Dr.S.SAUDIA,

Associate Professor,

Centre for Information Technology and Engineering,

School of Computer Science and Engineering,

Manonmaniam Sundaranar University,

Tirunelveli-12, Tamil Nadu, INDIA

Email: saudiasubash@msuniv.ac.in

saudiasubash@yahoo.com

Phone: +91 9443693758

Academic Qualification:

- **B.E., -** Faculty: Engineering, Subject: Electrical and Electronics Engineering from Manonmaniam Sundaranar University, Tirunelveli, India with Distinction (April 2002).
- **M.Tech., -** Faculty: Engineering, Subject: Computer and Information Technology from Manonmaniam Sundaranar University, Tirunelveli, India with **II Rank** (April 2004).
- **Ph.D., -** Faculty: Engineering, Subject: Information Technology- Computer Science and Engineering (interdisciplinary) from Manonmaniam Sundaranar University, Tirunelveli, India (October 2011).

Academic Experience:

- **Lecturer on Contract** in the Center for Information Technology and Engineering, Manonmaniam Sundaranar University, Tirunelveli, India from 1st October 2004 to 31st December 2005.
- **Assistant Professor** in the Center for Information Technology and Engineering, Manonmaniam Sundaranar University, Tirunelveli, India from 2nd January 2006 to 3rd December 2021.
- **Assistant Professor** in the Department of Computer Science, College of Computer Science, King Khalid University, Abha, Kingdom of Saudi Arabia (19th September 2012 to 19th August 2015).
- **Associate Professor** in the Center for Information Technology and Engineering, Manonmaniam Sundaranar University, Tirunelveli, India from 4th December 2021 till date.

Administrative Experience:

1. **Member, Syndicate-** Manonmaniam Sundaranar University, Tirunelveli-12, Tamil Nadu, India from 1st August 2018 to 31st July 2021.

2. **Member of Selection Committee-** Temporary Teachers Appointment in Centre for Information Technology and Engineering, Manonmaniam Sundaranar University Tirunelveli-12, Tamil Nadu, India, 14th July 2010.

3. **Co-ordinator-** Learning Resource Committee, Quality and Development, Department of Computer Science, King Khalid University, Kingdom of Saudi Arabia, from 2012-2013.

4. **Advisor-** SOCIT, Centre for Information Technology and Engineering, Manonmaniam Sundaranar University Tirunelveli-12, Tamil Nadu, India for recording SOCIT account details and arranging SOCIT meetings to manage SOCIT funds from 20th August 2015 to 24th August 2016.

5. **Programme Co-ordinator-** M.Sc. Information Technology in Centre for Information Technology and Engineering, Manonmaniam Sundaranar University Tirunelveli-12, Tamil Nadu, India, for academic years from June 2016 to April 2017 and June 2017 to April 2018.

6. **Programme Co-ordinator-** M.Sc. Data Analytics in Centre for Information Technology and Engineering, Manonmaniam Sundaranar University Tirunelveli-12, Tamil Nadu, India, for academic years from June 2018.

7. **Member of the Adhoc Board of Studies-** Certificate Course in Computer Technology, Manonmaniam Sundaranar University Tirunelveli-12, Tamil Nadu, India for the academic year 2016-2017.

8. **Member of the Scrutiny Committee-** Selection of nominees for Tamil Nadu State NSS Awards, Manonmaniam Sundaranar University Tirunelveli-12, Tamil Nadu, India for the year 2017-2018.

9. **Purchase Committee Member-** Purchase Committee for the University departments of Economics, Commerce, Education, Management Studies, Criminology and Criminal Justice, Manonmaniam Sundaranar University Tirunelveli-12, Tamil Nadu, India from 2018-2019.

10. **University Representative-** To Vyasa College of Arts and Science for Women, affiliated to Manonmaniam Sundaranar University Tirunelveli-12, Tamil Nadu, India - February 2019.

11. **University Representative-** To Sree Ayyappa College for Women affiliated to Manonmaniam Sundaranar University Tirunelveli-12, Tamil Nadu, India from April 2017 to January 2019.

12. **Member, Scrutiny Committee-** Women Achiever Award, Centre for Women Empowerment and Women Studies for International Women's Day 2021, Manonmaniam Sundaranar University, Tirunelveli-12, Tamil Nadu, India

13. **Awards Committee Member-** University Nominee to Sarah Tucker College, Palayamkottai, Tirunelveli from 4th March 2022 to 3rd March 2025.

14. **Member/ Subject Expert-** Inspection Commission from the Manonmaniam Sundaranar University to the Colleges Affiliated to the University (2019, 2021, 2023, 2024).

15. **Convener-** Students' ID Card Committee, 30th (3rd February 2024) and 31st (26th October 2024) Annual Convocation Committee, Manonmaniam Sundaranar University, Tirunelveli-12, India

Research Areas

Digital Image Processing	Data Science and Analytics
Computer Vision	Machine Learning
Soft Computing	Deep Learning

Research Index:

(As per Google Scholar dated 22.11.2024)

- Citation index: **428**
- H-Index: **13**
- I10 Index: **17**

Journal publications:

1. Varghese J, Ghouse M, **Subash Saudia**, Siddappa M, Khan MS, Hussain OB. Efficient adaptive fuzzy-based switching weighted average filter for the restoration of impulse corrupted digital images. IET Image Processing. **2014 Apr**;8(4):199-206 (SCIE).

2. Varghese J, **Subash Saudia**, Khan MS, Ghouse M, Hussain OB, Lotus R. An Efficient Weighted Median Filter for the Restoration of Images Corrupted by Random Valued Impulse Noise. International Journal of Computer Information Systems and Industrial Management Applications. **2014 Apr** 1;6:10 (ESCI).

3. Varghese J, **Subash Saudia**, Hussain OB, Saady MR, Babu B, Riazuddin M. Image adaptive DCT-SVD based digital watermarking scheme by human visual characteristics. Journal of Engineering Research. **2015 Mar**;3:1-8 (SCIE).

4. Varghese J, Tairan N, Subash Saudia. Adaptive switching non-local filter for the restoration of salt and pepper impulse-corrupted digital images. Arabian Journal for Science and Engineering. **2015 Nov**;40:3233-46 (SCIE).

5. Varghese J, **Subash Saudia**, Hussain OB, Nallaperumal K, Saady MR, Khan MS. An improved digital image watermarking scheme using the discrete Fourier transform and singular value decomposition. Turkish Journal of Electrical Engineering and Computer Sciences. **2016**;24(5):3432-47 (SCIE).

6. Varghese J, **Subash Saudia**, Khan MS, Nallaperumal K, Babu B, Saadi MR. An efficient LOF-based long-range correlation filter for the restoration of salt and pepper impulse corrupted digital images. Turkish Journal of Electrical Engineering and Computer Sciences. **2016**;24(4):2429-41(SCIE).

7. Varghese J, **Subash Saudia**, Tairan N, Babu B. Laplacian-based frequency domain filter for the restoration of digital images corrupted by periodic noise. IEEE Canadian journal of Electrical and Computer Engineering. **2016 Apr** 21;39(2):82-91 (SCIE).

8. Lotus R, Varghese J, **Saudia S**. An approach to automatic reconstruction of apictorial hand torn paper document. Int. Arab J. Inf. Technol.. **2016 Jul** 1;13(4):457-61 (SCIE).

9. Varghese J, **Subash Saudia,** Tairan N. Fourier transform-based windowed adaptive switching minimum filter for reducing periodic noise from digital images. IET image processing. **2016 Sep**;10(9):646-56 (SCIE).

10. Varghese J, **Subash Saudia**, Sridhar KP, Balaji NV, Ashok Kumar G. Adaptive switching interpolation filter for restoring impulse corrupted digital images. IET Image Processing. **2020 Oct**;14(12):2869-78 (SCIE).

11. Varghese J, Hussain OB, Razak TA, **Subash Saudia**. A Hybrid Digital Image Watermarking Scheme Incorporating DWT, DFT, DCT and SVD Transformations. Journal of Engineering Research. **2022**;10(1A):113-30 (SCIE).

12. Varghese J, Hussain OB, **Subash Saudia**, Razak A. An effective digital image watermarking scheme incorporating DCT, DFT and SVD transformations. PeerJ Computer Science. **2023 July** 10;9:e1427 (SCIE).

13. Sweetlin EJ, **Saudia S**. Performance Analysis of a new Filter and Wrapper Sequence for the Survivability Prediction of Breast Cancer Patients. International journal of electrical and computer engineering systems. **2023 Jun 5**;14(5):547-55 (ESCI, Scopus).

14. Sweetlin EJ, **Saudia S**. A New Hybrid Feature Selection Sequence for Predicting Breast Cancer Survivability Using Clinical Datasets. Intelligent Automation & Soft Computing. **2023 Jul** 1;37(1) (SCIE).

15. Subha J, **Saudia S**. Integrating Regression Models and Climatological Data for Improved Precipitation Forecast in Southern India. International Journal of Advanced Computer Science and Applications. **2023**;14(5) (ESCI, Scopus).

16. Subha J, **Saudia S**. Precipitation forecast using RNN variants by analyzing Optimizers and Hyperparameters for Time-series based Climatological Data. International journal of electrical and computer engineering systems. **2024 Mar 19**;15(3):261-74 (ESCI, Scopus).

Book Chapters/ Conference publications:

1. Krishnan Nallaperumal, Justin Varghese, **S. Saudia** et al. "Iterative Adaptive Switching Median Filter", proc. of **IEEE** ICIEA **2006**, Singapore. pp: 1-6 DOI: 10.1109/ICIEA.2006.257367

2. Krishnan Nallaperumal, Justin Varghese, **S. Saudia** et al. "An efficient approach to Salt & Pepper Impulse Noise Reduction using Iterative Impulse Detection and Correction Phase", proc. of **IEEE** ADCOM 2006, NITK, Surathkal, pp : 576-579 DOI : 10.1109/ADCOM.**2006**.4289957

3. Krishnan Nallaperumal, Justin Varghese, **S. Saudia** et al. "Adaptive Rank-ordered Switching Median Filter for Salt & Pepper Impulse Noise Reduction", proc. of **IEEE** INDICON 2006, New Delhi. DOI: 10.1109/INDCON.**2006**.302825

4. Krishnan Nallaperumal, Justin Varghese, **S. Saudia** et al. "Selective Switching Median Filter for the Removal of Salt & Pepper Impulse Noise", proc. of **IEEE** WOCN 2006, Bangalore, India, April 2006. DOI:10.1109/WOCN.**2006**.1666676

5. Krishnan Nallaperumal, Justin Varghese, **S. Saudia** et al. "An Efficient Extension to Chain Codes for External Image Representation", proc. of **IEEE** WOCN 2006, Bangalore, India, April 2006. DOI: 10.1109/WOCN.**2006**.1666674

6. Krishnan Nallaperumal, Justin Varghese, **S. Saudia** et al. "Salt & Pepper Impulse Noise Removal using Adaptive Switching Median Filter", proc. of **IEEE** Oceans'06, Asia Pacific, Singapore, pp : 1-8 DOI : 10.1109/OCEANSAP.**2006**.4393943

7. Nallaperumal, K., Krishnaveni, K., Varghese, J., **Saudia**, et.al., Fuzzy optimal Thresholded multiscale morphological segmentation of digital images. IFIP **IEEE** International Conference on Wireless and Optical Communications Networks **2006** (pp. 5-pp).

8. Nallaperumal, K., Krishnaveni, K., Varghese, J., **Saudia, S.**, et.al., An efficient multiscale morphological watershed segmentation using gradient and marker extraction. Annual **IEEE** India Conference September, **2006**, (pp. 1-6).

9. Krishnan Nallaperumal, Justin Varghese, **S. Saudia** et al. "An efficient Switching Median Filter for Salt & Pepper Impulse Noise Reduction", proc. of **IEEE** ICDIM2006, Bangalore, pp : 161-166 DOI : 10.1109/ICDIM.**2007**.369347.

10. Justin Varghese**, S. Saudia** et al. "A Novel Adaptive Approach to the Restoration of Digital Images Corrupted by Salt & Pepper Impulse Noise" proc. of **IEEE** ICCIMA2008, MEPCO, Sivakasi, Vol: 3, pp: 447-452.   DOI :   10.1109/ICCIMA.**2007**.118

11. **S. Saudia**, Justin Varghese et. al. "Salt & Pepper Impulse Detection and Median based Regularization using Adaptive Median Filter ", **IEEE** Region 10 (Asia and Pacific) TENCON 2008, Hyderabad, **November 2008**. DOI: 10.1109/TENCON.2008.4766413

12. **S. Saudia**, Justin Varghese et. al. "An Adaptive Clustering based Non-Linear Filter for the Restoration of Impulse Corrupted Digital Images ", **IEEE** ICVGIP 2008, Bhuvaneshwar, **December 2008.** DOI: 10.1109/ICVGIP.2008.43

13. **S. Saudia**, Justin Varghese et. al. "Clustering based Impulse Detection and Rank-ordered Regularization for the Restoration of Impulse corrupted Digital Images ", **IEEE** ADCOM 2008, Chennai, **December 2008**. DOI: 10.1109/AD-COM.2008.4760478

14. **S. Saudia**, Justin Varghese et. al. "Quad-tree based Impulse Detection and Rank-ordered Regularization for the Restoration of Impulse corrupted Digital Images ", **IEEE** ICCCN 2008, Karur, **December 2008.** DOI: 10.1109/ICCCNET.**2008**.4787723

15. **S. Saudia**, Justin Varghese et. al. "An Efficient Quad-tree based Impulse Detection and Rank-ordered Regularization for the Restoration of Highly Impulse corrupted Images" **IEEE** IACC 2009, Thapar, Panjab, India, DOI: 10.1109/IADCC.**2009**.4809038

16. Justin Varghese, Mohamed Ghouse, Mohamed Samiulla Khan, Omer Bin Hussain, **S. Saudia**, and Ajmal Khan. "A new direction based adaptive filter for the restoration of impulse corrupted digital images." **IEEE** International Conference on Advanced Communication Control and Computing Technologies (ICACCCT), **2012**, pp. 254-258.

17. Justin Varghese, **S Saudia**, et,al., "An effective direction based filter for the restoration of images corrupted by random valued impulse noise", **IEEE** - World Congress on Information and Communication Technologies (WICT), 2012 Oct. 30 2012-**Nov. 2 2012**, 942 – 947, 978-1-4673-4806-5

18. Lotus, R., Justin Varghese, and **S. Saudia**. "On the pre-requisites for reconstruction of questioned a pictorial hand-torn digital documents." **IEEE** Conference on Information & Communication Technologies (ICT), **2013**.

19. Justin Varghese, **Saudia Subash**, et,al., "An efficient DCT-SVD based algorithm for digital image watermarking", **IEEE** - International Carnahan Conference on Security Technology (ICCST) **2014**, 1-6, Rome, 978-1-4799-3530-7

20. Sweetlin EJ, Saudia S. Exploratory data analysis on breast cancer dataset about survivability and recurrence. In2021 3rd **IEEE** International Conference on Signal Processing and Communication (ICPSC) **2021 May 13** (pp. 304-308).

21. Sweetlin EJ, **Saudia S**. A Review of Machine Learning Algorithms on Different Breast Cancer Datasets. In International Conference on Big Data, Machine Learning, and Applications **2021 Dec 19** (pp. 659-673). Singapore: **Springer** Nature Singapore.

22. Subha J, **Saudia S**. Robust Flood Prediction Approaches Using Exponential Smoothing and ARIMA Models. In International Conference on Sustainable and Innovative Solutions for Current Challenges in Engineering & Technology **2022 Nov 19** (pp. 457-470). Singapore: **Springer** Nature Singapore.

23. Subha J, **Saudia S**. An Exploratory Data Analysis on SDMR Dataset to Identify Flood-Prone Months in the Regional Meteorological Subdivisions. In Data Intelligence and Cognitive Informatics: Proceedings of ICDICI **2022 Dec 3** (pp. 595-617). Singapore: **Springer** Nature Singapore.

24. Kani DC, **Saudia S**. Analysis on the Performance of Machine Learning Models for Forest Fire Prediction. In 5th **IEEE** International Conference on Smart Systems and Inventive Technology (ICSSIT) **2023 Jan 23** (pp. 1-5).

25. Sweetlin EJ, **Saudia S**. Ensemble learning for the survivability prediction of breast cancer patients using METABRIC and SEER datasets. In2023 4th **IEEE** International Conference on Signal Processing and Communication (ICSPC) **2023 Mar 23** (pp. 16-21).

26. A.Krishnaveni, **Saudia S**. Quantitative Assessment on the Applications of Viola Jones based Face Recognition for Security and Monitoring Systems. 11th International Conference on Contemporary Engineering and Technology, Samarkand State University, Uzbekistan, Prince Shri Venkateshwara Padmavathy Engineering College, Chennai-27, Tamil Nadu, 1st and 2nd May **2023.**

27. A.Krishnaveni, **S.Saudia**. Machine Learning Models for Deception Detection: A Quantitative Performance Evaluation. 13th International Conference on Recent Challenges in Engineering and Technology (ICRCET-2024), St. Joseph's College of Engineering, Chennai, **2024**/9/27, ISBN 978-93-92105-98-2, pp.45

Resource Person/ Coordinator / Technical Committee Membership and other professional activities:

1. **Resource Person:** Certificate Course on Computer Fundamentals and Office Automation to the Administrative Staff of Manonmaniam Sundaranar University from 7th April 2006 to 28th April 2006.

2. **Resource Person:** One day Seminar 'DIP a Panacea.', organized by Malankara Catholic College, Kanyakumari, Tamil Nadu on 27th February 2008.

3. **Resource Person:** Workshop on Fuzzy Logic and Neural Networks. In the Infant Jesus College of Engineering on 14th July 2010.

4. **Session chair:** Fist International Conference on Computer Science, Engineering and Information Technology, September 23-25, 2011, Manonmaniam Sundaranar University, Tirunelveli.

5. **Session chair:** 2011 IEEE International Conference on Computational Intelligence and Computing Research, Cape Institute of Technology, Kanya Kumari, 15th to 18th December 2011.

6. **Organizing Committee Member:** Synergy 2013, 24th April 2013, King Khalid University, Kingdom of Saudi Arabia.

7. **Member of the Board of Studies:** Centre for Information Technology and Engineering, Manonmaniam Sundaranar University, Tirunelveli-12, from 1.08.2015 till date.

8. **Organizing Committee Member:** One Day Seminar on Bio-Medical Engineering Trends, 27th August 2015, Centre for Information Technology and Engineering, Manonmaniam Sundaranar University.

9. **Program Coordinator:** One day seminar on Big Data Analytics, Centre for Information Technology and Engineering, Manonmaniam Sundaranar University, Tirunelveli on 22nd January 2016.

10. **Resource Person**: Two days International Workshop on "Impulse Noise Reduction in Image using Matlab", Adaikalamatha College, Tanjore, Tamil Nadu, India, March 2016.

11. **Resource Person:** Two days International Workshop on "Image Restoration Techniques with Matlab", Jamal Mohamed College, Trichy, Tamil Nadu, INDIA, 2-3 September 2016.

12. **Technical Program Committee Member:** IEEE International Conference on Anti-Cyber Crimes (ICACC), King Khalid University, Abha, KSA, 26-27 March 2017.

13. **Program Coordinator:** Technical Symposium SOFTCRAFT-18, Centre for Information Technology and Engineering, Manonmaniam Sundaranar University, Tirunelveli-12, Tamil Nadu, India, 13th March 2017 and 6th March 2018.

14. **Organizing Committee Member:** Two days workshop on Cyber Space and its Career Path, Centre for Information Technology and Engineering, Manonmaniam Sundaranar University, Tirunelveli-12, Tamil Nadu, India from 12th to 13th October 2018.

15. **Observer:** Pre-Ph.D. presentation/ Viva-Voce in Manonmaniam Sundaranar University, Tirunelveli-12, Tamil Nadu, India during 2018, 2019, 2021

16. **Resource Person:** Two weeks Rejuvenation Crash Course for UGC NET/ JRF-2019, Centre for Information Technology and Engineering, Manonmaniam Sundaranar University, Tirunelveli-12, Tamil Nadu, India from 6th to 19th May 2019.

17. **Technical Committee Member (Review of Papers):** International Conference on Adaptive Computational Intelligence-ICACI 2019, organized by GSSS Institute of Technology and Engineering for Women, Karnataka, 18th and 19th July 2019.

18. **Member, Interview Board:** Ph.D. Admissions in the discipline of Information Technology, Manonmaniam Sundaranar University, Tirunelveli-12, Tamil Nadu, India, July 2019.

19. **Organizing Committee Member:** 17th Regional Workshop on Science Writing/ Journalism organized by M.T.S Academy, Nehru Yuva Kendra, Ministry of Youth

Affairs and Spots, Tamil Nadu State Council for Science and Technology and Manonmaniam Sundaranar University on 12th February to 13th February 2019.

20. **Programme Coordinator:** 2 days Workshop on Hadoop Fundamentals for Data Analytics, organized by Centre for Information Technology and Engineering, Manonmaniam Sundaranar University, Tirunelveli-12, Tamil Nadu, India on 09th & 10th January 2019.

21. **Doctoral Committee member**: Ph.D. students, R.Saranya, A.Kavitha, V.S.Jeyalakshmi and Chockalingam of Manonmaniam Sundaranar University, Tirunelveli-12, Tamil Nadu, India in the years from January 2018.

22. **Programme Coordinator:** 2 days Workshop on Hive for Data Analytics, organized by Centre for Information Technology and Engineering, Manonmaniam Sundaranar University, Tirunelveli-12, Tamil Nadu, India on 30th & 31st August 2019.

23. **Programme Coordinator:** One day Seminar on Foundation Skills for Prospective IT Technocrats, organized by Centre for Information Technology and Engineering, Manonmaniam Sundaranar University, Tirunelveli-12, Tamil Nadu, India on 13th September 2019.

24. **Organizing Committee Member:** Two days Internship Programme on 'Enhancing Teaching Learning Process in Higher Education using ICT tools', organized by Centre for Information Technology and Engineering, Manonmaniam Sundaranar University, Tirunelveli, Tamil Nadu, India and sponsored by PMMMNMTT, MHRD, Government of India on 12th and 13th March 2020.

25. **Organizing Committee Member:** One Week FDP on Online Medium through online platform by Manonmaniam Sundaranar University, Tirunelveli-12, Tamil Nadu, India and from 09th to 15th July 2020.

26. **Co-ordinator-** One week FDP on Digital Learning and Teaching based on Four Quadrant Strategy conducted through online platform by Manonmaniam Sundaranar University, Tirunelveli-12, Tamil Nadu, India from 22nd to 28th July 2020.

27. **Programme Coordinator:** Two days Workshop on Pyspark for Data Analytics organized by Centre for Information Technology and Engineering, Manonmaniam Sundaranar University, Tirunelveli-12, Tamil Nadu, India from 16th to 17th March 2022.

28. **Organizing Committee Member:** Technical Symposium SOFTCRAFT-18, Centre for Information Technology and Engineering, Manonmaniam Sundaranar University, Tirunelveli-12, India, 1st April 2022.

29. **Jury:** ZooFest 2k24- An Intercollegiate Students Talent Festival organized by the Department of Animal Science, Manonmaniam Sundaranar University, Tirunelveli-12, Tamil Nadu, India on 19th March 2024.

30. **Resource Person:** A Seminar- 'ON YOUR MARKS AND GET SET FOR A GO' for UG Students in the Santhinagar Campus of Manonmaniam Sundaranar University, Tirunelveli on 13th March 2024.

31. **Organizing Committee Member:** One day Seminar on 'Block Chain Unveiled: Exploring the Fundamentals, Features and its Applications', organized by Centre for Information Technology and Engineering, Manonmaniam Sundaranar University, Tirunelveli-12, Tamil Nadu, India on 09th February 2024.

32. **Organizing Committee Member:** Hands on training on 'Web Apps Development' organized by Centre for Information Technology and Engineering, Manonmaniam Sundaranar University, Tirunelveli-12, Tamil Nadu, India on 12th February 2024.

33. **Technical Reviewer:** 2nd IEEE and ACM Collaborative International Conference on Emerging Trends in Information Technology and Engineering, ic-ETITE '24, Organized by School of Computer Science Engineering and Information Systems, Vellore Institute of Technology, Vellore-14, Tamil Nadu, India, 22nd & 23rd February 2024.

34. **Mentor:** NPTEL Online Certification Course -**The Joy of Computing using Python** (Jan-Apr 2024) and **Advanced R Programming for Data Analytics in Business** (July-Nov 2024) for students of M.Sc. Data Analytics.

35. **Subject Expert-**To frame the list of Infrastructural and academic requirements for the Diploma Programmes in Information Technology, Computer Hardware & Network Maintenance offered from the Directorate of Vocational Education, Manonmaniam Sundaranar University, Tirunelveli-12 (Order dated 5th March 2024).

36. **Chief Guest and Session Chair:** National Level Technical Symposium-FORZA 2k24, Annai Vailankanni College of Engineering, Kanyakumari District-629401, Tamil Nadu, India on 13th November 2024.

37. **Programme Coordinator:** One day Workshop on Hadoop Tools for Big Data organized by Centre for Information Technology and Engineering, Manonmaniam Sundaranar University, Tirunelveli-12, Tamil Nadu, India on 17th December 2024.

International/National Conferences, Research oriented/ Faculty Development Programmes/ Seminars/ Workshops Attended:

1. IEEE International Conference on Digital Information Management, **ICDIM, 2006**, Christ College, Bangalore.

2. Seminar on **Grid Computing with Mathematica** organized by Sierra Atlanta and Centre for Information Technology and Engineering, Manonmaniam Sundaranar University on 8th January 2007.

3. Five days Workshop on **Image Processing with IDL** Programming organized by Sierra Atlanta and Centre for Information Technology and Engineering, Manonmaniam Sundaranar University from 21st November to 25th November 2007.

4. International Conference on Emerging Trends in Engineering & Technology (**ICETET 2008**), Nagpur, India.

5. UGC Sponsored **Orientation Programme** from 7th December 2010 to 3rd January 2011, Academic Staff College, University of Kerala, Trivandrum, Kerala.

6. National **Conference on Recent Trends in Statistics and Computer Applications**, Department of Statistics, Manonmaniam Sundaranar University, Tirunelveli-12, March 25-26, 2011.

7. UGC Sponsored **Refresher Course** conducted by Academic Staff College, University of Kozhikode, Kerala. From 8th March 2012 to 28th March 2012.

8. IEEE International Conference on Advanced Communication, Control and Computing Technologies, **ICCACCCT 2012**, Syed Ammal Engineering College, Ramanathapuram, India on 23rd and 25th August 2012.

9. International **Conference on Innovation in Research and Pedogogy**, Holy Cross College, Nagercoil, Tamil Nadu, India, 3-4 March 2017.

10. Seminar on **High Impact Teaching Skills** (HITS), organized by IQAC, Manonmaniam Sundaranar University, Tirunelveli-12, 19th July 2017.

11. Short term Course on **Faculty Empowerment Programme** on Student Success organized by the Department of Education, Manonmaniam Sundaranar University from 18th to 24th January 2018.

12. Seminar on Quality Research and Publications organized by Centre for Research, Manonmaniam Sundaranar University, Tirunelveli-12, 7th December 2018.

13. **Course on Introduction to Big Data** offered by **Microsoft Corporation** through Edx from 30th November2018 to 9th January 2019.

14. **Self-paced training programme** on 'Introduction to Artificial Intelligence' offered by the online MOOC platform Simplilearn based in Plano, Texas, USA. Certificate issued on 24th May 2019.
https://lms.simplilearn.com/courses/3667/Introduction-to-Artificial-Intelligence/syllabus
https://lms.simplilearn.com/courses/3667/Introduction-to-Artificial-Intelligence/certificate/download-certificate

15. **Self-paced training programme** on 'Introduction to Artificial Intelligence' offered by the online MOOC platform Simplilearn based in Plano, Texas, USA. Certificate issued on 09th August 2020.
https://lms.simplilearn.com/courses/2789/Machine-Learning/syllabus
https://lms.simplilearn.com/courses/2789/Machine-Learning/certificate/download-certificate

16. **Internship Programme on 'Stay Safe at Cyberspace – Cyber Security Empowerment for Teachers Community',** organized by Centre for Information Technology and Engineering, Manonmaniam Sundaranar University sponsored by PMMMNMTT, MHRD, Government of India on 28th February 2020.

17. **Training programme** on '**E-content development**' using four quadrant strategy conducted by Manonmaniam Sundaranar University from 09th to 12th July 2020.

18. **Five Days AICTE Online Training and Learning (ATAL) Academy FDP** on 'Recent Trends on Cyber Security Domain' organized by Centre for Information Technology and Engineering, Manonmaniam Sundaranar University from 05th to 09th July 2021.

19. 2nd **International Conference** on Big Data, Machine Learning and Applications organized by Department of Computer Science and Engineering, National Institute of Technology, Silchar, India from 19th to 20th December 2021.

20. **International Course** (online) on Research Ethics in Higher Education organized by Internal Quality Assurance Cell (IQAC), Rani Anna Government College for Women, Tirunelveli from 14th to 17th February 2022.

21. **Two days Workshop** on 'IOT and Its Applications', organized by Centre for Information Technology and Engineering, Manonmaniam Sundaranar University, Tirunelveli, Tamil Nadu from 29th to 30th March 2022.

22. **Three day Workshop** on Learning Management System organized by Centre for Online Education, Manonmaniam Sundaranar University, from 7th to 9th April 2022.

23. **3rd International Conference** on Data Intelligence and Cognitive Informatics (ICDICI 2022) organized by SCAD College of Engineering and Technology, Tirunelveli, Tamil Nadu, India on 6th and 7th July 2022.

24. **4th International Conference on Sustainable and** Innovative Solutions for Current Challenges in Engineering and Technology (ICSISCET 2022, organized by Madhav Institute of Technology and Science, Gwalior, India on 19th and 20th 2022.

25. **International Conference** on Mathematical Sciences, Modeling and Computational Intelligence (ICMSMCI-2022) organized by Department of Mathematics, School of Foundational Sciences, Kumaraguru College of

Technology, Coimbatore and Department of Statistics, Bharathiar University, during 29th and 30th September 2022.

26. **NPTEL-AICTE FDP** on Machine Learning for Soil and Crop Management (12 weeks) from Jan-April 2023 (95%).

27. **5th International Conference** on Smart Systems and Inventive Technology (ICSSIT 2023) organized by Francis Xavier Engineering College, Tirunelveli, Tamil Nadu, 23rd to 25th January 2023.

28. **One day Workshop** on 'Intellectual Property Rights', organized by Internal Quality Assurance Cell (IQAC), Manonmaniam Sundaranar University, Tirunelveli, 15th February 2023.

29. **One-day Training** on 'Preparation of Revised Bloom's Taxonomy- based Internal and Semester Exam Question Papers', organized by Internal Quality Assurance Cell (IQAC), Manonmaniam Sundaranar University, Tirunelveli-12, India on 24th January 2023.

30. **11th International Conference** on Contemporary Engineering and Technology 2023, organized by Samarkand State University, Uzbekistan and Prince Shri Venkateshwara College of Engineering and Technology, Chennai, 1st & 2nd May 2023.

31. **NPTEL-AICTE FDP** on The Joy of Computing Using Python (12 weeks) from Jan-April 2024 (80%).

32. **13th International Conference** on Recent Challenges in Engineering and Technology (ICRCET 2024), organized by St. Joseph's College of Engineering, Chennai, 27th & 28th September 2024.

33. One Day Programme on **Right to Information Act, its latest development and role of public Information Officers of the Educational Institutions for the Teaching and Administrative Staff of the University** organized by the Internal Quality Assurance Cell, Manonmaniam Sundaranar University, Abishekapatti, Tirunelveli on 28th June 2024.

Courses Taught in UG & PG Levels:

Computer Vision	Parallel Processing
Image Processing	Microprocessor
Computer Graphics	Algorithms and Data Structures
Engineering Graphics	Decision Support Systems
Computer Architecture	Artificial Neural Networks
Fuzzy Logic and Engineering Applications	Computing for Data Analytics
Big Data Analytics	Machine Learning

Deep Learning	Applied Statistics
Descriptive Statistics	

Curriculum Development:

- As Member, Board of Studies, Information Technology, Manonmaniam Sundaranar University, Tirunelveli-12 involved in the Development of Syllabus of M.Sc. IT and M.Sc. Data Analytics programs offered by Centre for Information Technology and Engineering from 2015.

Research Guidance:

- Ph.D.: Completed-01, Submitted-01, Pursuing-02
- M.Tech.: over 25
- M.Sc.: over 25
- M.Phil: over 10

I do hereby declare that the information furnished above is true and is to the best of my knowledge.

Date: 18.12.2024   Dr.S.SAUDIA