

Dr. Tamilselvi M

Assistant Professor

Department of ECE, SRMIST

Ramapuram Campus, Chennai

Mail : tamilsem2@srmist.edu.in



Scopus Id

<https://www.scopus.com/authid/detail.uri?authorId=56878915200>

Dr. Tamilselvi.M Working as an Assistant Professor in the Department of ECE at SRMIST, Ramapuram. She has completed her UG in Electronics and Communication Engineering in the year 2005 from C. Abdul Hakeem College of Engineering and Technology, Vellore (affiliated to Anna University) and PG in Mtech VLSI Design in the year 2012 from Sathyabama University, Chennai. She has completed her Ph.D in the year 2022 from the Sathyabama University, Chennai in the domain of Image Processing. She served in this teaching profession for more than 15 years. She has presented many numbers of papers in National and International Journals, Conference and Symposiums.

Area of Research : Image processing, Machine Learning, Artificial Intelligence, VLSI design.

Selected Publications:

Web of Science/SCI

Tamilselvi.M et al. (2023) "Enhanced machine learning for nanomaterial identification of photo thermal hydrogen production" International Journal of Hydrogen Energy, <https://doi.org/10.1016/j.ijhydene.2023.07.128> (SCIE)

Tamilselvi.M et.al (2023) "Dual port dual drive/LiNb MZM measured modulators based light transmitter sources for ultra-long haul optical wireless systems" Journal of Optical Communications, 2023. <https://doi.org/10.1515/joc-2023-0171> (Scopus)

Tamilselvi. M et al. (2022). "An ingenious face recognition system based on HRPSM_CNN under unrestrained environmental condition" Alexandria Engineering Journal, Volume 61, Issue 6, June 2022, pages 4307-4321 (SCIE).

Tamilselvi. M et al. (2022). "A Novel Deep Learning-Based Black Fungus Disease Identification Using Modified Hybrid Learning Methodology" Contrast Media & Molecular Imaging Volume 2022, Article ID 4352730, 11 Pages, 2022 <https://doi.org/10.1155/2022/4352730> (SCIE)

M. Tamilselvi. et al. (2021). "An Unconventional Approach for Analyzing the Mechanical Properties of Natural Fiber Composite Using Convolutional Neural Network" Advances in

Materials Science and Engineering vol. 2021, Article ID 5450935, 15 pages, 2021. <https://doi.org/10.1155/2021/5450935> (SCIE)

Tamilselvi M. & Karthikeyan, S. (2021). "Hybrid Framework for a Robust Face Recognition System Using EVB_CNN" Journal of Cases on Information Technology (JCIT), 23(3), 43-57. <http://doi.org/10.4018/JCIT.20210701.oa4> (Scopus)

M.Tamilselvi et.al (2021), "Smart Autonomous Car Parking for the Modern Vehicles" Journal of Physics: conference series, J. Phys.: Conf. Ser.1964 042070, doi:10.1088/1742-6596/1964/4/042070 (Scopus)

M.Tamilselvi et.al (2021) "Synthesis of Images from SMRI through Extreme Integrand Unstable Learning" Journal of Physics: conference series doi:10.1088/1742-6596/1964/6/062107 (Scopus)

M.Tamilselvi et al. (2021) "Face Recognition Based on Spatio Angular Using Visual Geometric Group-19 Convolutional Neural Network" Annals of the Romanian Society for Cell Biology, Vol 25, Issue 3, 2131 - 2138. (Scopus)

M.Tamilselvi et.al (2021) "A Stable Architecture for IoT-Enabled Medical System Software-Defined Edge Computing", Renewable Energy with IoT and Biomedical Applications.

M. Tamilselvi and S. Karthikeyan, "A Face Recognition system using Directional Binary Code Algorithm and Multi SVM" 2019 International Journal of Engineering and Advanced Technology, Volume-8, Issue-6S3, September 2019. ISSN - 2249 – 8958. (Scopus)

Tamilselvi, M., & Karthikeyan, S. (2018). "A literature survey in face recognition techniques" International Journal of Pure and Applied Mathematics, 118(16), 831-849. (UGC Approved Journal)

M. Tamilselvi and G. Ramkumar (2015). "An Effectual Contrast Enhancement for Remote Sensing Images" International Journal of Applied Engineering Research ISSN 0973-4562 Vol 10 No. 20 (Scopus)

M. Tamilselvi and G. Ramkumar (2015). "A Novel Based Mix-Column Architecture For Aes-128 Bit Algorithm" International Journal of Applied Engineering Research ISSN 0973-4562 Vol 10 No. 20 (Scopus)

IEEE Conference Publications

M. Tamilselvi. Et.al (2023) "A Real-time Fire recognition technique using a Improved Convolutional Neural Network Method," 2023 Eighth International Conference on Science Technology Engineering and Mathematics (ICONSTEM), Chennai, India, 2023, pp. 1-8, doi: 10.1109/ICONSTEM56934.2023.10142663.

B. Manimaran, M. Tamilselvi and S. ChanuInunganbi, "Wireless mobile charging for smart electrical bus," 2023 Eighth International Conference on Science Technology Engineering and Mathematics (ICONSTEM), Chennai, India, 2023, pp. 1-6, doi: 10.1109/ICONSTEM56934.2023.10142932.

M. Tamilselvi et.al (2022) , "An Effective Copyright Management Principle using Intelligent Wavelet Transformation based Water marking Scheme," 2022 International

Conference on Advances in Computing, Communication and Applied Informatics (ACCAI), 2022, pp. 1-7, doi: 10.1109/ACCAI53970.2022.9752516. (Scopus Indexed)

M. Tamilselvi et.al (2022) , "A Novel Data Communication with Security Enhancement using Threat Management Scheme over Wireless Mobile Networks," 2022 International Conference on Advances in Computing, Communication and Applied Informatics (ACCAI), 2022, pp. 1-6, doi: 10.1109/ACCAI53970.2022.9752584 (Scopus Indexed)

M. Tamilselvi et.al(2022) "An Artificial Intelligence enabled Smart Industrial Automation System based on Internet of Things Assistance," 2022 International Conference on Advances in Computing, Communication and Applied Informatics (ACCAI), 2022, pp. 1-6, doi: 10.1109/ACCAI53970.2022.9752651 (Scopus Indexed)

M. Tamilselvi et.al (2022), "A Novel Text Recognition Scheme using Classification Assisted Digital Image Processing Strategy," 2022 International Conference on Advances in Computing, Communication and Applied Informatics (ACCAI), 2022, pp. 1-6, doi: 10.1109/ACCAI53970.2022.9752542. (Scopus Indexed)

M. Tamilselvi et.al (2022) "Comparison and analysis of Rice Blast disease identification in Greenhouse Controlled Environment and Field Environment using ML Algorithms," 2022 International Conference on Advances in Computing, Communication and Applied Informatics (ACCAI), 2022, pp. 1-5, doi: 10.1109/ACCAI53970.2022.9752538. (Scopus Indexed)

K. Venusamy and M. Tamilselvi, "Impact of NEMS Technology over the growth of IoT -A Analysis study," 2020 4th International Conference on Electronics, Communication and Aerospace Technology (ICECA), 2020, pp. 193-198, doi: 10.1109/ICECA49313.2020.9297582. (Scopus Indexed)

M. Tamilselvi and S. Karthikeyan, "Feature Extraction and Facial Expression Recognition using Support Vector Machine," 2019 International Conference on Smart Systems and Inventive Technology (ICSSIT), 2019, pp. 889-893, doi: 10.1109/ICSSIT46314.2019.8987919. (Scopus Indexed)

M. Tamilselvi and G. Ramkumar (2015). "Non Invasive Tracking And Monitoring Glucose Content Using Near Infrared Spectroscopy" IEEE International Conference on Computational Intelligence & Computing Research in VickramCollege of Engineering, Madurai (Scopus Indexed).

Patents Published:

202341028666A – ELK Stack for IoT driven smart buildings: Effective Surveillance and Monitoring

202041035424 A - Embedded Real Time Finger Vein Detection Based Advanced Security System - 04.09.2020

202041036218A - Artificial Intelligence in Modern Large Power System Applications - 04.09.2020

202141012116A - Flex Sensor Based Medical Alert Device for Seriously Ill Patients in Hospital - 02.04.2021

202141057953 A - IOT and Cloud based intelligent voice activated home automation - 04.02.2022

202041017380 A - Automated Hygiene Fluid Dispensing Device - 05.06.2020

Books/Book Chapters Published:

- “HCI: Designing a Smart Tool for Analyzing Human Brain Signals and Operating Smart Home Devices” - AAP – Apple Academic Press - ISBN: 9781774911853
- “Internet of Things Enabled Energy Efficient Flying Robots for Agricultural Field Monitoring Using Smart Sensors” – AAP – Apple Academic Press - ISBN: 9781774911853.
- “Robotics” - Technical Research Publications ISBN:978-93-5419-211-1(online)

Professional Bodies:

Member – IAENG

Google Scholar Id

[Dr. M Tamil Selvi - Google Scholar](#)

Orcid Id

<https://orcid.org/0000-0003-4781-9083>

Web of Science Researcher ID : AAE-9988-2019

Research Gate : <https://www.researchgate.net/profile/M-Tamilselvi>