PROFILE

Dr. S. MANIMEKALAI, M.S.IT.,M.Phil.,Ph.D.,

DEAN & ASSOCIATE PROFESSOR

PG & RESEARCH DEPARTMENT OF COMPUTER SCIENCE

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1.	CONTACT

OFFICE ADDRESS **: Theivanai Ammal College for Women (Autonomous),Chennai-Trichy Trunk Road, Villupuram - 605401 Tamilnadu, South India**

RESIDENTIAL ADDRESS: **#70, Thiruvalluvar St, Singapore Nagar, Salamedu, Villupuram**

2.	ACADEMIC QUALIFICATIONS

- B.Sc., Computer Science, at Shrimati Indira Gandhi College, Trichy-2, 1997-2000.
- M.S., Information Technology, at Shrimati Indira Gandhi College,Trichy-2, 2000-2002.
- M.Phil., Computer Science, at Bharathidasan University, Trichy-24, 2002-2004,
- Ph.D., Computer Science, at Mother Teresa Women's University, Kodaikannal. Jan -2014.

3.	TEACHING EXPERIENCE

- **Dean & Associate Professor,** Department of Computer Science, Theivanai Ammal College for Women (Autonomous), Villupuram, 07-Sep-2020 to till date.
- **Assistant Professor,** Department of Computer Science, Nehru Memorial College Autonomous, Puthanampatti, 12-June-2019 to 16-Mar-2020 **(11 Months)**.
- **Head & Assistant Professor,** Department of Computer Science, Theivanai Ammal College for Women (Autonomous), Villupuram, 16-June-2016 to 01-April-2019 **(3 Years)**.
- **Head & Assistant Professor,** Department of Computer Applications and Information Technology, Thanthai Hans Rover College, Perambalur, 19-June-2013 to 31- May-2016 **(3 Years)**.
- **Guest Lecturer,** Department of Computer Science, Government Arts College, Trichy-22   3-Sep-2003 to 30-Apr-2013 **(10 Years)**.
- **System Developer,** HUDCO, Chennai, 26/05/2002 to 25/11/2002 **(6 Months)**.

- **Adjunct Faculty**, Department of Computer Science and Engineering, DMI-St.John the Baptist University, Mangochi, Malawi from 15.09.2021 to 27.01.2022.

4. RESEARCH EXPERIENCE (in years) :9

Research : Ph.D – 4 Ongoing

M.Phil – 13 Completed

Project   : PG – 35 Completed,

5. AREA OF SPECIALIZATION

- Digital Image Processing.
- Software Re-Engineering
- Cloud Computing.
- Bigdata Analytics

6. DETAILS OF PRESENTATION(S)

(Conference(s) / Seminar(s))

INTERNATIONAL CONFERENCES

1. Presented a Paper "**Artificial Neural Network with extreme learning machine-based Wastewater Treatment systems**" in IEEE Mysuru con 2022-2nd edition of flagship International Conference Series of IEEE Mysore Subsection in association with IEEE Bangalore Section hosted by JSS Science and Technology University, Mysuru partnered (Academic) with Nitte Meenakshi Institute of Technology, Bengaluru during 16th and 17th October 2022.

2. Presented a Paper "**Hybrid proactive approach to prediction of credit card fraudulent activities detection**", at Third International Conference on Advances in Physical Sciences and Materials organized by KPR Institute of Engineering and Technology, Coimbatore, during 18-19, Aug 2022.

3. Presented a paper "**Segmentation of Cervical image using Lagrange Dual Dictionary Learning Method in Convolutional Neural Network**", at International Conference on Multi-Disciplinary Research in Engineering Science, Management, Humanities and Education organized by Vedic Gurukul Institute of Engineering and Technology, Jaipur, Rajasthan on 07th and 8th of May 2022.

4. Presented a paper "**Feature Extraction and various Machine Learning Techniques for Leukemia Classification in Blood Microscopic Images**", at International Conference on Multi-disciplinary Research in Engineering Science, Management , Humanities and Education organized by Vedic Gurukul Institute of Engineering and Technology, Jaipur, Rajasthan on 07th and 8th of May 2022.

5. Presented a paper "**Predictive Analysis of Diabetes using Bigdata**", at International Conference on advanced computing and cyber warfare

organized by Joseph Arts and Science College, Thirunavalur on 29th and 30th of April 2022.

6. Presented a paper "**Imbalanced data classification in Credit Card Fraudulent Activities Detection using Multi-class Neural Network**", at International Conference on Artificial Intelligence and Smart Systems organized by JCT College of Engineering and Technology, Coimbatore on 23rd to 25th Feb 2022.

7. Presented a paper "**Diagnosis of Adolescent diabetes based cardiac risk Prediction using Map Reduce Algorithm with Hadoop clustering and using Hybrid Architecture of Neural Network**" at International Conference on Management, Engineering Science and Humanities organized by Builders Engineering College, Tirupur on 19.01.2022.

8. Presented a paper "**Collaborative Recommender System for Online Users using Map Reduce Algorithm in Big Data**", at International Conference on Emerging Trends in Multi-Disciplinary Research, organized by The American College Madurai **held in Singapore on 27-30th December 2017.**

9. Presented a paper "**An Enhanced Classification Algorithm for Breast Cancer Density using Feature Extraction and Segmentation Techniques**" at 6th International Conference on Emerging Trends in Engineering, Technology, Science and Management, organized by Institution of Electronics and Telecommunication Engineers, Ganganagar, Bengaluru, Karnataka, on 07th Oct 2017.

10. Presented a paper "**Component Based Software Development using Refactoring with Form Method**" at IIR Second Virtual Conference on Science, Engineering and Technology Applications (IIRSVCSETA 2016), Chennai on 26th Nov 2016. (PP. 84 to 96)

11. Presented a paper "**State of the Art with Cooperative Approach for Software Product Lines in IC Reengineering**" at International Conference on Advances in Electrical, Electronics and Computational Intelligence organized by K.S.R College of Engineering(Autonomous), Tiruchengode on 22nd Feb 2016.

12. Presented a paper "**A Cognitive Approach to Reengineering of Converting VB into C#.**" at International Conference on Researching for Transforming the Society, organized by Mother Teresa Women's University, Kodaikanal, on Feb 18th& 19th 2008.

NATIONAL CONFERENCES

1. Presented a paper "**A Review on Brain Tumor Detection Using Immune System with Imaging Techniques**", at National Conference on "Internet of Things – The Current Trend In Connected World" NCIOT-2018, organized by Thiruvalluvar University College of Arts and Science, Thiruvennainallur on 31.01.2018.

a. Presented a paper "**Enhancing Rating Prediction Accuracy By Exploring Online User Sentiments".**
   b. Presented a paper "**Spectral Clustering Based Classification Algorithm for Text Classification".**
2. Presented a paper "**A Cognitive Approach in Haptics Shoes for Blind**" at National level Seminar on Data Science, organized by Theivanai Ammal College for Women(Autonomous), Villupuram on 24th Mar 2017.
3. Presented a paper "**Region Features and Segmentation of Breast Cancer Image Density Classification**" at National Level Conference on Recent Trends in Data Mining Techniques, organized by Vivekanandha College of Arts and Science for Women(Autonomous), Thiruchengode on 7th Mar 2017.
4. Presented a paper "**An overview of privacy preserving Datasets using Watermarking Techniques**" at National Conference on Recent Trends in Mathematical Computational Techniques, organized by Thanthai Hans Roever College, Perambalur on Apr 12th 2016. (PP. 90- 96).
   a. Paper Proceeding "**An Impression of Watershed Transformation for Glaucoma Segmentation",** at National Conference on Recent Trends in Mathematical Computational Techniques, organized by Thanthai Hans Roever College, Perambalur on Apr 12th 2016. (PP. 80- 89).
   b. Paper Proceeding "**Comparative study of Different Classification Algorithms in Internet Movie dataset using WEKA Tool**", at National Conference on Recent Trends in Mathematical Computational Techniques, organized by Thanthai Hans Roever College, Perambalur on Apr 12th 2016. (PP. 106- 111).
5. Presented a paper "**A Cognitive Approach in Green Commerce**" at National Level Conference on High Performance Computing organized by Thanthai Hans Roever College, Perambalur, on March 31st 2012.
6. Presented a paper "**Emerging Trends in Reengineering for Cloud Computing**" at Second National Conference on Trends and Challenges in Research areas of Computer Science, organized by Presidency College (Autonomous), Chennai, on February 24th -25th, 2012 (PP. 34).
7. Presented a paper "**Re-Engineering of Visual Basic into OOPs for Efficient Utilization in Inheritance"** at National Conference on Middleware Technologies, organized by V.M.K.V Engineering College, Vinayaka Mission University Salem, on April 5th 2007 (PP. 30).
8. Presented a paper "**Motion Image Capturing System and Signal Transmission to Wireless Communication"** at National Level Seminar on Emerging Trends of Mathematical Techniques and their Applications in Computer Science, organized by Shrimati Indira Gandhi College, Trichy-2, on February 23rd -24th ,2007(PP. 89) Secured: **V Prize.**

9. Presented a paper "**Re-Engineering of Visual Basic into OOPs for Efficient Utilization in Inheritance**" at National Conference on Computer Science and Communication Technology, organized by St. Joseph's College (Autonomous), Trichy, on February 16th -17th, 2007.

10. Presented a paper "**Re-Engineering of Programming Languages for Efficient Utilization**" at National Conference on Trends and Challenges in Research areas of Computer Science, organized by Presidency College (Autonomous), Chennai, (UGC Sponsored) on February 15th -16th, 2007(PP. 48-49).

7.	DETAILS OF PARTICIPATION

(Conference(s) / Seminar(s) / Workshop(s) / Symposium(s))

CONFERENCES

- Participated the **Second International Virtual Conference on Artificial Intelligence for Internet of Things**, jointly organized by VIT University, Vellore and Universiti Teknikal Malaysia Melaka (UTeM), Malaysia on 07.04.2022 & 08.04.2022.

- Participated the **International Virtual Conference on Data Research – 2019**, Organized by VIT University, Chennai on 20th March 2019.

- Participated the State Level Conference on **Current Trends in Research Field of Computer Science**, Organized by Shrimati Indira Gandhi College & Computer Society of India, Trichy on Oct 13th & 14th, 2006

SEMINAR

- Participated one-day seminar on "Accreditation and Academic Excellence" on 19-10-2022 at VIT, Vellore campus.

TRANING PROGRAMME

- Completed Innovation Ambassdor Training (Advanced Level, Total 15 Sessions of 30 contact Hours) organized by MoE's Innovation Cell & AICTE during the IIC calendar year 2021-2022 in Online Mode.

- Completed Innovation Ambassdor Training (Foundation Level, Total 16 Sessions of 30 contact Hours) organized by MoE's Innovation Cell & AICTE during the period from 30th Jun 2021 to 30th July 2021 in Online Mode.

WORKSHOPS

- Participated in **National Workshop on Education 5.0 for Augmentation of Higher Education Institution** organized by uLektz Learning Solutions Pvt Ltd and Integrated Intelligent Research (IIR) at Chennai -17 on 19th November, 2022 (Saturday)

- Participated in **30 Days training Program in Image Processing using Open CV masterclass** conducted by Pantech E-learning Solution, Chennai

- Participated one-day workshop, "Development of e-content Delivery Management System" organized by IQAC Cell, Theivanai Ammal College for Women Autonomous, Villupuram, on 16.03.2022.

- Participated Two Weeks workshop on "Analytical Tools for Image Processing", organized under MHRD-RUSA 2.0, "Biomaterials", by University of Madras, Chennai on 01.02.2022 to 17.02.2022.

- Participated in workshop on "Online Admission and Outcome-based Education", organized by Mastersoft ERP Solutions Pvt. Ltd., Nagpur on 17.02.2022.

- Participated online workshop five days BootCamp on Image Processing-Morphological Process & Tools" organized by Pantech E-Learning, Chennai, on 08.02.2022 to 12.02.2022.

- Participated in two days online workshop, "Role of IPR on Innovation-Artificial Intelligence and Machine Learning" organized by Theivanai Ammal College for Women Autonomous, Villupuram, collaboration with Pantech E-Learning on 9.12.2021 &10.12.2021

- Participated in one month "Internet of Things", from Sep 19 2021& Oct 18 2021, organized by Pantech Solution with collaboration of SkillAP.

- Attended workshop on Outcome Based Education-Mapping/Attainment" organized by Curriculum Development Cell, Theivanai Ammal College for Women Autonomous, Villupuram, on 24.11.2021.

- Participated in "Five Days workshop on Scientific Thesis Writing" organized by Infowavez Solutions Ltd., Chennai from 07.06.2021 to 11.06.2021 @ 03:30-04:30 PM.

- "Five Days Android Workshop" organized Universal Teachers Academy Puducherry from 16.07.2020 to 20.07.2020 @ 2.00 PM

- "Five Days 3D Printing Internship" organized INTEGRATED INTELLIGENT RESEARCH (IIR), Chennai, from 23.06.2020 to 27.06.2020 @ 5.00 to 7.00 PM

- Participated in One Day "Mobile Application Testing Workshop" organized by Dextrasys Technologies, Trichy on 14.12.2019

- Participated in One Day National Level Workshop on "Research Methods and Data Analysis using SPSS", organized by Department of Mathematics, Thanthai Hans Roever College, Perambalur on 18th March 2016.

- Participated inOne Day National Workshop "Research in Data Mining Using WEKA Tools" organized by Roever College of Engineering and Technology, Perambalur on Aug 13th 2014.

- Participated in One Day Workshop on "Emerging Trends in Open Source & Green Computing" organized by Dhanalakshmi Srinivasan College of Arts and Science for Women, Perambalur, on Mar 12th 2014.

- Participated in One Day Workshop on "Effective Teaching Through Computing Technologies" organized by Government Arts College, Trichy, on Sep 26th 2011.

- Participated in Workshop "Introduction to the Solaris 10 Operating System" organized by Sun Microsystems India PVT Ltd, on Mar 19th 2008.

- Participated in the State Level Workshop on "Research Prospects in Data Mining" organized by Jamal Mohamed College (Autonomous), Trichy, on March 22nd, 2007.

- Participated in the Workshop on "Data Mining Using Rough Set Theory", organized by Periyar University, Salem on March 3rd, 2007.

WEBINARS

- International webinar on "Plagiarism – importance, consequence and how to avoid" jointly organized by AMIST university Malaysia and Theivanai Ammal College for Women Autonomous Villupuram on 08.03.2023.

- Webinar on "**Science & Society**", organized by Research and Development Cell and Science Departments at Theivanai Ammal College for Women Autonomous, Villupuram on 22.07.2021 @ 10:00-11:30.

- Two Days Webinar on "Professional Development Programme" organized by Theivanai Ammal College for Women (Autonomous) Villupuram on 18.7.2021 & 19.7.2021, @10:00-11:30.

- Webinar on "Tourism Revenge" organized by Theivanai Ammal College for Women (Autonomous) Villupuram and ISAL, Russia on 23.6.2021.

- Webinar on "Infusing Cloud Computing Services and Artificial Intelligence in Microsoft Azure" organized by Bishop Heber College, Trichy on 23.07.2020 @11.00 am to 12.00 pm.

- International Webinar on Deep Neural Network based Data Reconstruction for Landslide Prediction organized by IEEE and Computer Society of India Karunya Chapter in association with department of computer science and engineering on June 24 @11.00 am- 12.00 pm.

- International Webinar on WRITING A RESEARCH GRANT PROPOSAL (WARGP- 2020)-Computing Sciences & IT, Teerthanker Mahaveer University, Moradabad on Jun 15, 2020 10:15 AM

- International webinar on Digital and Business Intelligence organized by CSE department, BIT Sathyamangalam on 09.06.2020, 6.30 PM - 7.30 PM

- DGSOM Faculty Development Programme on Factor Analysis Principal Component Analysis using SPSS on 03.06.2020.

- "Webinar on Research Workflows, Research Metrics & Excellence in Academic Institutes", on 06-05-2020 @9:30 AM to 1:45PM, organized by AICTE-Elsevier.

- "2 Hrs Webinar on Advanced Business Analytics Using R Software", on 28-04-2020 @ 11:00 AM - 1:00 PM, organized by Brainswig Edutech Pvt Ltd, Chennai.

- International FDP on "Develop the ability to write Research Proposal", on 24-4-2020 @11.00 to 11:40 PM, organized by Adarsh Institute of Management and Information Technology, Bangalore – 18

- "Webinar on Data Visualization using Tableau", on 16-04-2020 @11:00 AM - 1:00 PM, organized by Brainswig Edutech Pvt Ltd, Chennai

- Participated the International Virtual Conference on Data Research – 2019, Organized by VIT University, Chennai on 20th March 2019.

- Attended the Webinar on "Pathway to Merge Industry and Institutional Gap in Engineering Education" Organized by Integrated Intelligence Research Groups , on Jan 4th 2017.

8. DETAILS OF PUBLICATIONS

(a) PATENT JOURNAL(S)

1. **The Indian Patent Office Journal No. 48/2021 Dated: 26.11.2021 Page No. 56394 published by Patent office, India. Title of the invention: "A METHOD TO DETECT AND CLASSIFY EPILEPTIC SEIZURE". First Examination Report submitted on 17.10.2022**

(b) JOURNAL(S)-

Orcid: https://orcid.org/0000-0002-0240-9833
Scopus ID: 57222335244

1. Manimekalai S, "**Artificial Neural Network with extreme learning machine-based Wastewater Treatment systems**". **Published in:** 2022 IEEE 2nd Mysore Sub Section International Conference (MysuruCon) IEEE Xplorer, Dec-2022 **DOI**: 10.1109/MysuruCon55714.2022.9972701
https://ieeexplore.ieee.org/document/9972701

2. Dr. S. Manimekalai ,T. Deepika, "**A Novel Method to Find Credit Card Counterfeit Detection Using K-Means Algorithm**", Journal of Algebraic Statistics,Vol-13 No.2 (2022). PNo -1125-1130. DOI: https://doi.org/10.52783/jas.v13i2.274
https://publishoa.com/index.php/journal/article/view/274

3. Dr. S Manimekalai, Fahmitha Noorin S,"**A Unique Method of Finding Heart Attack and Suggesting Preventive Prediction**" Journal of Algebraic Statistics, Vol-13 No.2 (2022). PNo -1473-1479.
DOI: https://doi.org/10.52783/jas.v13i2.313
https://publishoa.com/index.php/journal/article/view/313

4. Manimekalai S, Manohari K,"**Prediction of COVID-19 for diabetes patients using pre-trained convoluted Recurrent Neural Network and fast 3D-convolution neural network with U-net++**", Journal of Algebraic Statistics, Vol-13 No.2 (2022). PNo -1510-1522. DOI: https://doi.org/10.52783/jas.v13i2.320
https://publishoa.com/index.php/journal/article/view/320

5. Manimekalai S, Manohari K, "**Diagnosis of Adolescent Diabetes based cardiac risk prediction using MapReduce algorithm with Hadoop clustering and using Hybrid Architecture of Neural Networks**", Design Engineering, Toronto,volume(2021) , Issue 09, 14998-15020.

6. Manimekalai S, Prabha N, "**Imbalanced data Classification in Credit Card Fraudulent Activities Detection using Multi-Class Neural Network**"

Published in: 2022 Second International Conference on Artificial Intelligence and Smart Energy (ICAIS), IEEE Xplore, Mar-2022. **DOI:** 10.1109/ICAIS53314.2022.9742878
https://ieeexplore.ieee.org/document/9742878

7. Manimekalai S, Shanthi K, "**An Efficient approach for early detection of Cervical Cancer by using Classification Techniques**", International Journal of Computational Intelligence in Control, ISSN: 0974-8571Vol. 13 No. 2 (Dec-2021), Pages 347-352. (Scopus)
https://www.mukpublications.com/ijcic-v13-2-2021.php

8. Manimekalai S, Aiswariya P, "**An Analysis of Classification Techniques for Leukemia Detection**", International Journal of Computational Intelligence in Control, ISSN: 0974-8571Vol. 13 No. 2 (Dec-2021) Pages 315-323. (Scopus)
https://www.mukpublications.com/ijcic-v13-2-2021.php
https://www.mukpublications.com/resources/Vol.%2013%20No.%202%20(December%2C%202021)_pagenumber.pdf

9. Manimekalai S, Prabha N, "**A Comprehensive Review of Fraudulent Activity Tracking and Detection Techniques**", Advances and Applications in Mathematical Sciences, Volume 20, Issue 12, 2021, Pages 3365-3378, ISSN: (Web of Science)

10. Manimekalai S, Shanthi K,"A Survey of Feature Extraction for Pap-Smear Image Classification", REVISTA GEINTEC-GESTAO INOVACAO E TECNOLOGIAS, ISSN: 2237-0722 Vol. 11 No. 4 (2021) (Web of Science)
https://www.revistageintec.net/index.php/revista/article/view/2385

11. Manimekalai S, **Aiswariya P**," A Survey on Feature Extraction for Leukemia Detection in Blood Microscopic Images",REVISTA GEINTEC-GESTAO INOVACAO E TECNOLOGIAS,ISSN: 2237-0722 Vol. 11 No. 4 (2021) (Web of Science)
https://www.revistageintec.net/index.php/revista/article/view/2386

12. Manimekalai S, Arulselvarani S,"**Brain Tumor Segmentation and Detection of MR Images using Intuitionistic Fuzzy Clustering Mean(IFCM)**", Annals of Romanian Society for Cell Biology, Volume 25,Issue 3, (2021),Pages: 7669-7680, ISSN:2967-3019. (Scopus)
http://annalsofrscb.ro/index.php/journal/article/view/2312

13. Manimekalai S, Shanthi K," An **Efficient Cervical Image Segmentation Method Using Lagrange Dual Dictionary Learning in Convolutional Neural Network**", Annals of Romanian Society for Cell Biology, Volume 25, Issue 2, (2021), ISSN:2967-3019.
http://annalsofrscb.ro/index.php/journal/article/view/1138

14. Manimekalai S, Aiswariya P," **Global and Local Entropy Based Segmentation Model for Detecting Leukemia in Blood Images**", Annals of Romanian Society for Cell Biology, Volume 25, Issue 2, (2021), ISSN:2967-3019. (Scopus)
http://annalsofrscb.ro/index.php/journal/article/view/1136

15. Manimekalai S, Manohari K," **A Systematic Review on Disease Prediction in Bigdata with optimization and Map Reduce Framework**". International Journal of Future Generation Communication and Networking, Volume 13, Issue 4, (2020), Pages:4203-4209, ISSN: (Web of Science)
http://www.sersc.org/journals/index.php/IJFGCN/article/view/34931

16. Manimekalai S, Absana J, "**A Reinforced secure multi keyword search in Cloud Computing**", Science, Technology and Development Journal, Volume IX, Issue XII, Dec-2020. ISSN:0950-0707 (UGC Care List –II). http://journalstd.com/gallery/58-dec2020.pdf

17. Manimekalai S, Sivaranjani B, "**Mining Human Activity Patterns from Smart Home Big Data for HealthCare Applications using Mahout"**, International Journal of Advanced Research in Computer Science and Engineering Technology, Volume No.-9, Issue-4, Mar-2019, ISSN : 2454-9924. http://ijarcset.in/published/Mining Human Activity Patterns from Smart Home Big Data for HealthCare Applications using Mahout.pdf

18. Manimekalai S, Suguna R, Arulselvarani S, "**An Improvement of Sentiment Classification in Cloud Computing using Lexicon Based Dictionary Approach**", International Journal for Research in Engineering Application & Management(IJREAM), Volume No.-4, Issue-10, Jan 2019 E-ISSN: 2454-9150. (UGC Approved Journal in 2018) Impact Factor:5.646. http://ijream.org/papers/IJREAMV04I10046131.pdf

19. Manimekalai S, Suguna R, Arulselvarani S, "**An Intelligent Automatic Multi-Disease Prediction Technique using Data Mining Algorithms and Big Dat**a", International Journal of Computer Sciences and Engineering(IJCSE), Volume No.-6, Issue-10, Oct 2018, **Cited: 2** (PP: 684-690) E-ISSN: 2347-2693, (UGC Approved Journal in 2018) Impact Factor:3.022. https://doi.org/10.26438/ijcse/v6i10.684690

20. Manimekalai S, Suganthi R, "**Spectral Clustering Based Classification Algorithm for Text Classification**", International Journal of Engineering Science Invention (IJESI), Volume No.3, No.7, (PP. 36-41), ISSN (Online): 2319 – 6734, ISSN (Print): 2319 – 6726. (UGC Approved Journal) Impact Factor: 5.962.http://www.ijesi.org/papers/NCIOT-2018/Volume-3/7.%2036-41.pdf

21. Manimekalai S, Yogapriya K, "**Enhancing Rating Prediction Accuracy By Exploring Online User Sentiments**", International Journal of Engineering Science Invention (IJESI), Volume No.2, No.2,(PP. 11-17), ISSN (Online): 2319 – 6734, ISSN (Print): 2319 – 6726. (UGC Approved Journal) Impact Factor: 5.962.http://www.ijesi.org/papers/NCIOT-2018/Volume-2/2.%2011-17.pdf

22. Manimekalai S, ShanmugaPriya S, "**A Review on Brain Tumor Detection Using Immune System with Imaging Techniques**", International Journal of Engineering Science Invention (IJESI),Volume No.3, No.4,(PP. 20-24), ISSN (Online): 2319–6734, ISSN (Print): 2319 – 6726.(UGC Approved Journal) Impact Factor: 5.962.http://www.ijesi.org/papers/NCIOT-2018/Volume-3/4.%2020-24.pdf

23. Manimekalai, Dr.S.. (2017). **A Perspective Source Code on Software Reengineering Applications**. International Journal of Advanced Research in Computer Science. 8. 525-528. ISSN: 0976-5697, (UGC Approved Journal in 2016 & 2017). DOI: 10.26483/ijarcs.v8i8.4733

24. Manimekalai S, Suguna R, **An Enhanced Classification Algorithm for Breast Cancer Density using Feature Extraction and Segmentation Techniques**", International Journal of Advanced Research in Science and Engineering, Volume 6, Issue 10, Oct 2017(PP. 409-416), ISSN: 2319-8354, (UGC Approved Journal in 2016).

https://www.semanticscholar.org/paper/An-Enhanced-Classification-Algorithm-for-Breast-and-Manimekalai-Suguna/cebd7e78e1716d0fefd72740406dd1afbdef6ede

25. Manimekalai S, "**Component Based Software Development using Refactoring with FORM Method**", International Journal of Control Theory and Applications, © International Science Press, Volume 9, Issue 40, Dec 2016 (PP. 7-17), ISSN: 0974-5572, (UGC Approved Journal in 2016 & 2017 -Scopus).
https://www.researchgate.net/publication/313399703_Component_based_software_development_using_refactoring_with_form_method

26. Manimekalai S, Nishanthi R, "**An Impression Of Watershed Transformation for Glaucoma Segmentation**", International Journal of Inventions in Computer Science and Engineering, Volume 3, Issue 5, May 2016(PP. 55-63), ISSN (Online): 2348 – 3539, ISSN (Print): 2348 – 3431.
http://www.ijicse.com/papers/2016/may16/16507.pdf

27. Manimekalai S, Ranjani M, "**Investigating Privacy Preservation Issues in Data Mining**", International Journal of Emerging Technology in Computer Science and Electronics, Volume 20, Issue 3, March 2016 (PP. 9 -12), ISSN: 0976-1353.
http://www.ijetcse.com/wp-content/plugins/ijetcse/file/upload/docx/719INVESTIGATING-PRIVACY-PRESERVATION-ISSUES-IN-DATA-MINING-pdf.pdf

28. Manimekalai S, Santhi A, "**Analysis of Big Data Trends and Future Directions: A Review**", International Journal of Emerging Technology in Computer Science and Electronics, Volume 20, Issue 3, March 2016(PP. 5-8), ISSN: 0976-1353.
http://www.ijetcse.com/wp-content/plugins/ijetcse/file/upload/docx/425ANALYSIS-OF-BIG-DATA-TRENDS-AND-FUTURE-DIRECTIONS-A-REVIEW-pdf.pdf

29. Manimekalai S, Porselvan A, "**Comparative Study of Different Classification Algorithm in Internet Movie Dataset using Weka Tool**", International Journal of Infinite Innovation in Engineering and Technology, Volume 3, Issue 45, May 2016 (PP.49-56), ISSN: 2349 227.

30. Manimekalai S, "**State of the Art with Cooperative Approach for Software Product Lines in IC Reengineering**", Middle-East Journal of Scientific Research, IDOSI Publications, DOI:10.5829/idosi.mejsr.2016.24.02.22952, 2016 (PP. 271-278), **Cited:1,** ISSN: 1990-9233,(UGC Approved Journal in 2016).
https://www.semanticscholar.org/paper/State-of-the-Art-with-Cooperative-Approach-for-in-animekalai/b2814ca7c551993aff37570d5f012511f0fc6f9f   (OR)
https://www.idosi.org/mejsr/mejsr24(2)16/10.pdf

31. Dr. S. Manimekalai, "Analytical Research on Anxiety of Reengineering With Information Technology Employees", International Journal of Science and Research (IJSR), Volume 4, Issue 4, April 2015, Pages: 2137 – 2140, ISSN: 2137 – 2140.
https://www.ijsr.net/search_index_results_paperid.php?id=SUB153304

32. Manimekalai S, "**A Study on Biometric for Single Sign on Health Care Security System**", International Journal of Computer Science and Mobile

Computing, Volume 3, Issue 6, June- 2014 (PP. 79-87), ISSN: 2320-088X, **cited 7**, (UGC Approved Journal in 2016).
https://pdfs.semanticscholar.org/884c/542f2dff475755c4b334ed2234d332c5b6a8.pdf

33. Manimekalai S, "A **Cognitive Approach to Mobile Application in Green Commerce**", International Journal of Emerging Trends & Technology in Computer Science, Volume 2, Issue 6, November – December 2013(PP. 302-304), ISSN: 2278 – 6856, **Cited 4**(UGC Approved Journal in 2016).
https://www.researchgate.net/publication/293402024_A_Cognitive_Approach_to_Mobile_Application_in_Green_Commerce

34. Manimekalai S, "**Motion Image Capturing System and Signal Transmission to Wireless Communication**", Elixir International Journal, April-June-2013 (PP. 15632-15636), ISSN: 2229–712x, (UGC Approved Journal in 2016).
https://www.elixirpublishers.com/articles/1370698898_59%20(2013)%2015632-15636.pdf

35. S. Manimekalai, E. Kirubakaran, **"Emerging Trends in Reengineering for Cloud Computing**", International Journal of Computing Algorithm, Vol. 1, Issue 1, 2012, pp. 4-7, ISSN: 2278-2397.
http://dx.doi.org/10.20894/IJBI.105.001.001.002

36. Manimekalai S, Kirubakaran E, "**Wrapper Based Design Conversion to Database in Reengineering**", International Journal of Advanced Research in Computer Science, Volume No. 2, No.2, Mar-Apr 2011 (PP. 445-450), ISSN: 0976-5697, **Cited 1**, (UGC Approved Journal in 2016 & 2017).
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37. Manimekalai S, Kirubakaran E, "**Re-Engineering for GUI Conversion from Markup Language to Programming Language**", International Journal of Advanced Research in Computer Science, Volume No.1, No.4, Nov-Dec 2010 (PP. 354-359), ISSN: 0976-5697**, Cited 1**,(UGC Approved Journal in 2016 & 2017).https://www.ijarcs.info/index.php/Ijarcs/article/view/182/173

(c)   PROCEEDING(S)

1. Manimekalai S, Abitha G, Amsavalli D, Varalakshmi M,"**Virtual Assistant for Visually impaired users using Deep Learning**", at Stochastic Modelling and Applications, Vol.26, No.3(Jan-Jun,Special Issue 2022-part-9) ISSN:0972-3641.

2. Manimekalai S, Twinkle D, Sahanaa S, Hemapriya K, Varsha A,"**IoT based Smart Agriculture field monitoring and control system**", at Stochastic Modelling and Applications, Vol.26, No.3(Jan-Jun, Special Issue 2022-part-8) ISSN:0972-3641.

3. Manimekalai S, Manohari K, "**Diagnosis of Adolescent diabetes based cardiac risk Prediction using Map Reduce Algorithm with Hadoop clustering and using Hybrid Architecture of Neural Network",** at International Conference on Management, Engineering Science and Humanities organized by Builders Engineering College, Tirupur, ISBN:978-93-91535-16-2, Pages:370-388.

4. Manimekalai S, Bhuvaneshwari P, "**Analyzing & Detecting Money-Laundering Accounts in Online Social Networks**", Journal of The Maharaja Sayajirao University of Baroda, Vadodara, Volume:55, Issue No.1(IV), Pages: 16-23, (2021), ISSN No: 0025-0422 (UGC Care Group1 Journal).

5. Manimekalai S, Pavithra V, "**Malaria Parasite Classification System using Convolutional Neural Network**", Journal of The Maharaja Sayajirao University of Baroda, Vadodara, Volume:55, Issue No.1(IV), Pages:24-31, (2021), ISSN No: 0025-0422 (UGC Care Group1 Journal).

6. Manimekalai S, Suguna R, "**Collaborative Recommender System for Online Users using Map Reduce Algorithm in Big Data**", ROOTS International Journal of Multidisciplinary Researchers, Volume No.4, Special Issue 1, December 2017, (PP. 82-87), ISSN:2349-8684, (UGC Approved Journal) Impact Factor:3.497. https://www.rootsjournal.com/brochurepdf/special_issue_dec_2017.pdf

7. Manimekalai S, Thilagavathi S, "**An overview of privacy preserving Datasets using Watermarking Techniques**" at National Conference on Recent Trends in Mathematical Computational Techniques, organized by Thanthai Hans Roever College, Perambalur on Apr 12th 2016. (PP. 90- 96).

8. Manimekalai S, Nishanthi R, Paper Proceeding "**An Impression of Watershed Transformation for Glaucoma Segmentation",** at National Conference on Recent Trends in Mathematical Computational Techniques, organized by Thanthai Hans Roever College, Perambalur on Apr 12th 2016. (PP. 80- 89).

9. Manimekalai S, Porselvan A, "**Comparative study of Different Classification Algorithms in Internet Movie dataset using WEKA Tool**", at National Conference on Recent Trends in Mathematical Computational Techniques, organized by Thanthai Hans Roever College, Perambalur on Apr 12th 2016.(PP. 106- 111).

10. Manimekalai S, Kirubakaran E, "**Model Driven Development for Software Architect in Reengineering with Cloud Computing**", International Journal of Computational Intelligence and Informatics Volume No.2, No.1, April-June-2012 (PP. 14-19), ISSN: 2231-0258. http://docplayer.net/141076231-Model-driven-development-for-software-architect-in-reengineering-with-cloud-computing.html (or) https://www.periyaruniversity.ac.in/ijcii/issue/Vol2No1June2012/IJCII%202-1-52.pdf

(d)   BOOK(S) / CHAPTER(S) / MONOGRAPH(S) / MANUAL(S)

1. Manimekalai S, "**Effective Object Oriented Programming in C++**", May 2009, ISBN: 978-81-908577-8-9, Raja Publications, 4/1,S.S.H Shelter, Hazarath Abdul Salam Street, Khaja Nagar, Tiruchirappalli- 620 020.

2. Manimekalai S, "**Designing Active Server Pages**", March 2010, ISBN: 978-81-908679-5-5, Scitech Publications, No.7/3c, Madley Road, T.Nagar, Chennai 600 017.

8.   DETAILS OF RESEARCH GUIDANCE

1. Absana J, "A Reinforced Secure Multi Keyword Search in Cloud Computing" on July 5 2021.
2. B.Sivaranjani, "Mining Human Activity Patterns from Smart Home Big Data For Health Care Applications Using Mahout" on5 Jun 2019.
3. Shanmuga Priya S, "Brain Tumor Segmentation and Detection in MR Images Using KFCM Algorithm", May-18.

4. Agneta J, "Software Reengineering Application on a Source Code Perspective", Feb-17

5. Heera Banu L,"Region Features and Segmentation of Breast Cancer Image Density Classification",Feb-17.

6. Elavarasi P,"Multi Resolution of Satellite Imagery in Land Classification using MATLAB",Feb-17

7. Karthika P "A Study on Edge Detection and Segmentation of Oral Cancer Images(OCI)", Feb-17

8. Balaji V," A Comparative study on source code analysis of C#, C++ and Java Programming Languages", Feb-17

9. Santhi A, "Self-Adaptive Semantic Focused Crawler for Mining", Mar-16.

10. Ranjani M," Investigating Privacy Preservation Issues in DataMining", Mar-16

11. Poreselvan A," Hybrid Picture Recommenders based on Neural Networks and Decision Trees", Mar-16

12. Nishanthi R," Glaucoma Detection using Pixel based Segmentation and Watershed Transformation", Mar-16

13. Thilagavathi S,"Watermark Technique for Datamining",Mar-16

9. EVENT(S) ORGANIZED

1. Event organized, National Webinar on "**Research Trends in Academic Writing and Publishing in Computer Science**" in Theivanai Ammal College for Women Autonomous Villupuram on 02.06.2021 with Resource Person Dr T Velmurugan, Head Department of Computer Science, DG Vaishnav College, Chennai.

2. Event organized, International Video Conferencing on "**Machine Learning**" in Theivanai Ammal College for Women Autonomous Villupuram on 06.03.2021 with Resource Person Dr. Prabhakar Rontala Subramaniam, Senior Lecturer, IT and Governance University of KwaZulu-Natal Durban, South Africa.

3. Event **o**rganized, **National Seminar on Mobile Computing** in Theivanai Ammal College for Women Autonomous, Villupuram on 01.02.2021 with Resource Person Dr R GOBI Assistant Professor Department of Computer Science CHRIST (Deemed to be University), Bengaluru, Karnataka.

4. Event organized, National Webinar on **Blockchain Technology** in Theivanai Ammal College for Women Autonomous Villupuram on 31.01.2021 with Resource Person Raju Halder, Assistant Professor, Programming LANguages & Robotics (PLANR) Lab, Department of Computer Science & Engineering, Indian Institute of Technology Patna, India

5. Event organized, **Technology Based Skill Development Programme** in Nehru Memorial College Autonomous Puthanampatti on 26.06.2019 & 27.06.2019 with Resource Person Mr. T Sivakumar, Managing Director, Learning Center, Trichy & Mr. M Shanmugasundaram, Managing Director, Micred Technologies, Puducherry.

6. Event organized, **Video Conferencing in Data Science** in Theivanai Ammal College for Women Autonomous, Villupuram on 08.03.2019 with Resource Person Dr Clement King, King Khalida University, Saudi Arabia.

7. Event organized, **National Workshop in Cyber Security** in Theivanai Ammal College for Women (Autonomous), Villupuram on 24.01.2019 with Resource Person Ms Jamuna Swamy Mr Balachandar Natarajan, ICSCA, Chennai Chapter.

8. Event organized, **National Seminar in Recent Trends in Mathematical Modelling and Soft Computing** in Theivanai Ammal College for Women (Autonomous), Villupuram on 01.02.2018 with Resource Person Dr Udaya Kumar, Professor & Head in Mathematics, GRI-DU, Dindigul

9. Event organized, **Video Conferencing in Angular JS** in Theivanai Ammal College for Women (Autonomous), Villupuram on 20.12.2017 with Resource Person Mr J James Manoharan, Head, Department of Computer Application, Bishop Heber College, Trichy.

10. Event organized, **Video Conferencing in Bigdata Analytics** in Theivanai Ammal College for Women (Autonomous), Villupuram on 10.08.2017 with Resource Person Dr S P Syed Ibrahim, VIT University, Chennai.

11. Event organized, **National Seminar in Data Science**, Theivanai Ammal College for Women (Autonomous), Villupuram on 28.03.2017 with Resource Person Dr. V Bhuvaneswari , Assistant Professor in Computer Science, Bharathiyar University Coimbatore.

12. Event organized, **IT StartUps** in Thanthai Hans Roever College, Perambalur on 12.8.2016 with Resource Person Dr Ashok Kumar, Associate Professor, Government Arts College, Trichy-22

13. Event organized, **Recent Trends in Information Technology** in Thanthai Hans Roever College, Perambalur on 21.09.2015 with Resource Person Dr Gopi Dept. of Computer Science NIT, Trichy

14. Event organized, **HoTWEB** in Thanthai Hans Roever College, Perambalur on 12.09.2014 with Resource Person P.Rengaraju, CEO NivoSoft, Chennai

15. Event organized, **Emerging Trends in Information Technology** in Thanthai Hans Roever College, Perambalur on 18.02.2014 with Resource Person Dr. E. Kirubakaran,AGM, SSTP(System),Bharat Heavy Electricals Limited, Trichy.

INTEL WEBINARS

1. Event organized, Webinar in **Drive Innovation and Performance into Your Python Scikit-learn ML Tasks in** Theivanai Ammal College for Women Autonomous Villupuram on 3.11.2021 (09:00-10:00)

2. Event organized, **Webinar in How can you Operationalize your Data Science Projects** in Theivanai Ammal College for Women Autonomous Villupuram on 27.2.2019 (10.00 – 11.00) with resource person Dr. Engin Cukuroglu, Data Scientist at Hitachi Vantara, Singapore.

3. Event organized, **Webinar in Data Science Orientation Session**, in Theivanai Ammal College for Women Autonomous Villupuram on 07.02.2019(3.00–4.00 pm) through Digital Vidya Online using VoIP - Voice over Internet Protocol.

4. Event organized, **Webinar in Deploying Image Classifiers on Edge Devices**, in Theivanai Ammal College for Women Autonomous Villupuram on 20.3.2018 (11.30-12.30 pm) with resource person Vijayakumar, Lead Application Architect, Intel Corporation

5. Event organized, **Webinar in Building Machine Learning Application with Intel Distribution for Python** in Theivanai Ammal College for Women Autonomous Villupuram on 11.1.2018 (12.30-1.30 pm) with Resource Person Mr.Naveen, Software Engineering Manager, Intel Software products.

6. Event organized, **Webinar in Introducing the latest Intel SoC for** IoT in Theivanai Ammal College for Women Autonomous Villupuram on 25.10.2016(11.30-12.30pm) with Resource Person David Ting, Electrical Validation Engineer and Technical Marketing Engineer, Intel Desktop Board.

10. DETAILS OF PROFESSIONAL DEVELOPMENT

(Orientation / Refresher Course / FDP / Short Term Course / Online Course)

ORIENTATION PROGRAMME

1. Attended the *Workshop for Ph.D Scholars Research Orientation* organized by Mother Teresa Women's University, Kodaikanal, on August 31st, 2007.

2. Attended the *Workshop for Ph.D Scholars Research Orientation* organized by Mother Teresa Women's University, Kodaikanal, on Jan 19th, 2008.

FACULTY DEVELOPMENT PROGRAMME

1. Participated Bridge'2023 ICT Academy, Chennai Trade Centre, Chennai on 14.03.2023.

2. Participated Eight days FDP in **Cyber Security** organized by ICT Academy from 7.11.2022 to 16.11.2022. **Exam conducted on 26.11.2022.**

3. Participated Five Days Faculty Development Programme on "**e-Learning and e-Content Development**", organized by RUSA 2.0, entrepreneurship and career hub, University of Madras, Chennai on 07.03.2022 to 11.03.2022.

4. Participated in "**Current & Future ICT Challenges, Threats and Recommendations for growth", organized by National Education Empowerment Teacher's Initiative Colloboration with Mastersoft"** on 27th Oct 2021.

5. **Five Days** Faculty Development Programme on "**IPR Awareness and Patent Prosecution**", organized by Oriental Institute of Science & Technology, Bhopal, from 13-17 July 2021 @02:30-4:00, 3:00-4:00 and 3:00-4:30.

6. **Five Days** International Faculty Development Programme (FDP) on "**Data Science and Machine Learning**", organized by Bannari Amman Institute of Technology, Sathyamangalam, from 13-17 July 2021 @10:00-12:00, 9:00-11:00 and 4:00 to 6:00.

7. **Five Days** AICTE Training and Learning **(ATAL**) Academy Online **FDP on "BLOCKCHAIN"**, organized by Indian Institute of Technology (**IIT)** Patna from 2020-12-20 to 2020-12-14.

8. **Five Days** AICTE Training and Learning **(ATAL**) Academy Online **FDP on "Internet of Things (IoT)"**, organized by Indian Institute of Information Technology (**IIIT)** Allahabad from 2020-12-7 to 2020-12-11.

9. "**Three days Faculty Development Programme(FDP) on BEST PRACTICES IN RESEARCH**" from Nov 2, Nov 4, and Nov7 2020 organized by

Sree Narayana College Nattika Thirussur, Kerala in academic collaboration with the Kerala State Higher Education Council.

10. "**10 Days (35 Hours) Faculty Development Program / Short Training on Artificial Intelligence(AI), Machine Learning, Deep Learning &its Applications**" from 9th Sep to 21st Sep 2020 organized by **EduxLabs** (Esoir Business Solutions LLP).

11. Attend through webinar Faculty Development Programme on "**Novel Tool for Online Teaching**" organized by Bishop Heber College, Trichy on 25.07.2020 @11.00 am to 12.00 pm

12. Attend the One Day Faculty Development Programme on "**Microsoft Innovative Educator**" organized by Nehru Memorial College Autonomous, Puthanampatti on Nov 29th 2019.

13. Attended the Two Days Faculty Development Programme on "**Mobile App Development**" organized by Nehru Memorial College Autonomous, Puthanampatti on June 10th and 11th 2019.

14. Attended the One Day Faculty Development Programme on "**Mentoring and Counselling**" organized by Nehru Memorial College Autonomous, Puthanampatti on May 30th 2019.

15. Participated one-day International Workshop on "**World Class Curriculum Design for Computer Science"** organized by Bharathidasan University, Trichy on 28th July 2017.

16. Attended the Three Days Faculty Development Programme on "**Data Center Virtualization**" organized by Theivanai Ammal College for Women(Autonomous), Villupuram on Nov 22nd to 24th 2016.

17. Attended the Five Days Faculty Development Programme on "**Hadoop (Horton works)"** organized by Sri Sai Ram Institute of Technology, Chennai on July 18th to 22nd 2016.

SHORT TERM COURSE(S)

- **NPTEL – Exam – Software Testing – 26-03-2023 - Cleared**
- In **PENTASOFT**, Advanced Internet Power Programming, Passed in **First** Class
- In **BDPS**, Diploma in Advanced Computer Technology Passed in **First** Class.
- **Department of Technical Education,** Computers on Office Automation**,** Passed in **First Class with Distinction.**

11.   ACADEMIC MEMBERSHIP

Professional Membership

- IEEE – Professional Membership.

Academic Bodies (Board of Studies):

1. Member of the **Academic Council** at Theivanai Ammal College for Women (Autonomous), Villupuram

2. Member of the **Board of Studies** at Theivanai Ammal College for Women (Autonomous), Villupuram

3. Member of Board of Examiners for Ph.D at Bharathiyar University, Coimbatore.

1. Member in International Seminar on "Emerging Trends in Computing Technologies", organized by Department of Computer Science and Mathematics at E.S Arts and Science College (Co.Ed), Villupuram.
2. Reviewer:
   a. International Conference on Sustainable Advanced Computing - ICSAC 2021, organized by the Department of Computer Science, CHRIST (Deemed to be University), Bangalore, Karnataka, India and to be considered for the publication in **Springer LNEE. (2 Papers)**
   b. **Taylor & Francis Online -** Imaging Science Journal
   c. Nominated you as a reviewer for the Department of Computer Science, CHRIST (Deemed to be University), Central Campus, Bangalore, India and Modern College of Business and Science, Muscat, Oman will jointly organize the **INTERNATIONAL CONFERENCE ON COMPUTATIONAL SCIENCES AND SUSTAINABLE TECHNOLOGIES (ICCSST – 2023),**during May 08-09, 2023.

12. DISTINCTIVE ACHIEVEMENT(S) / RECOGINITION(S) / AWARD(S)

Awards

- Received "**Teaching and Research Excellence in Gurukul Academic Awards 2022**" in International Award Conference on Multidisciplinary Research and Latest Innovation-2022 jointly organized by J.S University Manipuri – shikohabad, Uttar Pradesh, Institute for Social Reforms and Higher Education Charitable Trust, Uttar Pradesh, Bhopal Intellectual Progressive Education Society, State Madhya Pradesh, Co-organizer of Bharat Vikas Parishad Modinagar on 20th Nov 2022.

- Received "**Indo Asian–Ken Thompson Distinguished Innovative Scientist Award in Computer Science**" in International Dialogue on UN Goals – Peace, Justice, Strong Institutions; Industry, Innovation and Infrastructure & International Academic Excellence Awards 2020 organized as a part of "A Project of the IMRF in Honour of The United Nations Seventy Fifth Anniversary on December 30th 2020.

- Received Republic Day Achievers Award -2018 as "**Best Faculty Computer Science – Software Reengineering**" for the year 2017 organized by Integrated Intelligent Research in Loyola College on 18.01.2018.

- Received "**Certificate for Appreciation**" in Thanthai Hans Roever College, Perambalur for continuous effort and valuable contribution to the overall development of the Information Technology department during the year 2013-2014.

- Secured **V Prize** for Paper Presentation "**Motion Image Capturing System and Signal Transmission to Wireless Communication**" at National Level Seminar on Emerging Trends of Mathematical Techniques and their Applications in Computer Science, organized by Shrimati Indira Gandhi College, Trichy-2, on February 23rd -24th, 2007(PP. 89).

Recognition

- Received **Coordinator Certificate with (A+) for 30 Days training Program** in Image Processing using Open CV masterclass conducted by Pantech E-learning Solution, Chennai

13.	OVERSEAS EXPOSURE / VISIT(S) (Academic & Research)

- Presented a paper "**Collaborative Recommender System for Online Users using Map Reduce Algorithm in Big Data**", at International Conference on Emerging Trends in Multi-Disciplinary Research, organized by **The American College Madurai held in Singapore on 27-30th December 2017.**

14.	GUEST LECTURE / RESOURCE PERSON

- Delivered a talk on 5 days FDP "MongoDB in Bigdata Processing" organized by PG & Research department of Computer Science in Theivanai Ammal College for Women Autonomous Villupuram on 04.03.2023.
- Delivered a talk on One day **Workshop in Python**, organized by Department of Computer Science in Sri Sarada Mahavidyalayam Arts and Science College for Women,Ulundurpet on 22.11.2022.
- Delivered a talk on "e-Content Development" organized by Theivanai Ammal College for Women Autonomous Villupuram with TNSCST Sponsored Programme on 26th July 2022 and 23rd August 2022.
- Delivered a talk on "Orientation programme on Institutions Innovation Council" at E.S Nursing College, V.Salai, Villupuram on 30.12.2021
- Delivered a talk on "Role of IPR on Research- Patent Filing" organized by Research Development Cell and IIC at Theivanai Ammal College for Women Autonomous Villupuram, on 30.11.2021
- Delivered a talk on "Role of IPR on Research- Article Writing" organized by Research Development Cell and IIC at Theivanai Ammal College for Women Autonomous Villupuram, on 30.11.2021
- Delivered a talk on "Role of IPR on Research – Plagiarism" at E.S Nursing College, V Salai, Villupuram on 23.10.2021
- Delivered a talk on Five Days National Webinar - An overview of Modern Technologies in Computer Science on day2, in the topic "**MongoDB in Bigdata Processing,** at Srimath Sivagnana Balaya Swamigal Tamil, Arts & Science College, Milam on 02.08.2020.
  https://youtu.be/0EwaySt1Fxk
- Bridge Course "**Networking**", at Nehru Memorial College Autonomous, Puthanampatti on 02.07.2019.
- Delivered a keynote address in National Level Technical Symposium "**Selfie-19**" at Srimath Sivagnana Balaya Swamigal Tamil, Arts & Science College, Milam on 09.02.2019.
- Delivered a talk on "**Innovation and Exposure in Information Technology**", at Young Student Scientist Programme, Thanthai Hans Roever College, Perambalur on 20.05.2015.

- Delivered a talk on "**No SQL Databases ~ MongoDB**", at Department of Computer Science, Arignar Anna Government Arts College, Musiri on 05.02.2015.
- Delivered a talk on "**Emerging Trends in Computer Science**", at Department of Computer Science, Arignar Anna Government Arts College, Musiri on 21.02.2014.
- Delivered a talk on "**Intro of Research Proposal Writing**", at Faculty Development Programme at Thanthai Hans Roever College, Perambalur, on 27.09.2013.
- Appointed as Resource Person to conduct the **Personal Contact Programme** for **M.C.A Degree in the subject "301-Computer Networks**" for semester-III, Batch 'A', Offered by the centre for Distance Education, Bharathidasan University, Trichy-22 from 20.08.2011 to 23.10.2011.
- Appointed as Resource Person to conduct the **Personal Contact Programme** for **PGDCA Degree in the subject "102-Principles of Programming**" for semester-II, Batch 'A', Offered by the centre for Distance Education, Bharathidasan University, Trichy-22 from 25.09.2010 to 27.11.2010.

| 14. | **EXTENSION ACTIVITIES / OUTREACH PROGRAMME** |

1. Conducted Hands-on-Training in "**NoSQL~MongoDB**" to the III UG Computer Science Students at Theivanai Ammal College for Women, Villupuram on 21.03.2018. **No. of Beneficiaries: B.Sc CS- 76**
2. Conducted Hands-on-Training in "**R Programming**" to the M.Phil Scholars and II M.Sc Students at Theivanai Ammal College for Women, Villupuram on 13.03.2017. **No. of Beneficiaries: M.Phil – 8 and II M.Sc CS - 19**
3. Conducted Workshop by giving Hands-on-Training to the II M.Sc Students in "**Python Programming Language**" implemented to UG Final year students of Computer Science(20) and Computer Applications (20) at Theivanai Ammal College for Women, Villupuram on 26.10.2016. **No. of Beneficiaries: III B.Sc CS- 15 & III B.C.A -15**
4. Conducted Workshop by giving Hands-on-Training to the MPhil Scholars in "**Weka Tool Explorer"** implemented to M.Sc Computer Science(32) and II M.C.A(4) at Theivanai Ammal College for Women, Villupuram on 01.10.2016. **No. of Beneficiaries: I M.Sc CS- 13 and II M.Sc CS -19.**
5. Delivered a talk on "RoInfoTech-2015 – **Digital India- Internet for ALL**" at Thanthai Hans Roever College, Perambalur, on 04.09.2015.
6. Delivered a talk on "RoInfoTech-2015 – **A Study on Cognitive Science – nature of mind and Intelligence Systems**" at Thanthai Hans Roever College, Perambalur, on 27.07.2015.

7. Delivered a talk on "RoInfoTech-2015 – **MinSOR Tool**" at Thanthai Hans Roever College, Perambalur, on 08.07.2015.

8. Delivered a talk on "RoInfoTech-2014 – **Cloud Computing ~ MongoDB**" at Thanthai Hans Roever College, Perambalur, on 26.09.2014.

9. Delivered a talk on "RoInfoTech-2014 – **Professional Career in Information Technology**" at Thanthai Hans Roever College, Perambalur, on 28.03.2014.

10. Delivered a talk on "RoInfoTech-2014 – **Recent Trends in Information Technology**" at Thanthai Hans Roever College, Perambalur, on 10.02.2014.

11. Delivered a talk on "RoInfoTech-2014 – **Classification of Different Types of Programming Languages**" at Thanthai Hans Roever College, Perambalur, on 06.01.2014.

15. ACADEMIC / ADMINSTRATIVE RESPONSIBILITIES HELD

Implemented Innovative Activity:

- Engagement Learning – **(2016-2017)**,
- Webinar – **(2017-2018,2020-2021,2021-2022)**,
- Google Classroom –**(2018-2019)**,
- Virtual Labs-**(2019-2020,2021,2022).**
- Software Development Cell **(2020- 2021,2021-2022)**

Coordinator:

- **One Year Automation Coordinator (2016-2017)** in Theivanai Ammal College for Women (Autonomous),Villupuram. Developed 3 Software

  1. Pre-Admission Data Entry Software
  2. Online Examination
  3. Voting System

- **Two Years Vocational Course Coordinator (2016-2018)** – Certificate & Diploma Course in Theivanai Ammal College for Women (Autonomous), Villupuram

- **One Year College Development Council Coordinator** in Theivanai Ammal College for Women(Autonomous),Villupuram **(2017-2018).**

- Prepared a report of NAAC – Criterion VII of Thanthai Hans Roever College, Perambalur. (**2015 - 2016**).

- Prepared a report of NAAC (2018-2019) and Autonomous Extension visit((2020-2021) in Theivanai Ammal College for Women(Autonomous),Villupuram

Member:

- **Four Years Member in IQAC and Research and Development Cell** in Theivanai Ammal College for Women (Autonomous),Villupuram. **(2017-2019 & 2020-2022).**

- **Three Years Member in Research and Development Cell** in Thanthai Hans Roever College, Perambalur.

- **Two Years member in College Development Council i**n Theivanai Ammal College for Women(Autonomous),Villupuram **(2020-2022).**

External Examiner:

Question Paper Setter, Central Valuation, and Practical Examiner acted as Examiner under Bharathidasan University, Trichy, and Thiruvalluvar University, Vellore.

REFERENCES

Reference 1: Dr E Kirubakaran - ekirubakaran@gmail.com - 9442631150
Reference 2: Dr C R Uthra   – uthra.chellappa@gmail.com 9943744330
Reference 3: Dr S Arulselvarani - arul2catchme@gmail.com -9894119451