

Dr. K. Malathi Profile



Dr. K. MALATHI, M.E., Ph.D.
Associate Professor – AIML -SEC

HIGHLIGHTS:

Scopus:

- Number of Journal Publications: 9
- H-Index:4
- Citation: 102

Google Scholar:

- Number of Journal Publications: 11
- H-Index:3
- i-10 Index: 3
- Citation: 52

ResearchGate:

- Research Interest Score: 63.3
- H-index - 2
- Citations: 91

Patents:

- Patents Published: 4
- Patents Granted: 1

PROFESSIONAL LINKS:

Online Profile	
ORCID:	https://orcid.org/0000-0002-4040-1832
Scopus	https://www.scopus.com/authid/detail.uri?authorId=57216388293
Google Scholar:	https://scholar.google.com/citations?user=9_rS-34AAAAJ&hl=en
LinkedIn	www.linkedin.com/in/dr-malathi-k-5351b7224
ResearchGate:	https://www.researchgate.net/profile/Malathi-k-2/publications
AICTE Faculty ID:	2122678
Anna University Faculty ID:	280621
Google Scholar:	https://scholar.google.com/citations?user=9_rS-34AAAAJ&hl=en
Vidwan	https://vidwan.inflibnet.ac.in/profile/439163
Publons:	https://www.webofscience.com/wos/author/record/IYJ-3550-2023
SSRN:	https://hq.ssrn.com/submissions/MyPapers.cfm?partid=6873722&redirectFrom=true
Yukti	https://yukti.mic.gov.in/team-lead/innovation-repository IIIC ID : IC201811221
Academia:	https://www.academia.edu/?from_navbar=true&trigger=nav

PROFESSIONAL BACKGROUND:

- Teaching Experience till date: 12 years
- Full time Ph.D. : 3.5 years

INTERNATIONAL EXPOSURE:

- GIIS-Intermediate College -IGCSE -KL - STEM (Science Technology Engineering and Mathematics) Teaching Faculty

AREA OF SPECIALIZATION:

- Cloud Computing
- IOT – Internet of Things
- Artificial Intelligence
- Machine Learning
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PATENTS PUBLISHED/GRANTED:

● Application Number: Design Patent 202241042943 -Title: Hybrid Lion -GA Optimization Algorithm using Python for Effective Task Scheduling, CBR NUMBER: 29870, Date of filing of Application: 27/07/2022, Published Date: 05/08/2022;

● Application Number: 202441048275 A - Title: Malaria Infected Red Blood Cells Using Image Processing and Machine Learning ,Date of filing of Application:24/06/2024, Published Date: 05/07/2024

● Application Number: 202441058297 - Title: Wearable IoT Device for Road User Safety with Machine Learning-Based Gesture Recognition. Date of filing of Application: 01/08/2024, Published Date: 09-08-2024

● Application Number: Design Patent 426236-001 - Title: AI based device for predicting maintenance of industrial machine ,Date of filing of Application: 08/08/2024, Published Date: 22/10/2024

● Application Number: 202441077836 - Title: Blockchain based medical data storage device for secure and tamper proof health information management, Date of filing of Application: 14/10/2024, Published Date 25/10/2024

COURSES CERTIFIED:

- **Edunet Foundation** - Next Gen 3.0 FDP - Building Web Development Solutions with Cloud Computing 11-11-2024 to 15-11-2024
- **NPTEL** course certificate on Google cloud Computing Foundations -Nov 2024
- **UDEMY** -Python complete course and Flask Framework ,HTML Essentials – 3-11-2024
- **IETE** – MC 21 Days Masterclass on STM32 - Nucleo 64 – 9-09-2024 TO 29-09-2024
- **Coursera** - AWS Cloud Solutions Architect -Professional Certificate 29-09-2024
- **Coursera** Building Data Lakes on AWS -22-09-2024
- **Udemy** Python Data Analytics Real world hands on Projects 28-09-2024
- **Coursera** Architecting Solutions on AWS -1-09-2024
- **Infosys Spring Board** -Getting Started with Power BI services -18-08-2024
- **Coursera**: AWS 204 Technical essentials – August 2024
- **Coursera**: AWS – Cloud Practitioner essentials 2024 – August 2024
- **NPTEL** course certificate on Introduction to Industry 4.0 and Industrial Internet of things -April 2024
- **INFOSYS SPRING BOARD** course certificate on Basics of Python, 08-Jan-2024
- **NPTEL** course certificate on Fundamentals of Artificial Intelligence -October 2023
- **NPTEL** course certificate on Cloud Computing - October 2023
- Completed - Master class on Deep learning – Oct 2023 – **Pantech e learning**
- Completion Certificate - Awarded for the **KONMA FLAIR -TTT** -TRAIN THE TRAINER Program covering the Fundamentals, use cases and impact of Blockchain ,7-11-2022
- TTT program on Block Chain Technologies - **Konma** on 19-12-22

ACHIEVEMENTS AND AWARDS:

- **Easy chair – Conference Reviewer - International Conference on Innovation, Sustainability and Applied Sciences (ICISAS 2025) SRMIST , Kattankulathur**
- **Chief Guest and Judge** - Regional level Science Exhibition - Central Board of Secondary Education -Nov 2024
- ATAL FDP NOV 2024 -SEC - **Session Chair** – Journal Discussion
- **Excellence in peer reviewing** Certificate – September, November
- IGI Global **Book Reviewer**
- **Microsoft CMT Conference Reviewer – ICSTSN2024, ICSTSDG2024 , ICSTSN2025**
- **Journal Reviewer** REVIEWS ON RECENT CLINICAL TRIALS.
- Conference ICANS '24 DST -SERB Sponsored – **Technical Team**
- **Best Faculty Award** - JJ College of Engineering and Technology -2006

SPECIAL SESSIONS DELIVERED:

- Organized Student Debate : How to be Cyber Smart? 29-October-2022 , 10 A.M to 12.35 P.M
Resource Person : Mr.Dharani Kumar,Technical Lead , Cybersecurity Team,ICU Medical Venue: S-13 Seminar Hall ,KCG,Chennai
- Resource Person - Workshop Title : No Code only Scratch ,05-January-2023, 1 P.M to 3 P.M , Charles Babbage Lab ,KCG,Chennai
- Organized Webinar Title: CYBERSECURITY -PRIORITY IN HEALTHCARE SECURITY ,09-October -2023,10 A.M to 12 NOON. Resource Person : Mr.Dharani Kumar,Technical Lead , Cybersecurity Team,ICU Medical Venue: CSE-3F-OW-LH2,SEC,Chennai
- Resource Person – Arduino Tinker CAD - 02-Mar-2024 – SEC
- Resource Person -Research Excellence with Projects -From concept to Publish -02-Mar-2024 - SEC
- Resource Person – Animation Games with SCRATCH – 28-Mar-2024 – SEC
- Organized Workshop – Hands-on workshop for educators on AI opportunities using CO-PILOT – 28-Mar-2024 -SEC
- Organized Workshop – Hands-on workshop on NVIDIA in Healthcare - 19-June -2024 -SEC
- Organized Workshop – Hands-on workshop on NVIDIA in Robotics -04-July -2024 -SEC
- Resource Person - Workshop Title : Getting started with power BI service for improved decision making with AI ,31-August -2024 , 10 A.M to 12 NOON , SEC ,Chennai
- Organized Workshop – Hands-on workshop – Data Visualization Techniques in Data Science – Resource Person : Dr.K.Priyadarsini AP/SRMIST -Kattankulathur , 31-August -2024 – 8 A.M to 10 A.M – SEC ,Chennai
- Organized Seminar - VLSI -Untold Opportunities – Resource Person -Dr.S.Karthi -Associate Professor /SRMIST Vadapalani , 25-oct-2024 – 8A.M to 10 A.M ,SEC,Chennai

CONFERENCES/SEMINARS/WORKSHOPS ATTENDED:

- ExcelR - International Faculty Development Program (FDP) on Cloud Architect 18-11-2024 to 22-11-2024
- online Seminar on Role of AI in IOT and Semiconductor Technologies ,VPM 'S Maharshi Parshuram College of Engineering ,23-09-2024
- IFDP on GenAI and Prompt Engineering using Microsoft Co-Pilot , D.Y. Patil Agriculture and Technical University, Talsande (Maharashtra) BNM Institute of Technology Bangalore (BNMIT)(Karnataka) KIIT university, Bhubaneswar, (Odisha) Marwadi University, Rajkot (Gujarat) ,16 -09- 2024 to 20-09-2024
- 8 Days FDP on Exploring trends and future directions in ML Integrated VLSI design –03-07-2024 to 10-07-2024 – SRM university, Ramapuram
- Seminar on Unraveling the Real time Application of IOT with Deep Learning Models – 10-06-2024 to 14 -06-2024 - SRM Ramapuram University -Physical mode
- Workshop on webinar Recruitment trends in Emerging Technologies-Future& Beyond – 15-05-2024 -ICT Academy
- Workshop on Efficient Project Management &Documentation :Modern Tools Usage for Projects and Paper writing - 16-04-2024 - Science Hub & St.Xavier's College of Management & Technology,Patna,Bihar
- 5 days FDP on Data Analytics using Power BI and Tableau 11-103-2024 to 15-03-2024 – EXCLER
- 5 days FDP on DL and AI 26-02-2024 to 01-03-24 – APSSDC
- 21 days FDP on Fundamentals of Full stack Development 09-01-2024 to 23-01-24 –EXCEL R
- 5 days FDP on Cyber Wise EDU 08-11-2024 to 12-01-24 – Sathyabama Institute of Science and Technology
- 21 days FDP on Fundamentals of Full stack Development 09-01-2024 to 23-01-24 –EXCEL R
- 10 hours NFPD on ML &AI 13-11-2023 to 17-11-23 –EXCEL R -APSSDC
- 5 days FDP on AI Based Edge and Fog Computing 30-10-2023 to 3-11-23 – Sri Krishna college of Engineering and Technology

- 21 days Master class on Deep Learning - Pantech e-Learning Private Limited 28-09-2023 to 18-10-2023
- 21 days FDP on Data Science Tools -Department of CSE -SRMIST-Trichy – 12-7-2023 to 01-08-2023
- 6 days FDP on Data Science Tools and Applications -Department of DS-BS -SRMIST-Kattankulathur – 17-7-2023 to 22-07-2023
- 14 days of international FDP on Research tools -Department of AI-DS -EASWARI Engineering College 3-7-2023 to 14-7-2023
- ICT Academy – 47th edition of Flagship Conference BRIDGE 2022– Industry-Institute Interaction Event with the Theme of Revitalizing India through Edu 5.0 -13 -JULY-2022
- IIT Pals FDP on AI and ML - IIT ALUMNI INDUSTRY INTERACTION CENTER, at IITM Research Park , 28 November 2022
- 5 days FDP on Innovative Research Prospects in Communication, Power systems and Machine Learning Techniques 17th to 21st May 2021 –Jeppiaar Institute of Technology, Chennai
- FEP -Faculty Enrichment Program on Artificial Intelligence, Machine Learning, Computer Vision
- FDP on Machine Learning with Python –A Practical Introduction - 08th to 12th Feb-2021 – SRM Institute of Science and Technology, Faculty of Engineering and Technology-Vadapalani, Chennai
- 2nd IEEE Winter School on Fog/Edge Computing 2020 - December 29 & 30 - 2020
- Python Fundamentals: Series I Vaagdevi college of Engineering in association with Academics and Research- 17 -08-2020 to 22-08-2020
- Computer Vision using Convolutional Neural Networks, Anurag university Blackbucks- 08-06-2020 to 10- 06-2020
- FDP on Cloud Infrastructure and Virtualization 25th to 29th May 2020 - IARE-Hyderabad
- FDP on Data Science Using Machine Learning Algorithm 26th may 2020- SVR Engineering College-Kurnool
- FDP on Machine learning and Deep learning 27th to 31st May 2020-SRM Institute of Science and Technology-Kattankulathur
- FDP on Machine Learning Algorithms, Applications &Advantages 25th to 30th May 2020Kamala Institute of Technology &Science-Telangana
- FDP on Artificial Intelligence 22nd to 26th May 2020 – Vignana Bharathi- Brain O Vision
- FDP on Artificial Intelligence and Machine Learning 18th to 22nd May 2020 – CMR Technical Campus –Hyderabad
- FDP on Research Directives in Deep Learning 6th 7th March 2020 - IET Sponsored -Saveetha School of Engineering, Chennai
- Workshop on Intellectual Property Rights – IPR 18th and 19th October2019- Tamilnadu state council for Science and Technology, Chennai; VISTAS
- Latest measuring Equipments in E & C Agilent technologies, Chennai; M.A.M College of Engineering, Siruganur
- Workshop on Digital library - KLN college of Engineering, Pottapalayam
- Workshop on Finite Element Analysis in Electrical &Electronics Engineering- JJ college of Engineering &technology, Trichy

Webinars Attended:

- Attended Technical webinar on Virtual Reality And Augmented Reality by Institution of Engineers, Coimbatore Local center, Hindusthan college of Engineering and Technology on 15 -05-2023.
- Attended Build a Thon - Smart Internz in collaboration with IBM global University Programs with a theme of Artificial Intelligence, from 20-07-2022 to 26-07-2022 at 6 p.m. to 9 p.m.
- Attended Pals Technology Speaks Enterprise Digital Twin as a risk-free experimentation aid for Business and social systems on 25-08- 2022 ,1.30 - 3.30 pm
- Webinar on Research Workflows, Research Metrics &Excellence in Academic Institutes Elsevier & AICTE ,12-05- 2020
- Virtual Labs for Science and Engineering –A community Effort- Gandhi Institute for Education and Technology, Khurda , 13 -05- 2020

- Data Engineering (Wega) – Mahacharya Foundation 13th & 14th May 2020
- Tax Planning for Salaried Employees- SHASUN Jain College for Women –IQAC ,14 -05- 2020
- Research methodology for Social Science - SHASUN Jain College for Women –IQAC ,15-05-2020
- Impact Factor-Index and Google Scholar – PG & Research dept. – Ethiraj College -16 -05- 2020
- Corporate Quiz –Dept. Of MBA, Dr.N.G. P Institute of Technology, Coimbatore- 11th to 17th - May- 2020
- Research methodology on EBSCO host (APS & BSE)-VISTAS ,19-05-2020
- Data Analytics-Innovative Research methods and Data Analysis – VIMTW, Hyderabad – 23 -05- 2020
- Recent Trends in Computer Science (Quiz)- PG DEPT. of CS &Appli. - Government Arts College- Chidambaram 4th to 8th June 2020
- Introduction to Angular-Gnanamani College of Technology, Namakkal-5 -06-2020
- Introduction to Server-Side Programming- Gnanamani College of Technology, Namakkal-11 -06- 2020
- Crypto currency And Black chain Technology-Vels Institute of Science Technology and Advanced Studies VISTAS, Pallavaram, Chennai - 18-06 -2020
- Changing Cyber world around us-Vels Institute of Science Technology and Advanced Studies VISTAS, Pallavaram, Chennai 16-11-2020

Papers presented /published in International Conferences -5

- 56 th Annual Convention of Operational Research Society of India(2023-ORSI) &10 th International Conference on Business Analytics and Intelligence (2023-ICBAI) -J.N.Tata Auditorium, IISc Bangalore – Paper Title: Predicting the Risk of Gestational Diabetes Mellitus Using AI Mining Technique -18-20 December 2023
- 8th International Conference on ICT FOR SUSTAINABLE DEVELOPMENT -Proceedings Published in ICT4SD – 20 September 2023 – Paper Title: Bluetooth Automated wheelchair
- Second International Conference on Internet of Things – ICIOT 2020, Computer Science and Engineering, SRM Institute of Science and Technology, Kattankulathur Paper title: Taas Environment –Task Scheduling Algorithms of Cloud Computing
- 8th International Conference on Latest Trends in Science, Engineering & Technology – ICLTSET’22 MAY 20 &21,2022, Computer Science and Engineering – Karpagam Institute of Technology, Coimbatore. Paper title: Cloud Environment Task Scheduling Optimization of Modified Genetic Algorithm
- 4 th International Conference -ANTIC 2024 -14 NOV 2024 -Paper title – Comprehensive Water Quality Analysis and prediction using Ensemble Machine Learning models

Papers presented /published in National Conferences -2

- National Conference on Computer Applications in Trade, Education and Research - Cater ‘09, Department of Computer Applications, Dhanalakshmi Srinivasan Engineering College, Preambular Paper Title: A Fuzzy Similarity Approach for Automated Spam Filtering
- 2nd National Conference for Research Scholars on Applications of Emerging Technologies, ISTE CHAPTER, Adhiyamaan College of Engineering, Hosur. Paper Title: Online Temperature Control Using Fuzzy Logic

PROFESSIONAL MEMBERSHIPS:

- Member in IAENG - ID 334330
- Member in SDIWC – ID 5668
- Member in IEEE - ID 99833105

