Faculty Profile

Dr. M. Vijay Anand , M.E., Ph.D
Professor
Date of Joining: 04.12.2017

HIGHLIGHTS:

- Number of Journal Publications: 36
- H-Index: 13
- Project Funding Received: Nil
- Patents Published: 11
- Patents Granted: Nil

PROFESSIONAL LINKS:

- Scopus ID: 57751198900
- Scopus Link: https://www.scopus.com/authid/detail.uri?authorId=57751198900
- Anna University Faculty ID: 4205102
- AICTE Faculty ID: 1-3581597123
- Anna University Supervisor ID: -
- LinkedIn: www.linkedin.com/in/vijayanand-mahadevan-24706640

PROFESSIONAL BACKGROUND:

- Teaching Experience till date: 26 Yrs
- Industrial Experience: Nil

INTERNATIONAL EXPOSURE:

- Presented a research article in the International conference on Advanced Technologies in Engineering and Management held at Taylors University Malaysia in Feb 2019

- Presented a research article in the International conference on Advanced Technologies in Engineering and Management held at De Montfort University Dubai in March 2024.

AREA OF SPECIALIZATION:

- Network Security

- Wireless Sensor Network

- Machine Learning

- Cloud Computing

SPONSORED RESEARCH / FUNDING APPLIED / CONSULTANCY:

An intelligent decision support system for malignant melonama detection (SERB)

PATENTS PUBLISHED/GRANTED:

Patent published in the title Design of Personal Assistant System for Dyspraxia affected patients.

Patent published in the title IOT based Smart Water Bottle for Visually Impaired People.

Patent published in the title A Compatible Platform for Healthcare Applications based on Internet of Medical Things.

Patent published in the title An IOT based Voice Assistant Device with Artificial Intelligence to Asst Visually Impaired Person.

Patent published in the title Blockchain Secure Interface for IOT Device Security Gateway Architecture

Patent published in the title Automatic Pet Emotion Prediction Device Using Artificial Intelligence.

Patent published in the title System and Method for Tree Root Condition Identification to Safeguard against Rain and Storm Hazards

Patent published in the title System and Method for Semiautomatic Magazine based Tool Changing Mechanism in Earth Moving Vehicles

Patent published in the title AI Enabled Autonomous Drone Patrolling System for Anti-Poaching and Wild Life Protection

Autonomous Robotic Foliar Sprayer for Precision Agriculture

Blockchain Based Secure Data Sharing Platform for Web Applications.

PUBLICATIONS:

Title	Journal Name	Year
Predictive Analysis for Multiple Disease Identification using Machine Learning	IEEE Xplore Scopus Indexed	Jan 2025
Automation Xtreme - A Web Automation AI Tool	IEEE Xplore Scopus Indexed	Jan 2025
Residential Price Analysis Using Machine Learning	IEEE Xplore Scopus Indexed	Jan 2025
Driver's Distraction Detection via Hybrid CNN-LSTM	IEEE Xplore Scopus Indexed	Jan 2025
Advancing security and efficiency in MANET using dynamic algorithm switching	Peer-to-Peer Networking and Applications - SCI	Oct 2024
Flood prediction System with Voting Classifier	IEEE Xplore Scopus Indexed	May 2024
Digital Solutions for Crime Control: A Comprehensive Criminal Identification and Reporting Framework	IEEE Xplore Scopus Indexed	May 2024
Speech Emotion Recognition with Web Speech API	IEEE Xplore Scopus Indexed	Feb 2024

Analyzing Personality Insights Through Machine Learning	IEEE Xplore - Scopus Indexed	Feb 2024
NextGen Dynamic Video Generator using AI	IEEE Xplore - Scopus Indexed	Feb 2024
Blockchain Based Application Programming Interface Market Place	IEEE Xplore - Scopus Indexed	Dec 2023
A Secure And Effective Diffused Framework For Intelligent Routing In Transportation Systems	International Journal of Computer Applications in Technology – Web of Science	Sep 2023
Object Detection System In Adverse Weather Conditions Using Ann	IEEE Xplore - Scopus Indexed	July 2023
Spoken Dialog Optimization	IEEE Xplore - Scopus Indexed	June 2023
Water Quality Prediction Using CNN	IEEE Xplore - Scopus Indexed	June 2023
Deep Fuzzy Segnet-Based Lung Nodule Segmentation And Optimized Deep Learning For Lung Cancer Detection	Pattern Analysis and Applications - SCI	Feb 2023
Rating Prediction And Email Query Processing	AIP Conference Proceedings	Jan 2023
Email Notifier Using Named Entity Extraction	AIP Conference Proceedings	Jan 2023
Congestion Avoidance Using Enhanced Blue Algorithm	Wireless Personal Communications - SCI	Sep 2023
Secure Data Transmission In Wireless Adhoc Networks By Detecting Wormhole Attack	IEEE Xplore - Scopus Indexed	July 2022
Gaussian Naïve Bayes Algorithm: A Reliable Technique Involved In The Assortment Of The Segregation In Cancer	Mobile Information Systems – SCI	June 2022
An Enhanced Bacterial Foraging Optimization Algorithm For Secure Data Storage And Privacy-Preserving In Cloud	Peer-to-Peer Networking and Applications - SCI	May 2022
Improving Ecommerce Performance By Dynamically Predicting The Purchased Items Using FUP Incremental Algorithm	Lecture Notes in Networks and Systems - Scopus Indexed.	Jan 2022

Privacy Preserving Framework Using Gaussian Mutation Based Firebug Optimization In Cloud Computing	The Journal of Supercomputing – SCI	Jan 2022
Expert System Using Artificial Intelligence Techniques For Diabetes	Design Engineering - Scopus Indexed.	Oct 2021
Pandemic Disease Control Practices Covid-19:A Cross-Sectional Survey	Design Engineering - Scopus Indexed.	Sep 2021
Allocating Resources In Load Balancing Using Elastic Routing Table	Annals of the Romanian Society for Cell Biology - Scopus Indexed.	July 2021
Accuracy Acquirement For Petrol Price Prediction Using Machine Learning Enhanced Random Forest Algorithm	Turkish Online Journal of Qualitative Inquiry (TOJQI) Scopus Indexed.	June 2021
Theory, Method And Applications Of Deep Learning Impacts On Biomedical Application	Turkish Journal of Computer and Mathematics Education Scopus Indexed.	May 2021
An Enhanced Mathematical Modelling Approach For Anomaly- Based Intrusion Detection	Materials Today Proceedings Science Direct Elsevier Scopus Indexed.	Feb 2021
Efficient Eye Detection And Tracking Using Smart Sensors	International Journal of Innovative Technology and Exploring Engineering Scopus Indexed.	Nov 2019
Bee - Mimetic DSR Based Secure Routing In Manet Using Artificial Bee Colony Optimization	International Journal of Pure and Applied Mathematics. Scopus Indexed.	Aug 2018
Image Classification Using Convolutional Neural Networks	International Journal of Pure and Applied Mathematics. Scopus Indexed.	Aug 2018
Province And Energy Based Itinerary Selection For Secure Routing In Manet Using Bee Colony Optimization.	International Journal of Advanced Engineering and Technology Annexure-I.	Mar 2016
SABC-AODV A Secure Routing Protocol To Mitigate Black Hole Attack In Manet Using Artificial Bee Colony Optimization	Australian Journal of Basic and Applied Sciences – Annexure II	Feb 2015

Secured Routing In MANET Using Artificial Immune System Based On Danger Theory"	International Journal of Emerging Research in Management and Technology	June 2013.
Extending K-Anonymity to Privacy Preserving Data Mining Using Association Rule Hiding Algorithm	International Journal of Advanced Research in Computer Science and Software Engineering	June 2012

CONFERENCES/SEMINARS/WORKSHOPS ATTENDED:

Title	Venue	Year
Object Detection System in Adverse Weather Conditions Using ANN	International Conference for Innovation in Technology (INOCON)	July 2023
Spoken Dialog Optimization	International Conference on Intelligent and Innovative Technologies in Computing, Electrical and Electronics, ICIITCEE 2023	June 2023
Water quality prediction using CNN	Journal of Physics: Conference Series-ICMMT-22	June 2023
Block Chain Using API Market Place	Galgotias University	Feb 2023
Secure Data Transmission in Wireless Adhoc Networks by Detecting Wormhole Attack	International Conference on Smart Structures and Systems, ICSSS 2022	Jan 2023
QoS constraint Enhanced AODV in Cognitive Radio Ad Hoc Network – Springer Proceedings	Bharath University	June 2021
BM-AODV - An Energy Efficient Routing Using Bee Colony Optimization For Manet	MDIS University Singapore	Feb 2019
To Mitigate Black hole Attack Using Bee Inspired Algorithms In Manets	Thiruvalluvar College of Engineering and Technology	Mar 2014

Bee Inspired with AODV for Efficient Routing in Mobile Ad Hoc Networks	Thiruvalluvar College of Engineering and Technology	Mar 2014
Misbehavior detection in MANET using Artificial immune system	Thiruvalluvar College of Engineering & Technology	DEC 2013.
Intrusion Detection Agent[IDA] For Mobile Based Network	Saveetha Engineering College	Dec 2011
Secure Routing Using Quantum Cryptography	Vellore Institute of Technology University	Dec 2011

Workshop participated

Title	Venue	Year
Role of Artificial Intelligence and Internet of Things Applications to Fight Covid Pandemic	SRM Institute of Science and Technology	Sep 2021
International Engineering Education Pre Certificate Workshop – Phase I, II,III (IUCEE)	Harizona State University	Dec 2018
One Day Awareness Workshop on IPR in Industry and Academia	Saveetha Engineering College	Dec 2018
Two Days workshop on Android App Development	Saveetha Engineering College	Sep 2018
Two Days International Workshop on Mobile Application Development	SCSVMV University	Aug 2018
Emerging Trends of Cloud Computing & Industry Adaptation	Saveetha Engineering College	Aug 2018
Short Term Course on Outcome Based Education	NITTTR Chandigarh	Mar 2018
NAAC Awareness on Quality Systems in Higher	Anna University, Chennai	Mar 2015

Education		
National Level Workshop on Cloud Computing and SOA Testing	Adhiparasakthi Engineering College	Apr 2013
National Level Workshop on Ubiquitous Computing	R.M.K Engineering College	Feb 2012
workshop on Advanced Developer Technologies	CIT Coimbatore conducted by Microsoft	Apr 2009
workshop on Total Quality Management	RIPE Institute Chennai	Nov2006.

ACHIEVEMENTS AND AWARDS:

- Received the Global Teacher Award from AKS Education Awards

PROFESSIONAL MEMBERSHIPS:

- CSI
- IAENG