Dr. A. Senthilselvi, M.Tech., Ph.D.,

Professor,

Department of CSE, CET, SRMIST,

Ramapuram Campus, Chennai.

Mail id: senthila3@srmist.edu.in

Dr. A. Senthilselvi is working as an Professor in the Department of CSE at SRMIST, Ramapuram campus. She holds a Ph. D degree in the field of Image Processing from Anna University, Chennai since 2019. She has 18 years of teaching experience with good programming skills. She is a recognized supervisor under SRMIST and guiding 6 scholars at present. She is certified in various courses from Coursera and NPTEL. She has published articles in National and International Journals, Conferences and Symposiums.

Area of Research:

Image Processing, Machine Learning and Deep Learning

RESEARCH INFORMATION

SCOPUS ID	57209006205
RESEARCHER ID	AAY-1907-2020
ORCID ID	0000-0002-0280-9773
ORCID LINK	https://orcid.org/0000-0002-0280-9773
GOOGLE SCHOLAR LINK	https://scholar.google.com/citations?user=DSN4V04AAAAJ
SCOPUS LINK	https://www.scopus.com/authid/detail.uri?authorId=57209006205
PUBLONS LINK	https://www.webofscience.com/wos/author/record/2088349

SELECTED JOURNAL PUBLICATION

1. Published a paper in the International journal of imaging system and technologies titled, “An efficient skin cancer detection and classification using improved Adaboost Aphid-Ant Mutualism model”.**(Publisher: Wiley, Impact Factor: 3.3).**
2. Published a paper in Journal of Circuits, Systems and Computers titled, “An Optimal Partitioning and FloorPlanning for VLSI Circuit Design based on a Hybrid Bio-inspired Whale Optimization and Adaptive Bird Swarm Optimization (WO-ABSO) Algorithm. https://doi.org/10.1142/S0218126623502730 **(Publisher: World Scientific, Impact Factor: 1.5).**

3. Published a paper in Multimedia tools and Application titled "Smart credit card fraud detection system based on dilated convolutional neural network with sampling technique ", https://doi.org/10.1007/s11042-023-15730-1 **(Publisher: Springer, Impact Factor: 3.6).**

4. Published a paper in Emerging Telecommunication Technologies titled "Hybrid dingo and whale optimization algorithm-based optimal load balancing for cloud computing environment ", https://doi.org/10.1002/ett.4760 **(Publisher:Wiley, Impact Factor: 3.6).**

5. Published a paper in Multimedia tools and Application titled "An integration of deep learning model with Navo Minority Over-Sampling Technique to detect the frauds in credit cards ", DOI 10.1007/s11042-023-14365-6 **(Publisher: Springer, Impact Factor: 3.6).**

6. Published a paper in Environment, Development and Sustainability titled "Analysis of demand forecasting of agriculture using machine learning algorithm ", https://doi.org/10.1007/s10668-022-02783-9 **(Publisher: Springer, Impact Factor: 4.9).**

7. Published a paper in Ecological Modeling titled "Rice plant disease classification using dilated convolutional neural network with global average pooling", https://doi.org/10.1016/j.ecolmodel.2022.110166 **(Publisher: Elsevier, Impact Factor: 3.1).**

8. Published a paper in Concurrency and Computation: Practice and Experience titled "An optimal self adaptive deep neural network and spine-kernelled chirplet transform for image registration ", DOI: 10.1002/cpe.7297, Volume34, Issue 27, 2022 **(Publisher: Wiley, Impact Factor: 2).**

9. Published a paper in Arabian journal for Science and Engineering titled "An optimal Faster Region-based Convolutional Neural Network for oil adulteration Detection",https://doi.org/10.1007/s13369-022-07115-7, Volume 474, 2022 **(Publisher: Springer, Impact Factor: 2.9).**

10. Published a paper in Circuits, Systems, and Signal Processing titled "Design and Analysis of Linear Phase Finite Impulse Response Filter Using Water Strider Optimization Algorithm in FPGA ", https://doi.org/10.1007/s00034-022-02034-2, Volume 41, Issue 9, Page 5254-5282, 2022. **(Publisher: Springer, Impact Factor: 2.3).**

11. Published a paper in Neural Computing and Applications titled "Identification of oil authenticity and adulteration using deep long short-term memory-based neural network with seagull optimization Algorithm ", https://doi.org/10.1007/s00521-021-06829-3, Volume 34 Issue 10, Page 7611-7625, 2022 **(Publisher: Springer, Impact Factor: 6).**

12. Published a paper in Applied Nanoscience titled "Multi-objective approach for protection of microgrids using surrogate assisted particle swarm optimization (SAPSO)",

https://doi.org/10.1007/s13204-021-02044-7,2021 **(Publisher: Springer, Impact Factor: 3.8).**

13. Published a paper in Journal of Ambient Intelligence and Humanized Computing , titled "Performance Evaluation of Adaptive Neuro Fuzzy System (ANFIS) over Fuzzy Inference System (FIS) with Optimization Algorithm in De-noising of Images from salt and pepper noise", https://doi.org/10.1007/s12652-021-03024-z,2021 **(Publisher: Springer, Impact Factor:3.6).**

14. Published a paper in Journal of Environmental Technology and Innovation, titled "Accuracy enhancement in mobile phone recycling process using machine learning technique and MEPH process ", Volume 20, November 2020 **(Publisher: Elsevier, Impact Factor:7.1).**

15. Published a paper in Multimedia Tools and Application titled "De-noising of images from salt and pepper noise using Hybrid Filter, Fuzzy Logic Noise Detector and Genetic Optimization Algorithm (HFGOA)", Volume 78, Issue 14, July 2019, https://doi.org/10.1007/s11042-019-7727-9. **(Publisher: Springer, Impact Factor: 3.6).**

16. Published a paper in Journal of Medical Systems titled "Brain Tumor Segmentation Using Convolutional Neural Networks in MRI Images", Volume 43, Issue 9, July 2019, https://doi.org/10.1007/s10916-019-1416-0. **(Publisher: Springer, Impact Factor: 5.3).**

17. Published a paper in Concurrency and Computation Practice and Experience titled "Removal of salt and pepper noise from images using hybrid filter (HF) and fuzzy logic noise detector (FLND)".DOI: 10.1002/cpe.4501, April 2018 **(Publisher: Wiley, Impact Factor: 2).**

BOOK PUBLICATION

1. Published a book in the title, "Artificial Intelligence", Forchung Publications, **ISBN : 978-93-87865-40-2**, 2020
2. Published a book in the title "Machine Learning", Shanlax Publications, **ISBN : 978-93-91373-85-6**, 2021.
3. Published a book in the title "Deep Learning with Data Science", Shanlax Publications, **ISBN : 978-93-95422-60-4**, 2022.

PATENT

S.No	Patent file No	Title of Patent	Role	Date of filing	Date of Publication
1	201941054497	Computer Implemented Method of Image Classification with Extreme Learning Machine	Inventor	30.12.2019	03.01.2020
2	202241028175	Accident Detection System (ADS) using G-Force	Inventor	17.05.2022	17.06.2022
3	202241047135	Closed/ MOODU - Automatic Temporary Infrastructure in Real-Time Automatic Artificial Intelligence (MOODU-TIRAI)	Inventor	18.08.2022	26.08.2022
4	202341034557	Intelligent healthcare monitoring system for physically challenged people	Inventor	17.05.2023	26.05.23
5	202341049876	Underwater pollution monitoring using autonomous vehicles to balance the ecosystem	Inventor	24.07.2023	14.08.23