAE 2010, Singapore, 26th Feb – 28th Feb 2010.

12. 'Quantitative performance evaluation on segmentation methods for SAR ship images' – International Conference of ACM Bangalore chapter, COMPUTE 2010, 22nd – 23rd January 2010.
13. Presentation of the ongoing research work during the National Symposium on Research Methodologies and Techniques, RV College of Engineering, Bangalore, 2nd-3rd June 2008.
14. 'Thinning of Tamil Characters for Feature Extraction' - – Poster presentation in National Conference on Information Systems and Computer Engineering-NICE 2007, RV College of Engineering, Bangalore, 5th-6th Oct 2007.
15. Secured Tamil handwritten Digital Contents using Watermarking Technique- National Symposium on Computer Vision and Image Processing 2006, SFR College for Women, Sivakasi.
16. Content Based Image Retrieval – National Conference on Emerging trends in Information Technology, 29th, 30th April 2005, Bishop Heber College, Trichy.
17. Women and IT- National level Seminar on Accessibility of IT for rural community on 24th Jan'03, Karpagam Polytechnic College, Coimbatore.
18. Geographic Information System – Refresher Course in Computer Science – Bharathiar University, Coimbatore.
19. Technology and the Environment – Need based Refresher Course on Environment Education – Bharathiar University, Coimbatore.
20. Computer Aided Teaching – 35th Orientation Course – Bharathiar University, Coimbatore.

Editorial ship

- Co-Editor, Springer publication in the Smart Innovation, Systems and Technologies Book series, 2020
- Editor, NOVA Science Publishers, New York, USA.
- Editor, GASCIAN Journal of Science and Applications.
- Editorial board member in International Journal of Information Technology, Control and Automation (IJITCA).
- Editorial board member in International Journal of Engineering and Advanced Technology (IJEAT).
- Co-Editor for the Special issue on 'Advanced Multimedia Networking' in WSEAS Transactions on Systems to be published in August 2012, Print ISSN: 1109-2777, E-ISSN: 2224-2678

- Editorial board member in Journal of Computational Intelligence And Electronic Systems, American Scientific Publishers, USA
- Editorial board member of Machine Learning and Applications: An International Journal (MLAIJ)

Reviewer of Journals (12)

- International Journal SPIE – Optical Engineering, USA.
- International Journal of Advanced Computing, India
- Defense Science Journal, India
- IST Press, Canada
- Educational Research and Reviews(ERR), Academic Journals, Victoria Island, Lagos
- World Scientific and Engineering Academy and Society – WSEAS
- EURASIP Journal on Advances in Signal Processing, Springer
- International Conference on Soft Computing, Artificial Intelligence - (SAI 2013), Dubai, UAE.
- British Journal of Mathematics & Computer Science, Sciencedomain International, UK.
- Journal of Neuro Computing, Elsevier.
- Elsevier Journal of Computer Methods and Programs in Biomedicine
- International Journal of Research and Scientific Innovation (IJRSI)

Membership in professional bodies (19)

- IEEE Member – Membership number : **92588501**
- IEEE Computational Intelligence Society Member
- IEEE Computer Society of India Member
- IEEE Green ICT Community Member
- ACM Membership No. - **4491456**
- Indian Academy of Social Sciences.
- Indian Science Congress
- Forum for Women IT Professionals
- Universal Professional Association
- International Association of Computer Science and Information Technology-IACSIT
- World Scientific and Engineering Academy and Society – WSEAS
- Advanced Computing Research Society – ACRS
- International Association for Engineers, Hong Kong – IAENG

- Senior Member in Universal Association of Computer and Electronics Engineers and Universal Association of Mechanical and Aeronautical Engineers, UACEE/UAMAE, Institute of Research Engineers and Doctors (Membership-Id SNM1002635)
- Life member, Center for Education Growth and Research, Newdelhi
- Member in Indo US Collaborative for Engineering Education (IUCCE), Research Cluster – Image Processing and Machine Learning, University of Massachusetts Lowell, USA
- Life member – Advanced Computing and Communications Society. India. Membership Id – L31194A1623495.
- Life member - World Association for Scientific Research and Technical Innovation (WASRTI).
- Member - Association of Scientists, Developers and Faculties (ASDF), Membership ID – 7637666591054004.

Awards / Prizes (13)

- **‘Best Innovative product** – Anti-sleep Glass for Drivers’, One day Intra University Innovative Product Display Competition, Avinashilingam University for Women, 11th August, 2022
- **‘நம் மண்ணின் படைப்பாளி விருது’**, விதைகள் வாசகர் வட்டம், Sathymanagalam, 17th July 2022.
- **‘பாரதி கண்ட புதுமைப் பெண்’**, Award by Women Development Cell, Gobi Arts College, Gobichettiplayam, 8th March 2022.
- **Best paper Award** for ‘Improved Noise Filtering Technique for Wake Detection in SAR Image Under Rough Sea Condition’, 2021 IEEE World AllIoT Congress (AllIoT). Seattle, 12th May 2021.
- **Best paper Award** for Cost Analysis of the Optimized Two Phase Retrieval Queueing System in Call Centers. International Conference on Data Analytics & Computational Mathematics. Coimbatore, 29th Feb 2020.
- **Best paper Award** (Mobile Computing Track) for ‘Wireless based CO₂ Monitoring system for Mushroom Cultivation’, International Conference on Research and Innovations in Computational Intelligence (RICI 2019), 4th Feb 2019, Ramakrishna Women’s college, Coimbatore.

- **Best paper Award** (Machine Learning Track) for ‘Motility Factor based Optimized Q-Learning Algorithm for intelligent Walking Cane’, International Conference on Research and Innovations in Computational Intelligence (RICI 2019), 4th Feb 2019, Ramakrishna Women’s college, Coimbatore.
- **Best Paper Award** for Paper Presentation, “A Study on Node Placement Strategies in Wireless Sensor Networks”, International conference on Social Mobile Analytics Cloud, International Journal of Theoretical & Applied Science, Special Issue released for International Conference on SMAC – Reshaping the future, Avinashilingam University for Women, Coimbatore, Feb 9th 2018.
- **First prize for Paper Presentation**, “Energy Consumption Analysis in WSN Based on Node Placement Strategies”, 1st International Conference on Information Security Risks – Techno Legal Management TeLIMISR-2018, Vivekanandha Institute of professional Studies, New Delhi, May 21st & 22nd 2018.
- **‘Special Award – Technology for Social Applications – Computer Assistive Technology for Differently abled students’**, by Integrated Intelligent Research Group, Chennai, 18th Jan 2018.
- **‘ஆசிரியச்செம்மல்’**, Award bestowed by ‘Dr.ராதாகிருஷ்ணன் அறக்கட்டளை’, Chennai, 5th Sept 2017.
- **Best paper award** for the paper titled ‘Hierarchical Clustering in Web Mining’ – in National conference on “Recent Research Trends in Information Technology”(NCRIT-2008), RV College of Engineering, Bangalore, 7th-8th March 2008.
- **Best poster presentation award** for the paper titled ‘Thinning of Tamil Characters for Feature Extraction’ in National Conference on Information Systems and Computer Engineering-NICE 2007, RV College of Engineering, Bangalore, 5th-6th Oct 2007.

Abroad Visits (34)

- Manila, Philippines, 14th – 21st Oct 2023
- Rotterdam, Netherlands, 2nd – 5th May 2023
 - Invited Talk, Geospatial World forum 2023 held in Rotterdam, Netherlands during 2nd – 5th May 2023.
- 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 ‘Role of Artificial Intelligence on Early Cancer Diagnosis’, International Conference on Artificial Intelligence and Computer Vision AICV 2023
- Session Chair, International Conference on Artificial Intelligence and Computer Vision AICV 2023
- Casablanca, Morocco, 5th – 18th Oct 2019 to participate IEEE ISC2, 2019.
 - Contribute as General co-chair of IEEE International Conference Smart Cities ISC2 2019 to the preparation of the event and take part, as General co-chair representing Avinashilingam University at the opening of IEEE ISC2 2019
 - 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)
 - Work together on the preparation of a book on Frugal Inclusive Smart Cities.
- Casablanca, Morocco, 6th – 14th Sept 2019 to participate in Solar Decathlon Africa (SDA), 2019.
 - Assist E- Co Dar team for the development of IoT/Machine learning based solution of monitoring E – Co Dar Smart home appliances and preparation of the final prototype of E- Co Dar.
 - Participate to Solar Decathlon Africa as representative of Avinashilingam University within E Co Dar consortium and participate to SDA international competition event.
 - 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)
 - Work together on the preparation of a book on Frugal Inclusive Smart Cities.
- Singapore, 16th – 21st June 2019
- Boston, USA during 13th May – 12th June 2019
- Dubai, UAE during 22nd – 23rd Nov 2018 to visit Solar Decathlon Middle East (SDME) 2018.
- Casablanca, Morocco during 16th – 26th April 2018 for
 - Invited talk at Smart city expo Casablanca 2018 on “Smart Inclusive City projects and achievements in India” at International event Smart City Expo Casablanca on 18th 19th April, 2018
 - Opening talk at Creathon/Hackathon on “Open source mobile apps and platforms for inclusive smart city” in the program of Smart City Connect Casablanca, 20th April, 2018
 - Keynote talk on “Machine Learning and Energy Production-Consumption Profiling” in the opening ceremony session at the International Conference on Renewable

Energies Power Systems and Green Inclusive Economy 2018 (REPS & GIE) on 23th – 24th April 2018

- Participation at 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) on 23rd April 2018
- Presentation of joint work of “e-learning platform” with Pr. Aawatif Hayar at the live demo in e-douar living lab: smart inclusive ecological village on 23rd April, 2018
- Hawaii, Honolulu, USA during 27th – 29th Nov2017 – Paper presentation in IEEE International Symposium Series on Computational Intelligence (IEEE SSCI 2017)
- Tangier, Morocco during 25th – 27th Oct 2017 to give Keynote Speech in Mediterranean Symposium on Smart City Applications’, (SCAMS 2017)
- Zurich, Switzerland during 2nd – 5th June 2017
- Florence, Italy during 6th – 8th July 2017.
- Rome, Italy to participate and present paper in 18th International Conference on Researches in Science & Technology (ICRST), 2017, 9th – 14th June 2017
- Dubai, UAE during 5th – 10th Oct 2016.
- Macau, China to participate in IEEE TENCON 2015 organized by Region 10 and University of Macau, 1st – 4th Nov 2015.
- Singapore, Malaysia during April 10th – 20th 2014.
- Ostrava, Czech Republic to participate in 2nd IEEE sponsored fourth International Conference on Innovations in Bio-Inspired Computing and its Applications, IBICA 2013 organized by VSB Technical University, Ostrava, Czech Republic during 23rd – 24th August 2013.
- Ostrava, Czech Republic to participate in 2nd IEEE sponsored Cybernetics Summer School, CSS 2013 organized by VSB Technical University, Ostrava, Czech Republic during 19th – 22nd August 2013.
- Prague, Czech Republic during 16th – 18th August 2013.
- Barcelona, Spain for presenting paper in the International Conference on Computer Vision, Image and Signal Processing, ICCVISIP 2013, World Academy of Science, Engineering and Technology, WASET during 27th Feb – 28th March 2013.
- University of Stuttgart, Germany under DST-DAAD Project based personnel exchange program during 4th Feb – 6th March 2013.
- ‘Computer Museum’, University of Stuttgart, 22nd May 2012.
- Venice, Italy during 18th – 19th May 2012.
- Corporate Astrium GEO-Information Services, Immenstaad, Germany, 15th May 2012.
- Paris, France during 11th – 13th May 2012.

- Interlaken, Switzerland during 5th – 6th May 2012.
- Cell Biology and Immunology lab, Institute for Biology, University of Stuttgart, 2nd May 2012.
- University of Stuttgart, Germany under DST-DAAD Project based personnel exchange program during 24th April – 23rd May 2012.
- Visit to Niagara Falls, Ontario, Canada for attending IEEE Canadian Conference on Electrical and Computer Engineering, CCECE 2011, 9th -11th May 2011.
- Niagara Falls, Ontario, Canada for attending and presenting a paper in First IEEE International Workshop on Sensor Networks for Intelligence Gathering and Monitoring, SNIGM 2011, 8th May 2011.
- University of New Brunswick, Fredericton, Canada for discussion about collaborative programs, 7th May 2011.
- University of New Brunswick, Saint John, Canada for giving an invited talk in the UNB IEEE Chapter, 2nd – 6th May 2011.
- Singapore for attending and presenting a paper in IEEE International Conference on Computer and Automation Engineering, ICCAE 2010, Singapore, 26th Feb – 28th Feb 2010.
- Nanyang Technological University, Singapore for a Joint Research work with Prof. Sundararajan, School of Electrical and Electronics Engineering from March 1st to March 8th, 2009.

Additional Information (123)

1. Programme Coordinator, IV Short term capacity building programme on ‘AI in Education’, AIU-AI-AADC, Avinashilingam University, Coimbatore, 19th – 30th June 2023.
2. Convener, Two Day online Training on ‘Accelerate Research with Machine Learning using Schrodinger Platform’, 18th – 19th April 2023.
3. Technical Programme Committee member,, 9th HyperUrban.9 conference on information and communication technologies in urban environment, organized under the guest topic: Data Driven City | Data-driven City (<http://hu9.hyperurbain.org/>), Nov 23rd to 25th, 2023, Faculty of Applied Sciences of Ait Melloul, Ibn Zohr University, Agadir, Morocco.
4. Technical Programme Committee member, IEEE International joint conference on Neural Networks organized by International Neural Networks Society: IJCNN 2023, 18th- 23rd June 2023, Australia.
5. Session Chair, ‘International Conference on Modern Artificial Intelligence and Data Science Systems - MAIDSS'22’, Rabat, Morocco, 2nd – 3rd Feb 2023.

6. Panel Discussion on ‘Societal Challenges of Artificial Intelligence through the Prism of a Philosophy of Technology’, 1st International conference on Artificial Intelligence: Advanced Topics and Social Issues: AIATSI 2022, 22nd – 23rd November 2022, Marrakesh, Morocco.
7. Technical Programme Committee member, 1st International conference on Artificial Intelligence: Advanced Topics and Social Issues: AIATSI 2022, 22nd – 23rd November 2022, Marrakesh, Morocco.
8. Participated in Online Inter-Disciplinary Two-Week Refresher Course On “Managing Online Classes & Co-creating MOOCS 18.0” organized by Teaching Learning Centre, Ramanujan College, University of Delhi from 07th – 21st September, 2022.
9. Co-opted member, Interdisciplinary Board, IDB meeting on 08.08.2022.
10. Member Secretary, IT-ICT eGovernance Committee, July 2022 to July 2025.
11. Member of the ‘Core committee for the Innovation, Incubation and Acceleration Centre (AIIAC), June 2022 – 2024.
12. Technical Programme Co-Chair, International Conference on Artificial Intelligence and Computer Vision : AICV’23, 5th – 7th March 2023.
13. Program Committee Member, 12th International Conference on Artificial Intelligence, Soft Computing and Applications (AIAA 2022), Sydney, Australia, December 23rd – 24th, 2022.
14. External Member, External Academic Audit Committee, Gandhigram Rural University, Gandhigram, 30th – 31st May 2022.
15. Member Secretary, IT-ICT Audit Committee, March 2022 to March 2025.
16. International Advisory Committee Member, International Conference on Smart City Applications, SCA2021, Tangier, Morocco, 28th Oct 2021.
17. Session Chair, SESSION26: Image Processing & Recognition Systems 2, International Conference on Smart City Applications, SCA2021, Tangier, Morocco, 28th Oct 2021.
18. Advisory Committee member, International Workshop on ‘Artificial Intelligence in Tamil’, Avinashilingam University for Women, Coimbatore, 25th – 29th Oct 2021.
19. Advisory Committee member, Nirmala College for Women, Coimbatore, 2019-2021.
20. Programme Committee member, The 2nd International Conference on Artificial Intelligence and Computer Vision (AICV’2021), Morocco. (Online)
21. Organizing Secretary, 15 Day training on ‘Mobile App Development using ANDROID’, Centre for Machine Learning and Intelligence, 25th Jan 2021, Avinashilingam University, Coimbatore.

22. Organizing Secretary, 'Synopsys simpleware software for 3D image processing and model generation', Centre for Machine Learning and Intelligence, 4th – 8th Jan 2021, Avinashilingam University, Coimbatore.
23. Organizing Secretary, 5 Day training on 'Google Certification in GSuite for Education', Centre for Machine Learning and Intelligence, 4th – 8th Jan 2021, Avinashilingam University, Coimbatore.
24. Session Chair, 12th International Conference on Soft Computing and Pattern Recognition (SoCPaR 2020), 12th – 18th Dec, 2020, Online.
25. Publication Chair, 2nd International Conference on Artificial Intelligence and Computer Vision (AICV2021), June 28-30, 2021, Morocco
26. Organizing Secretary, Webinar on 'GSuite for Education – a Research Perspective', 27th Oct 2020, Avinashilingam University, Coimbatore.
27. Organizing Secretary, Webinar on 'Insights into GSuite for Education', 22nd Oct 2020, Avinashilingam University, Coimbatore.
28. TPC and Session Chair at Fifth International Conference on Smart City Applications 2020, (SCA 2020) held during Oct 7th – 9th, 2020 at Tangier, Morocco (Virtual due to COVID).
29. Technical Programme Committee Member, 2nd International Conference on Machine Learning & Applications (CMLA 2020), 26th – 27th Sept, 2020, Copenhagen, Denmark.
30. Technical Programme Committee Member, 1st International conference on Artificial Intelligence: Advanced Topics and Social Issues: AIATSI 2020, April 13th - 16th, 2020, Marrakesh, Morocco.
31. Programme Committee member (Track 6. Big Data in Education and Learning Analytics), 19th IEEE International Conference on Advanced Learning Technologies, IEEEICALT2019, 15th – 18th July, 2019, Brazil.
32. Selection Committee member, DST-BDTD project, Feb 2019, Department of Computer Applications, Bharathiar University, Coimbatore.
33. Board of Studies member, 2019, Department of Computer Applications, Sri Ramakrishna Mission Vidyalaya College of Arts and Science, Coimbatore.
34. General Chair, 5th IEEE International Smart Cities Conference, ISC2 2019, 14th – 17th Oct 2019, Casablanca, Morocco.
35. Chair, Keynotes and Panel Committee, International Conference on Networking, Information Systems & Security (NISS 2019), Mediterranean Association of Sciences and Technologies and the Faculty of Sciences and Techniques of Tangier at Rabat, Morocco, 27th – 28th March 2019.
36. Technical Programme Committee Member, International Conference on Networking, Information Systems & Security (NISS 2018), Mediterranean Association of Sciences and Technologies and the Faculty of Sciences and Techniques of Tangier, Morocco, 27th – 28th April 2018.

37. Advisory Committee Member, International Conference on Information Security Risks – Techno Legal Management, Vivekananda Institute of Professional Studies (VIPS), New Delhi, 21st - 22nd May 2018.
38. Reviewer and Organizing Member, International Conference on SMAC, Avinashilingam University for Women, 9th Feb 2018.
39. Technical Programme Committee Member, IEEE International Conference on current trends in Advanced Computing, ICCTAC 2018, Kristu Jayanti College, Bangalore, March, 2018.
40. Inaugural Address, National Conference on Image processing and Pattern Recognition, Department of Computer Science and Applications, Adhiparasakthi College of Arts and Science, Vellore on 30th Aug 2017.
41. Session Chair, National Conference on Computational methods, Communication Techniques and Informatics- NCCCI 2017, 27th Jan 2017 , Gandhigram Rural Institute, Gandhigram.
42. Organizing Secretary, Three day Workshop on Geographical Information System using Open Source Software, Department of Computer Science, Avinashilingam University, 16th – 18th Jan 2017.
43. Advisory Committee Member, IEEE International Conference on current trends in Advanced Computing, ICCTAC 2017, Kristu Jayanti College, Bangalore, 2nd – 3rd March, 2017.
44. Convener, SERB sponsored one day Seminar on ‘Opportunities in Assistive Technology’, 26th Oct 2016.
45. Program committee member, IEEE Symposium Series on Computational Intelligence (SSCI 2016), Athens, Greece, 6th to 9th Dec 2016.
46. Member of Advisory Board and member of Technical Program Committee (TPC), ACM/IEEE sponsored International Conference On Soft Computing in Engineering during 2nd to 4th March 2017 organized by Department of Information Technology, Jaipur Engineering College and Research Centre .
47. Inaugural address, UGC sponsored workshop on "Research Directions in Data mining", Gobi Arts and Science College, Gobichettipalayam, 22nd Jan 2016.
48. Session chair, Technical track on Applications of Image Processing, IEEE TENCON 2015, Region 10 and University of Macau, Macau, November 1st – 4th, 2015.
49. Program committee member / Reviewer of "Third International Conference on Foundations of Computer Science & Technology (CST-2016) " to be held in February 6~7, 2016, Sydney, Australia
50. Program committee member / Reviewer of "International conference on Advanced Computing (ADCOM-2015)", June 27~28, 2015, Bangalore, India
51. Organizing Secretary for the Power seminar organized by Department of Computer Science and ICTACT, Tamilnadu on 12th Dec 2014.
52. Convener for the 26th Convocation and Graduation day celebrations, 9th Dec 2014.

53. Member in the Sub-committee to decide in the seniority of teachers in the Departments, 2014-2015.
54. Member in Internal Review committee – 2014-2017.
55. Member in the committee to frame procedures, recommendations and process to be framed to follow the UGC guidelines on strict implementation of SC/ST reservation policies, 2014.
56. Screening committee member year April, June 2014.
57. Chairperson in Cybroz'14, technical symposium organized by Department of Computer Science, Avinashilingam University for Women, Coimbatore, Jan 21st 2014.
58. Judge for the Exhibition conducted on the 150th Birthday of Swami Vivekananda on 28th Jan 2014.
59. Joint Secretary, Avinashilingam Alumnae Association, 2014
60. Member in the committee to prepare details of recruitment/promotion of non-teaching staff vacancies, 23rd-24th Dec 2013.
61. Screening committee member for the selection of Professor, Associate Professor, Assistant Professors- Nov 2013.
62. Advisory Committee member for Dr.Ambedkar's Study Center during 12th five year plan, 2013
63. Member of DST-CURIE Phase-II Committee.
64. Member of Board of Studies, 2013, 2014, 2015, 2016.
65. Member of the Committee to study UGC Regulations, 2012 for promotion and maintenance of standards of Academic collaboration between Indian and Foreign educational Institutions, October 2013.
66. Member in the University Anti-sexual harassment committee, 2012-2013.
67. Member in the Committee for scrutinizing ready reckoner of UGC regulations on minimum qualifications of teachers and other academic staff in Universities both direct recruitment, CAS - Amendment June 2013, October 2013.
68. Program committee member / Reviewer of ITCSE 2013 to be held in Bangalore, India.
69. Session Chair, Fourth International Conference on Innovations in Bio-inspired Computing and Application held on 22nd-24th August 2013 by Faculty of Electrical Engineering and Computer Science, VSB-Technical University, Ostrava, Czech Republic.
70. Program committee member, "The Second International Conference on Control, Modelling, Computing and Applications" (CMCA-2013) to be held in Dubai, UAE.
71. Program committee member "International Conference on Soft Computing, Artificial Intelligence" (SAI 2013) to be held in Dubai, UAE.

72. Organizer, Instructor in the mini symposia on Bio-inspired computing for the Cybernetics summer school(CSS 2013) to be held on 19th-22nd August 2013 by Faculty of Electrical Engineering and Computer Science, VSB-Technical University, Ostrava, Czech Republic.
73. Organized 'Emotional Intelligence for IT Professionals' – Valedictory of Student's Association meeting on 18th March 2013.
74. Session Chair in the International Conference on Computer Vision, Image and Signal Processing, ICCVISIP 2013, World Academy of Science, Engineering and Technology, WASET, Barcelona, Spain, Feb 27th -28th 2013.
75. Co-ordinator for 'Cybroz – 2013', Cybroz'12, technical symposium organized by Department of Computer Science, Avinashilingam University for Women, Coimbatore, January 24th 2013.
76. Session Chair, Second International Conference on Computational Science, Engineering and Technology, CCSEIT 2012, Avinashilingam University for Women, Coimbatore, 26th -28th Oct 2012.
77. Special session organizer on "Advanced Mobile networking", International Congress on Image and Signal Processing, CISP 2012, to be organized during 16th – 18th Oct 2012 at Chongqing, China.
78. Chair person, National Conference on Computing and Intelligence Systems, D.G.Vaishnav College, Chennai, 12th – 13th Oct 2012.
79. Organized 'Lab on Cloud' – Student's Association meeting on 21st Sept 2012.
80. Organized 'Mobile applications using Open source software' – Student's Association meeting on 6th August 2012.
81. International Program committee member for 4th International Conference on Computer and Communication Engineering ICCCE 2012 held during 3rd – 5th July 2012 at Kuala Lumpur, Malaysia.
82. International Program committee member for 13th WSEAS International Conference on Neural Networks (NN '12) to be held by G. Enescu University, Iasi, Romania in June 13-15 , 2012.
83. International Program committee member for 11th WSEAS Int. Conf. on Computational Intelligence, Man-Machine Systems And Cybernetics (CIMMACS '12) to be held in Singapore, May 11-13, 2012.
84. Chief guest for the inaugural function in the National seminar on "Intuitionistic Fuzzy in Image Processing" sponsored by CSIR conducted by Department of Mathematics, Kong Engineering College, Perundurai on 02.03.2012.
85. Advisory Committee member for National Conference on Computer Vision and Communication Systems, Kathir College of Engineering, Coimbatore held on 27th April 2012.
86. Organized 'Project Meet 2012' during 20th Feb 2012.

87. Co – Chairman for the session ‘Systems Biology and Computational Biology’ in the Indo-Korean Conference on Integartive BioScience Research for the Era of Genomics, Avinashilingam University, Coimbatore during 11th Feb 2012.
88. Executive Committee member for the Indo-Korean Conference on Integartive BioScience Research for the Era of Genomics, Avinashilingam University, Coimbatore held during 10th – 11th Feb 2012.
89. Academic Consultant for the ‘Certificate Course in Tamil Computing’ to be conducted by Department of Tamil, DG Vaishnav College, Chennai during Jan – Feb 2012.
90. Chair person for the Technical session on ‘Topology and Fuzzy Topology’ in the International Conference on Mathematics and its applications – a new wave (ICMANW 2011) on 21st – 22nd Dec 2011, Avinashilingam University for Women, Coimbatore.
91. Member in University Examination Committee, 2011-2012, 2012-2013.
92. Extrenal Examiner for D.Sc. Viva Voce examination conducted by Tumkur University, Tumkur on 28th Sept 2011.
93. Chair person in International Conference on First International Conference on Computer Science, Engineering and Information Technology (CCSEIT-2011) during September 23~25, 2011 organized by M.S. University, Tirunelveli.
94. Member of Technical committee for the University IT Infrastructure Maintenance.
95. PG project co-ordinator for the year 2011-2012.
96. Advisory Committee member, International Conference on Computing, ICC 2011, New Delhi, 28th – 29th Dec 2011.
97. Technical committee member in International Conference on Mechanical and Electrical Engineering ICMET 2011 held in August 26-27, 2011 at Dalian, China.
98. Organized a Special session on “Advanced Mobile networking”, International Conference on Software Engineering and Computer Systems ICSECS 2011, Malaysia during 27th – 29th June 2011 at Pehang, Malaysia.
99. Program committee member for IEEE International Conference on Communication systems and Network Technologies, CSNT 2011 held in June 3-5, 2011 at Katra, Jammu& Kashmir, India.
100. Program committee member for First IEEE International Workshop on Sensor Networks for Intelligence Gathering and Monitoring, SNIGM 2011 to be held in May 8-11, 2011 at Niagara falls, Canada.
101. Visiting Researcher to University of New Brunswick, Saint John, Canada for collaborative Research discussions with Department of Computer Science and Applied Statistics, University of New Brunswick, St.John, Canada, 2nd – 6th May 2011.
102. University nominee for Board of Studies, MCA Department, VLB Janaki Ammal College of Engineering, Coimbatore, 9th April 2011.

103. Chairperson in Cybroz'11, technical symposium organized by Department of Computer Science, Avinashilingam University for Women, Coimbatore, March 7th 2011.
104. Board member for Board of Studies, Gobi Arts College, Gobichettipalayam, 6th March 2011.
105. Chair person in International Conference on Computing, ICC 2010, New Delhi, Dec 27th – 28th, 2010
106. Chair person in UGC sponsored National Conference on Data Warehousing and Data Mining, Gobi Arts College, Gobichettipalayam, 4th – 5th March 2011.
107. Organized a Special session in International Conference on Computing, ICC 2010, New Delhi, Dec 27th – 28th, 2010.
108. Organized Seminar on 'Cyber Security' on 20th Dec, 2010.
109. Organized four day workshop on 'Personality Development' on 27th Sept – 1st Oct 2010.
110. Chairperson in the National Conference on Artificial Neural Networks jointly organized by DRDO and Dept. of Mathematics, Kongu Engineering College, Perundurai, 17th – 18th Sept, 2010.
111. Organized NRB-DRDO sponsored two day seminar on 'Emerging Technologies in Satellite Imagery' on 29th – 30th April 2010.
112. Organized two day Workshop on 'Open Source Software' on 28th – 29th January 2010.
113. Organizing Secretary for the two day International Workshop on Bio-inspired Computing on 21st – 22nd December 2009.
114. Organizing Secretary for the one day International Seminar on Information Security on 14th December 2009.
115. Co-convener for the seven day workshop on 'Ethical Hacking and Information Security' organized during 30th Sept-8th Oct 2009.
116. Co-convener for the two days International Workshop on 'Research Methodologies and Techniques' organized during 18th-19th July 2008.
117. Organized one week workshop on 'J2EE/PHP' from 28.08.2007 to 03.09.2007.
118. Organized one day seminar on 'Multimedia' on 23.08.2007.
119. Organized three days Workshop on VC++ from 25.10.2006 to 27.10.2006.
120. Organized one week Workshop on 'VB.Net Framework' from 25.8.2006 to 31.8.2006.
121. Co-convener for the Seminar on 'ePublishing' organized during Dec 2005.
122. Placement Advisor for the year 2003 to 2005.
123. Member and Chief Coordinator in Linux Campus Club of the University registered under IBM university programme.

124. Assisted in designing TamilNadu Universities websites for TANSICHE, Chennai.
125. Assisted in Computer Education Programme for School Children – ELCOT project.
126. Served as NSS Programme Officer for the year 1994-1995, 1995-96, 1998-1999, 2006-2007.
127. Associated in designing Curriculum for UG level Courses in the TamilNadu Universities for TANSICHE, Chennai.
128. Associated in designing Curriculum for various courses in Avinashilingam University.

Personal Information

Full name Parthasarathy Subashini

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Coimbatore – 641 041, Tamilnadu, India

Habitations

M.Sc. Applied Psychology, Bharathiar University, March 2022

HarvardX Certificate on ‘Leaders of Learning’, March 2021

Certificate of Academic Leadership, Ureka Education Group, UK, March-21

Ph.D in Computer Science, Avinashilingam University for Women, Feb 2009

M.Phil. in Computer Science, Avinashilingam University for Women,

May-1998

B.Sc. (Mathematics) & MCA, Gobi Arts College, Bharathiar University, May
1990 & 1993

Professional Activity

- Professor of Computer Science, School of Physical Sciences and Computing Sciences
- Coordinator, DST-CURIE-AI
- Coordinator, Centre for Machine Learning and Intelligence
- Director, GREENTic India Chapter, Academic Collaboration with University of HASSAN II Casablanca, Morocco
- IEEE Women in Computing, Computer Society of INDIA Council

- Team Coordinator, Solar Decathlon Africa (SDA) 2019

Online Presence

| | |
|--------------------|---|
| Official website – | http://avinuty.ac.in/maincampus/uploads/dept/science/computer/staff/ |
| Website - | www.sfoalgorithm.info |
| ORCID - | orcid.org/0000-0002-5786-4497 |
| ResearcherID - | G-2858-2010 |
| Scopus - | https://www.scopus.com/authid/detail.uri?authorId=36069850000 |
| Research Gate - | https://www.researchgate.net/profile/Parthasarathy_Subashini |
| Google Scholar - | https://scholar.google.pt/citations?user=subashini_aB94MjcAAAAJ |
| LinkedIn - | https://www.linkedin.com/in/p-subashini-14a72119/ |
| Vidwan - | https://avinuty.irins.org/profile/192811 |