Dr. P.Subashini

Affiliations

- Professor of Computer Science, School of Physical Sciences and Computing Sciences
- Coordinator, Centre for Machine Learning and Intelligence
- Programme Coordinator, M.Sc. Artificial Intelligence
- Programme Coordinator, B.Sc. Augmented Reality and Virtual Reality

Research Interest

Artificial Intelligence, Image Analysis and Processing, Computational Intelligence, Adaptive Learning, 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: Rs. 11,40,419/-
   Duration: Feb 2025 – Jan 2028

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

1. **Title : 'Evolving Artificial Intelligence Based Hedonic Price Index for Laptops and Mobile Phones in India' (**F.No. M-12001/4/2025-Trg(Computer No 76576))
   Sponsor : **Ministry of Statistics and Programme Implementation**, Govt. of India
   Amount: Rs. 15,10,000/-
   Duration: April 2025 – March 2026

2. **Title : 'Microbial Consortia and its biomolecules (mVOC) in Rice ecosystem'**
   Collaborator : Dept. of Agri. Microbiology, Tamilnadu Agricultural University, Coimbatore
   Sponsor : Private Scheme – Organova Bio-Agriculture Pvt. Ltd., Coimbatore
   Amount: Rs. 9,45,821/-
   Duration: Feb 2025 – Jan 2027

3. **Core Research Grant for Artificial Intelligence under CURIE Programme (DST-CURIE-AI Phase-II)(** DST/CURIE-AI/04/2020-PHASE-II(G))

    Sponsor :   Department of Science and Technology, Govt. of India
    Amount: Rs. 2,42,10,200/-
    Duration: March 2021 – Sept 2023

4. **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

5. **Centre for Machine Learning and Intelligence, DST-CURIE-AI (Phase – I)(** DST/CURIE-A1/2019(G))

    Sponsor :   Department of Science and Technology, Govt. of India
    Amount: Rs. 70,00,000/-,
    Duration: April 2019 – June 2020, $1_{1/2}$ years

6. **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

7. **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

8. **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

9. **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

10. **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

11. **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)

12. **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

13. **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

14. **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

15. **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

16. **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   -   10
    Pursuing   -   3

Ph.D. Dissertations

- Jennyfer Susan M.B., 2024, 'Specular Reflection Removal on Smart Colposcopy Images using Deep Learning Inpainting Model for Enhanced Grading of Cervical Cancer'
- M.Manjutha, 2022, 'Analysis of Tamil Stuttered Speech using Computational Intelligence'
- M.Rajalakshmi, 2020, 'Improved Segmentation Techniques for Toxin Detection in Chili Pepper X-Ray images'
- T.T.Dhivyaprabha, 2019, 'Synergistic Fibroblast Optimization – a novel nature inspired computing algorithm'
- 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'
- Sri Devi N., 2015, 'Optimized Complex Extreme Learning Machine for Classification of 11th Century handwritten Tamil Scripts'
- Devi aruna D., 2014, 'Layerwise Security Framework with SNAuth-SPMAODV to defend Denial of Service attack for Mobile adhoc Networks in Hostile Environment'

Scientific Engagement and Output

Patents Granted

- KIDBOT 1.0, Patent No. 503234, Application No. – 202241029718, 24/05/2022
- Cervical Cancer Self-Test Kit, Patent No. 527686, Application. No. – 202241020392, 05/04/2022

Patents Published

- Artificial Intelligence-based Mosquito Trap to Control Vector-Borne Diseases, Application No. - 202241021066 – Published, May 2022
- AI based Binocular wearable potential acuity tester, Application No. - 202441036039 – Published, May 2024

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

- 'ஆண்ட்ராய்டு எனும் நான், பகுதி - I எளிய கூறுகள்', 12th Dec 2024, Saradalaya Press, Coimbatore, 978-93-93518-15-6

- 'ஆண்ட்ராய்டு எனும் நான், பகுதி - II மேம்பட்ட கருத்துருக்கள்', 12th Dec 2024, Saradalaya Press, Coimbatore, 978-93-93518-16-3

- **'Python for Chemistry - with simple exercises'**, 17th June 2024, Notion Press, Chennai, ISBN – 979-8894467214

- **'Explore Python for Mathematics'**, 25th April 2024, Notion Press, Chennai, ISBN - 979-8893634549

- '**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 (13)

1. Murugan, M., da Silveira, A.C., **Subashini, P.**, Ghinea, G., Santos, C.A.S. (2024). Technology-Enhanced Mulsemedia Learning (TEML) Through Design for Learners with Dyslexia for Enhancing the Quality of Experience (QoE). In: Huang, R., Liu, D., Adarkwah, M.A., Wang, H., Shehata, B. (eds) Envisioning the Future of Education Through Design. Lecture Notes in Educational Technology. Springer, Singapore. https://doi.org/10.1007/978-981-97-0076-9_10 **(Scopus)**

2. 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.

3. 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

4. **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.

5. 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*

6. **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.

7. 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*

8. **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*

9. 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*.

10. 'Optimized weighted median filter using M-CPSO for efficient removal of impulse noise in Tamil sign language digital images', Advanced Engineering Research and Applications, Chapter 28, Vol. II, April 2017, Research India Publications, ISBN 978-93-86138-58-3, Pg. No. 415 – 430

11. '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*

12. '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*

13. '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 (92)

1. Senthilvel, A., Marimuthu, K., & Parthasarathy, S. (2025). Enhanced white blood cell and platelet segmentation: A particle swarm optimization-based chromaticity approach. *Pertanika Journal of Science & Technology, 33*(3), 1633–1660. https://doi.org/10.47836/pjst.33.3.24 (Scopus and ESCI)

2. Mohana, M., **Subashini, P**. & Ghinea, G., 2025, XAI-DSCSA: explainable-AI-based deep semi-supervised convolutional sparse autoencoder for facial expression recognition. Springer Nature International Journal of Singal, Image and Video Processing (*SIViP), Vol* **19**, 394 (2025). https://doi.org/10.1007/s11760-025-03984-1 (Scopus and SCIE)

3. Sekar, Bhuvaneswari and Parthasarathy, **Subashini.** "Empirical analysis on retinal segmentation using PSO-based thresholding in diabetic retinopathy grading", *Biomedical Engineering / Biomedizinische Technik*, 2025. https://doi.org/10.1515/bmt-2024-0299, (Scopus and SCIE)

4. Mohana, M., **Subashini, P.** Facial Expression Recognition Using Machine Learning and Deep Learning Techniques: A Systematic Review. SN COMPUT. SCI. 5, 432 (2024). https://doi.org/10.1007/s42979-024-02792-7 , (Scopus)

5. Mohana, M., **Subashini, P**., and Shukla, Diksha. 'Revisiting Face Detection: Supercharging Viola-Jones with Particle Swarm Optimization for Enhanced Performance'. 1 Jan. 2024: 10727–10741, ISSN 1064-1246(P), ISSN 1875-8967 (E) (Scopus and SCIE), Impact Factor: 1.7

6. Ramaraj K, Narayan V, Dhivyaprabha TT, **Subashini P.** , 'A healthy nutrition suggestion model for Indian women sports players & active youth using long short-term memory'. Internet Technology Letters. 2023; e452. DOI: 10.1002/itl2.45 (Scopus)

7. Jennyfer Susan, **Parthasarathy Subashini**, "Deep Learning Inpainting Model on Digital and Medical Images-A Review", T*he 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, (SCIE and Scopus)

8. 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)

9. 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 (Peer Reviewed)

10. 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://aircconline.com/abstract/ijcnc/v15n4/15423cnc05.html.

11. 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.

12. 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

13. 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).

14. 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 (Scopus)

15. 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)

16. M.B. Jennyfer Susan, **P. Subashini**, and M. Krishnaveni (2022) "Comparison of various deep learning inpainting methods in smart colposcopy images", International Joural of Computational Intelligence Studies, Vol.11(1), pp: 53–72. https://doi.org/10.1504/ijcistudies.2022.123347 (Group-1)

17. 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, *citation-1* (Peer Reviewed)

18. 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 (Scopus)

19. 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. (Scopus)

20. B. Preethi, **P.Subashini**, M. Krishnaveni. (2019), Wireless Based CO_2 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)

21. **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)

22. 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.1601553,indexed in SCI, Thomson Reuters, Imapcr Factor – 1.604, *citation -17* (Scopus & SCIE)

23. 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. (Peer Reviewed)

24. 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 & SCIE)

25. **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)

26. 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)

27. 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)

28. 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)

29. 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. C*itation-8* (Scopus).

30. 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*, (E-SCI)

31. 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)

32. 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)

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83. **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.

84. **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.

85. 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.

86. **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.

87. 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.

88. 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.

89. 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.Dhapati, **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 Nunniyirigal' –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 (100)

1. Resource person, 'Technical Book Writing and Translation', One day workshop on 'Bringing Technical Knowledge closer through Indian Language Translations', Nehru College of Arts and Science, 16th April 2025.

2. Invited Talk on 'Artificial Intelligence for Sound Engineering', 2nd Short Term Capacity Building Programme on 'Transforming Visual Communication Education with Artificial Intelligence', CMLI & AIU-AI-AADC, Avinashilingam University, Coimbatore, from 19th Mar 2025.

3. Invited Talk on 'Expanding AI for Children with Disabilities', 3 Day CRE programme on 'Teaching methods for Children with Disabilities', Dept. of Speical Education, Avinashilingam University, 27th Feb 2025.

4. Invited talk on 'Artificial Intelligence for BioSciences', International Conference on "Innovations in Intelligent Computing and Biological Sciences,", Sri Ramakrishna College of Arts & Science for Women, Coimbatore, 24th Jan, 2025.

5. Invited Talk on 'Protecting from Cyber Threats', 10th Short Term Capacity Building Programme on 'Smart Digital Practices for Non-Teaching Staff in Higher Education', AIU-AI-AADC, Avinashilingam University, Coimbatore, from 19th to 21st Dec 2024.

6. Invited Talk on 'GenAI for Teaching, Learning and Assessment', "Guru Dakshta – Faculty Induction Program for Newly Recruited Faculty Members 2024-25", Avinashilingam University, 05th Dec 2024.

7. Invited Talk on 'Responsible AI for Education', "Guru Dakshta – Faculty Induction Program for Newly Recruited Faculty Members 2024-25", Avinashilingam University, 05th Dec 2024.

8. Invited Talk on 'Application of Artificial Intelligence, Machine Learning and Internet of Things in Animal Agriculture and Integrated Farming', 9th Short Term Capacity Building Programme on 'Revolutionizing Life Sciences using Artificial Intelligence', CMLI & AIU-AI-AADC, Avinashilingam University, Coimbatore, from 25th to 29th Nov 2024.

9. Invited Talk on 'Open Source AI Tools for Biomedical Applications', 8th Short Term Capacity Building Programme on 'Artificial Intelligence for Engineers: Tools, Techniques and Applications', CMLI & AIU-AI-AADC, Avinashilingam University, Coimbatore, from 16th Oct 2024.

10. Invited Talk on 'Explainable, physics aware data driven deep learning for drone data analysis', 2nd Annual Wyoming Computing Symposium 2024, School of Computing, University of Wyoming, Laramie, USA, 20th Sept 2024.

11. Invited Talk on 'Internet Surfing Skills', 7th short-term capacity-building program for the year 2024 on the topic "Digital Skills Training for Non-Teaching Staff ", Avinashilingam University, Coimbatore, 12th Sept 2024.

12. Invited Talk on 'Intelligent Tutoring Systems and Virtual Teaching Assistants', 5th short-term capacity-building program for the year 2024 on the topic " AI Assisted Learning in Physical and Computation Sciences ", Avinashilingam University, Coimbatore, 15th July 2024.

13. Delivered a talk on 'Orientation of Lanquill – AI based adaptive Language Learning Tool', Avinashilingam University, Coimbatore, 2nd April 2024.

14. Invited Talk on 'Lanquill – AI based adaptive Language Learning Tool', 2nd short-term capacity-building program for the year 2024 on the topic " Adaptive Learning: Personalized Education with AI ", Avinashilingam University, Coimbatore, 1st April 2024.

15. Invited Talk, 'Research Paper Writing', School of Computer Science and Engineering and School of Information Science, Presidency University, Bengaluru, 28th Mar 2024.

16. Keynote Speaker on 'Artificial Intelligence for National Security and Nation Building', National Seminar on 'Artificial Intelligence for National Security and Development', PSG College of Arts and Science, Coimbatore, 22nd Mar 2024.

17. Keynote Speaker, 'Artificial Intelligence for Teaching, Learning and Assessment', One Day Faculty Development Program on Artificial Intelligence and Machine Learning, Kongunadu Arts and Science College, 06th March 2024.

18. Invited Talk on 'AI Tools for eContent Development', "Guru Dakshta – Seven-Day Faculty Induction Program for Newly Recruited Faculty Members 2023-24", Avinashilingam University, 19th Feb 2024.

19. Invited Talk on 'Machine Learning using Excel for Economics', Two day workshop on Machine Learning for Economics, Dept of Economics, Avinashilingam University, 13th – 14th Feb 2024.

20. Invited Talk on 'Application of AI Tools in Teaching, Learning and Assessment', "Guru Dakshta – Seven-Day Faculty Induction Program for Newly Recruited Faculty Members 2023-24", Avinashilingam University, 27th Jan 2024.

21. 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.

22. 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.

23. 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.

24. 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.

25. '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.

26. 'Education Data Science', Intelligent Systems and Machine Learning Research Cluster, Athabasca University, Canada, 4th April 2023.

27. 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.

28. 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.

29. 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).

30. '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.

31. 'ICT based Exercises', Faculty Improvement Programme, Avinashilingam University for Women, Coimbatore, 5th April 2022.

32. 'e-Content Development', Airforce School, Coimbatore, 29th March, 2022.

33. 'Artificial Intelligence meets other Disciplines', AI Awareness programme for Faculty Members, Avinashilingam University for Women, Coimbatore, 8th Nov 2021.

34. 'Artificial Intelligence in Tamil Computing', International Workshop on 'Artificial Intelligence in Tamil', Avinashilingam University for Women, Coimbatore, 26th Oct 2021.

35. 'Digital Literacy & Effective use of Social Media', Capacity Building & Personality Development Program (PDP), Kongu Arts and Science College, Erode, 20th – 23rd Oct 2021.

36. Keynote Address on 'Reinforcement Learning for Intelligent Devices', The 2nd International Conference on Artificial Intelligence and Computer Vision (AICV'2021), Morocco. (Online)

37. '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.

38. '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.

39. '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.

40. 'Research Project proposal – a 360. View', Kongu Arts and Science College, Erode on 12th March 2021.

41. 'Research projects and Funding agencies' in three days Faculty Orientation Programme by D.G.Vaishnav College, Chennai on 12th February 2021.

42. 'Funding opportunities to promote innovative Research in Music', UGC-STRIDE sponsored 5 day training programme on Environmental Sustainability and Research Ethics Research Scholars, Avinshilingam University for Women, Coimbatore on 4th Feb 2021.

43. '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.

44. 'Research / Project Proposals preparation', IQAC Cell, Avinshilingam University for Women, Coimbatore on 9th Nov 2020.

45. 'Nuances of Research Proposals', Resource Person, Hindusthan college of Arts and Science, Coimbatore on 14th Oct 2020.

46. '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.

47. 'Artificial Intelligence – A Research perspective', International Conference on Recent Advances in Communications and Computing Techniques, Women's Christian College, Chennai, 25th Jan 2020.

48. '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.

49. 'Art of Research Proposals writing', Resource Person, SDNB Vaishnav college for Women, Chennai on 30th Nov 2019.

50. 'Research / Project Proposals writing', Guest Speaker at Nirmala Annual Research Congress, Nirmala college for Women, Coimbatore on 27th Nov 2019.

51. 'Optimization using Computational Intelligence', Refresher Course on Computer Applications, Bharathiar University, Coimbatore, 23rd Sept 2019.

52. 'Research Funding Proposals in Computer Science', Guest Speaker at Faculty Development Programme, Sri Krishna Arts and Science College, Coimbatore, 29th Dec 2018.

53. '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.

54. '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.

55. '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.

56. 'Inclusive Smart Cities for Specially abled people', Keynote Address in Mediterranean Symposium on Smart City Applications', (SCAMS 2017), Tangier, Morocco, 25th – 27th Oct 2017.

57. '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.

58. 'Opportunities in Computer Science', Association function of PG and Research Department of Computer Science, Government Arts College, Coimbatore on 3rd March 2017.

59. 'eWaste Management', NSS Special camp Unit X, Avinashilingam University for Women, Theenampalayam, Thondamuthur, 20th Feb 2017.

60. '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.

61. '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.

62. 'Research proposal writing and Funding Agencies', Research Colloquium, Department of Computer Science, Kristu Jayanti College, Bangalore, 26th Nov 2016.

63. '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.

64. 'Research/Project proposal writing', Quality Improvement Program, Department of Computer Science, Christ University, Bangalore, 4th May 2016.

65. 'Eservices', NSS Special camp Unit X, Avinashilingam University for Women, Theenampalayam, Thondamuthur, 23rd March 2016.

66. 'Optimization using Particle Swarm Intelligence', AICTE sponsored short term course on "Soft Computing and its Applications", Coimbatore Institute of Technology, Coimbatore, 15th Feb 2016.

67. 'Data mining – Future Directions', UGC sponsored workshop on "Research Directions in Data mining", Gobi Arts and Science College, Gobichettipalayam, 22nd Jan 2016.

68. 'Women Empowerment through research', Workshop on Women in Engineering, IEEE TENCON 2015, Region 10 and University of Macau, Macau, November 1st – 4th, 2015.

69. '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.

70. '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.

71. 'Research/Project proposal writing', Shrimathi Devkunvar Nanalal Bhatt Viashnav College for Women, Chennai on 24th Jan 2015.

72. 'Research proposal preparation', Sri Ramakrishna College of Arts and Science for Women, Coimbatore on 20th March 2014.

73. 'Research proposal preparation' in two days National Seminar on Technical report writing by D.G.Vaishnav College, Chennai on 27th – 28th Sept 2013.

74. '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.

75. '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.

76. '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.

77. 'Web based Research databases and software' – Research Convention 2012, Avinashilingam University, Coimbatore, 15th Sept 2012.

78. 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.

79. 'Current projects, co operations and future developments on SAR', TerraSAR-X presentation, Corporate Astrium GEO-Information Services, Immenstaad, Germany, 15th May 2012.

80. '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.

81. '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.

82. '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.

83. '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.

84. 'Shakthi Office – an introduction' in Certificate Course on Tamil Computing organized by Department of Tamil, D.G.Vaishnav College, Chennai on 22nd Jan 2012.

85. '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.

86. 'Tamil websites – an introduction' in Certificate Course on Tamil Computing organized by Department of Tamil, D.G.Vaishnav College, Chennai on 20th Jan 2012.

87. '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.

88. '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.

89. 'Research Projects in Computer Science' in Refresher course in Computer Science organized by the Academic Staff College, Bharathiar University, Coimbatore on 24th May 2011.

90. '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.

91. 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.

92. 'W5H of Research' in the Valedictory function of Student's Association organized by Saraswathi Thiagaraja College, Pollachi, 21st March 2011.

93. "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.

94. "Preparation of Research Proposals" in the 'Faculty Development Program' organized by MCA Department, Siddhaganga Institute of Technology, Tumkur, 23rd - 24th October, 2010.

95. "Neural Networks in Image Processing" in the National Conference on Artifical Neural Networks jointly organized by DRDO and Dept. of Mathemetics, Kongu Engineering College, Perundurai, 17th – 18th Sept, 2010.

96. "Image Processing using MATLAB" in the 'Faculty Development Program' organized by MCA Department, Siddhaganga Institute of Technology, Tumkur, 28th - 29th June, 2010.

97. Cognitive Radios" in the 'Continuous Education Program for Scientists' organized by National Physical and Oceanographic Laboratory, Kochi, 12th August, 2009.

98. "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.

99. "Image Processing using MATLAB" in the one day National workshop on MATLAB, DG Vaishnav college, 30th January, 2009.

100. "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, ICCVISP 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 (IUCEE), 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 (15)

- **Best Paper Award**, 'Automated Detection of Hard Exudates for Diabetic Retinopathy Severity Assessment Using Detectron2 Framework', WUACD International Conference 2025 on 'One Health', Avinashilingam Institute for Home Science and Higher Education for Women, Coimbatore, India, 6th – 7th Feb, 2025.

- **Best Paper Award,** 'Automatic Detection of Erythrocytes for Sickle Cell Disease Identification Based on YOLOv8n Network', *5th International Conference on Computational Intelligence (ICCI 2024),* Sardar Vallabhbhai Patel National Institute of Technology, Surat, 24th – 26th Dec 2024.

- **'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 AIIoT Congress (AIIoT). Seattle, 12th May 2021.

- **Best paper Award** for 'Cost Analysis of the Optimized Two Phase Retrial 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 CO_2 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 (39)

- London, UK, 8th – 15th June 2025
  - To participate in AI Summit 2025, London, 11th – 13th June 2025
- Wyoming, USA, 15th – 21st August 2024
  - Invited Talk, 2nd Annual Wyoming Computing Symposium 2024, School of Computing, University of Wyoming, 19th – 20th Sept 2024
- 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 Intelliegnce 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 Intelliegnce 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 Avinashilingham 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)

- o   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.
    - o   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.
    - o   Participate to Solar Decathlon Africa as representative of Avinashilingham University within E Co Dar consortium and participate to SDA international competition event.
    - o   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)
    - o   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
    - o   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
    - o   Opening talk at Creathon/Hackathon on "Open source mobile apps and platformsfor inclusive smart city" in the program of Smart City Connect Casablanca, 20th April, 2018
    - o   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
    - o   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
    - o   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, ICCVISP 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, 2nd Short Term Capacity Building Programme on 'Transforming Visual Communication Education with Artificial Intelligence', CMLI & AIU-AI-AADC, Avinashilingam University, Coimbatore, from 17th to 21st Mar 2025.

2. Participated in 'AGLIBERTE' organized by Shristi Biosciences Ltd, Hyderabad, 11th Jan 2025 on Hotel O Tamara, Coimbatore.

3. Technical Program Committee (TPC), 11th Intelligent Systems Conference 2025, August 28 & 29, 2025, Amsterdam, The Netherlands.

4. Participation, Training programme on 'Advanced training on Responsible AI: concepts, Applications and Ethical Considerations', C-DAC Mohali, Chandigarh, 18th to 22nd Nov 2024.

5. Programme Coordinator, 9th Short Term Capacity Building Programme on 'Revolutionizing Life Sciences using Artificial Intelligence', CMLI & AIU-AI-AADC, Avinashilingam University, Coimbatore, from 25th to 29th Nov 2024.

6. Programme Coordinator, Workshop on 'Arts and Technology', Chief Guest – Dr.Heather, Rochester University, USA, CMLI & AIU-AI-AADC, Avinashilingam University, Coimbatore, 28th Oct 2024.

7. Programme Coordinator, 8th Short Term Capacity Building Programme on 'Artificial Intelligence for Engineers: Tools, Techniques and Applications', CMLI & AIU-AI-AADC, Avinashilingam University, Coimbatore, from 14th to 18th Oct 2024.

8. Programme Coordinator, Sixth Short-Term Capacity-Building Program on 'Artificial Intelligence in Allied and Healthcare Sciences', CMLI & AIU-AI-AADC, Avinashilingam University, Coimbatore, from 19th – 23rd Aug 2024.

9. Programme Coordinator, 5th Short-Term Capacity-Building Program on 'Artificial Intelligence Assisted Science Education', CMLI & AIU-AI-AADC, Avinashilingam University, Coimbatore, from 15th - 19th July 2024.

10. Programme Coordinator, 2nd short-term capacity-building program for the year 2024 on the topic " Adaptive Learning: Personalized Education with AI ", CMLI & AIU-AI-AADC, Avinashilingam University, Coimbatore, from 1st - 5th April 2024.

11. Participated in 2 day SICI sponsored Bi-National Indo-Canada Agri-Cluster workshop, Tamilnadu Agricultural University, Coimbatore, 22nd – 23rd Feb 2024.

12. Special Session Chair, Special Session on 'Advances in Modeling, Optimisation and Emerging Technologies for Healthcare Systems', The International Conference on Connected Innovation and Technology X.0 ICCITX.0 and The Smart Healthcare International Conference SHeIC, April 22nd – 24th, 2024, Marseille, France.

13. Organizer, Two day Workshop on 'DSpace - Digital Repository Software', CMLI & AIU-AI-AADC, Avinashilingam University, Coimbatore, 18th – 19th Dec 2024.

14. Programme Coordinator, IV Short term capacity building programme on 'AI in Education', CMLI & AIU-AI-AADC, Avinashilingam University, Coimbatore, 19th – 30th June 2023.

15. Convener, Two Day online Training on 'Accelerate Research with Machine Learning using Schrodinger Platform', 18th – 19th April 2023.

16. 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.

17. Technical Programme Committee member, IEEE International joint conference on Neural Networks organized by International Neural Networks Society: IJCNN 2023, 18th- 23rd June 2023, Australia.

18. Session Chair, 'International Conference on Modern Artificial Intelligence and Data Science Systems - MAIDSS'22', Rabat, Morocco, 2nd – 3rd Feb 2023.

19. 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.

20. Technical Programme Committee member, 1st International conference on Artificial Intelligence: Advanced Topics and Social Issues: AIATSI 2022, 22nd – 23rd November 2022, Marrakesh, Morocco.

21. 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.

22. Co-opted member, Interdisciplinary Board, IDB meeting on 08.08.2022.

23. Member Secretary, IT-ICT eGovernance Committee, July 2022 to July 2025.

24. Member of the 'Core committee for the Innovation, Incubation and Acceleration Centre (AIIAC), June 2022 – 2024.

25. Technical Programme Co-Chair, International Conference on Artificial Intelligence and Computer Vision : AICV'23, 5th – 7th March 2023.

26. Program Committee Member, 12th International Conference on Artificial Intelligence, Soft Computing and Applications (AIAA 2022), Sydney, Australia, December 23rd – 24th, 2022.

27. External Member, External Academic Audit Committee, Gandhigram Rural University, Gandhigram, 30th – 31st May 2022.

28. Member Secretary, IT-ICT Audit Committee, March 2022 to March 2025.

29. International Advisory Committee Member, International Conference on Smart City Applications, SCA2021, Tangier, Morocco, 28th Oct 2021.

30. Session Chair, SESSION26: Image Processing & Recognition Systems 2, International Conference on Smart City Applications, SCA2021, Tangier, Morocco, 28th Oct 2021.

31. Advisory Committee member, International Workshop on 'Artificial Intelligence in Tamil', Avinashilingam University for Women, Coimbatore, 25th – 29th Oct 2021.

32. Advisory Committee member, Nirmala College for Women, Coimbatore, 2019-2021.

33. Programme Committee member, The 2nd International Conference on Artificial Intelligence and Computer Vision (AICV'2021), Morocco. (Online)

34. Organizing Secretary, 15 Day training on 'Mobile App Development using ANDROID', Centre for Machine Learning and Intelligence, 25th Jan 2021, Avinashilingam University, Coimbatore.

35. Organizing Secretary, 'Synopsys simpleware software for 3D image processingand model generation', Centre for Machine Learning and Intelligence, 4th – 8th Jan 2021, Avinashilingam University, Coimbatore.

36. 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.

37. Session Chair, 12th International Conference on Soft Computing and Pattern Recognition (SoCPaR 2020), 12th – 18th Dec, 2020, Online.

38. Publication Chair, 2nd International Conference on Artificial Intelligence and Computer Vision (AICV2021), June 28-30, 2021, Morocco

39. Organizing Secretary, Webinar on 'GSuite for Education – a Research Perspective', 27th Oct 2020, Avinashilingam University, Coimbatore.

40. Organizing Secretary, Webinar on 'Insights into GSuite for Education', 22nd Oct 2020, Avinashilingam University, Coimbatore.

41. 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).

42. Technical Programme Committee Member, 2nd International Conference on Machine Learning & Applications (CMLA 2020), 26th – 27th Sept, 2020, Copenhagen, Denmark.

43. Technical Programme Committee Member, 1st International conference on Artificial Intelligence: Advanced Topics and Social Issues: AIATSI 2020, April 13th - 16th, 2020, Marrakesh, Morocco.

44. 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.

45. Selection Committee member, DST-BDTD project, Feb 2019, Department of Computer Applications, Bharathiar University, Coimbatore.

46. Board of Studies member, 2019, Department of Computer Applications, Sri Ramakrishna Mission Vidyalaya College of Arts and Science, Coimbatore.

47. General Chair, 5th IEEE International Smart Cities Conference, ISC2 2019, 14th – 17th Oct 2019, Casablanca, Morocco.

48. 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.

49. 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.

50. Advisory Committee Member, International Conference on Information Security Risks – Techno Legal Management, Vivekananda Institute of Professional Studies (VIPS), New Delhi, 21st - 22nd May 2018.

51. Reviewer and Organizing Member, International Conference on SMAC, Avinashilingam University for Women, 9th Feb 2018.

52. Technical Programme Committee Member, IEEE International Conference on current trends in Advanced Computing, ICCTAC 2018, Kristu Jayanti College, Bangalore, March, 2018.

53. 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.

54. Session Chair, National Conference on Computational methods, Communication Techniques and Informatics- NCCCI 2017, 27th Jan 2017 , Gandhigram Rural Institute, Gandhigram.

55. Organizing Secretary, Three day Workshop on Geographical Information System using Open Source Software, Department of Computer Science, Avinashilingam University, 16th – 18th Jan 2017.

56. Advisory Committee Member, IEEE International Conference on current trends in Advanced Computing, ICCTAC 2017, Kristu Jayanti College, Bangalore, 2nd – 3rd March, 2017.

57. Convener, SERB sponsored one day Seminar on 'Opportunities in Assistive Technology', 26th Oct 2016.

58. Program committee member, IEEE Symposium Series on Computational Intelligence (SSCI 2016), Athens, Greece, 6th to 9th Dec 2016.

59. 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 .

60. Inaugural address, UGC sponsored workshop on "Research Directions in Data mining", Gobi Arts and Science College, Gobichettipalayam, 22nd Jan 2016.

61. Session chair, Technical track on Applications of Image Processing, IEEE TENCON 2015, Region 10 and University of Macau, Macau, November 1st – 4th, 2015.

62. 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

63. Program committee member / Reviewer of "International conference on Advanced Computing (ADCOM-2015)", June 27~28, 2015, Bangalore, India

64. Organizing Secretary for the Power seminar organized by Department of Computer Science and ICTACT, Tamilnadu on 12th Dec 2014.

65. Convener for the 26th Convocation and Graduation day celebrations, 9th Dec 2014.

66. Member in the Sub-committee to decide in the seniority of teachers in the Departments, 2014-2015.

67. Member in Internal Review committee – 2014-2017.

68. Member in the committee to frame procedures, recommendations and process to be framed to the follow the UGC guidelines on strict implementation of SC/ST reservation policies, 2014.

69. Screening committee member year April, June 2014.

70. Chairperson in Cybroz'14, technical symposium organized by Department of Computer Science, Avinashilingam University for Women, Coimbatore, Jan 21st 2014.

71. Judge for the Exhibition conducted on the 150th Birthday of Swami Vivekananda on 28th Jan 2014.

72. Joint Secretary, Avinashilingam Alumnae Association, 2014

73. Member in the committee to prepare details of recruitment/promotion of non-teaching staff vacancies, 23rd-24th Dec 2013.

74. Screening committee member for the selection of Professor, Associate Professor, Assistant Professors- Nov 2013.

75. Advisory Committee member for Dr.Ambedkar's Study Center during 12th five year plan, 2013

76. Member of DST-CURIE Phase-II Committee.

77. Member of Board of Studies, 2013, 2014, 2015, 2016.

78. 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.

79. Member in the University Anti-sexual harassment committee, 2012-2013.

80. 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.

81. Program committee member / Reviewer of ITCSE 2013 to be held in Bangalore, India.

82. 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.

83. Program committee member, "The Second International Conference on Control, Modelling, Computing and Applications" (CMCA-2013) to be held in Dubai, UAE.

84. Program committee member "International Conference on Soft Computing, Artificial Intelligence" (SAI 2013) to be held in Dubai, UAE.

85. 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.

86. Organized 'Emotional Intelligence for IT Professionals' – Valedictory of Student's Association meeting on 18th March 2013.

87. Session Chair in the International Conference on Computer Vision, Image and Signal Processing, ICCVISP 2013, World Academy of Science, Engineering and Technology, WASET, Barcelona, Spain, Feb 27th -28th 2013.

88. Co-ordinator for 'Cybroz – 2013', Cybroz'12, technical symposium organized by Department of Computer Science, Avinashilingam University for Women, Coimbatore, January 24th 2013.

89. Session Chair, Second International Conference on Computational Science, Engineering and Technology, CCSEIT 2012, Avinashilingam University for Women, Coimbatore, 26th -28th Oct 2012.

90. 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.

91. Chair person, National Conference on Computing and Intelligence Systems, D.G.Vaishnav College, Chennai, 12th – 13th Oct 2012.

92. Organized 'Lab on Cloud' – Student's Association meeting on 21st Sept 2012.

93. Organized 'Mobile applications using Open source software' – Student's Association meeting on 6th August 2012.

94. International Program committee member for 4th International Conference on Computer and Communication Engineering ICCCE 2012 held during 3rd – 5th July 2012 at Kualalumpur, Malaysia.

95. 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.

96. 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.

97. 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.

98. Advisory Committee member for National Conference on Computer Vision and Communication Systems, Kathir College of Engineering, Coimbatore held on 27th April 2012.

99. Organized 'Project Meet 2012' during 20th Feb 2012.

100. 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.

101. 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.

102. Academic Consultant for the 'Certificate Course in Tamil Computing' to be conducted by Department of Tamil, DG Vaishnav College, Chennai during Jan – Feb 2012.

103. 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.

104. Member in University Examination Committee, 2011-2012, 2012-2013.

105. Extrenal Examiner for D.Sc. Viva Voce examination conducted by Tumkur University, Tumkur on 28th Sept 2011.

106. 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.

107. Member of Technical committee for the University IT Infrastructure Maintenance.

108. PG project co-ordinator for the year 2011-2012.

109. Advisory Committee member, International Conference on Computing, ICC 2011, New Delhi, 28th – 29th Dec 2011.

110. Technical committee member in International Conference on Mechanical and Electrical Engineering ICMET 2011 held in August 26-27, 2011 at Dalian, China.

111. 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.

112. 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.

113. 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.

114. 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.

115. University nominee for Board of Studies, MCA Department, VLB Janaki Ammal College of Engineering, Coimbatore, 9th April 2011.

116. Chairperson in Cybroz'11, technical symposium organized by Department of Computer Science, Avinashilingam University for Women, Coimbatore, March 7th 2011.

117. Board member for Board of Studies, Gobi Arts College, Gobichettipalayam, 6th March 2011.

118. Chair person in International Conference on Computing, ICC 2010, New Delhi, Dec 27th – 28th , 2010

119. Chair person in UGC sponsored National Conference on Data Warehousing and Data Mining, Gobi Arts College, Gobichettipalayam, 4th – 5th March 2011.

120. Organized a Special session in International Conference on Computing, ICC 2010, New Delhi, Dec 27th – 28th , 2010.

121. Organized Seminar on 'Cyber Security' on 20th Dec, 2010.

122. Organized four day workshop on 'Personality Development' on 27th Sept – 1st Oct 2010.

123. Chairperson in the National Conference on Artifical Neural Networks jointly organized by DRDO and Dept. of Mathemetics, Kongu Engineering College, Perundurai, 17th – 18th Sept, 2010.

124. Organized NRB-DRDO sponsored two day seminar on 'Emerging Technologies in Satellite Imagery' on 29th – 30th April 2010.

125. Organized two day Workshop on 'Open Source Software' on 28th – 29th January 2010.

126. Organizing Secretary for the two day International Workshop on Bio-inspired Computing on 21st – 22nd December 2009.

127. Organizing Secretary for the one day International Seminar on Information Security on 14th December 2009.

128. Co-convener for the seven day workshop on 'Ethical Hacking and Information Security' organized during 30th Sept-8th Oct 2009.

129. Co-convener for the two days International Workshop on 'Research Methodologies and Techniques' organized during 18th-19th July 2008.

130. Organized one week workshop on 'J2EE/PHP' from 28.08.2007 to 03.09.2007.

131. Organized one day seminar on 'Multimedia' on 23.08.2007.

132. Organized three days Workshop on VC++ from 25.10.2006 to 27.10.2006.

133. Organized one week Workshop on 'VB.Net Framework' from 25.8.2006 to 31.8.2006.

134. Co-convenor for the Seminar on 'ePublishing' organized during Dec 2005.

135. Placement Advisor for the year 2003 to 2005.

136. Member and Chief Coordinator in Linux Campus Club of the University registered under IBM university programme.

137. Assisted in designing TamilNadu Universities websites for TANSCHE, Chennai.

138. Assisted in Computer Education Programme for School Children – ELCOT project.

139. Served as NSS Programme Officer for the year 1994-1995, 1995-96, 1998-1999, 2006-2007.

140. Associated in designing Curriculum for UG level Courses in the TamilNadu Universities for TANSCHE, Chennai.

141. Associated in designing Curriculum for various courses in Avinashilingam University.

Personal Information

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Coimbatore – 641 041, Tamilnadu, India

Habitations

- Google Certificate on 'GenAI for Educators', Dec 2024

- 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. (Computer Science), Avinashilingam University for Women, May-1998

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

Professional Activity

- Coordinator, Centre for Machine Learning and Intelligence, Oct 2023 – till date
- Programme Coordinator, M.Sc. Artificial Intelligence
- Programme Coordinator, B.Sc. Augmented Reality and Virtual Reality
- Coordinator, DST-CURIE-AI April 2019 – Sept 2023
- 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

Online Presence

Official website –   http://avinuty.ac.in/maincampus/uploads/dept/science/computer/staff/

CMLI Website -   https://avinuty.ac.in/cmli-research#

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