Dr.M.ANNALAKSHMI, M.E., Ph.D.
Associate Professor and CSE Department
Velammal College of Engineering and Technology, Madurai
e-Mail Id: mal@vcet.ac.in

Educational Qualification:

Degree	Institution / Place	Specialization	Year of Passing	Class	University / Board
Ph.D	Thiagarajar College of Engineering, Madurai	Information and Communication	2019	-	Anna University
M.E	Alagappa Chettiar College of Engineering and Technology, Karaikudi	Optical Communication	2005	First Class with Distinction	Anna University
B.E	Thiagarajar College of Engineering, Madurai	Electronics and Communication Engineering	1998	First Class	Madurai Kamaraj University

Experience in Years: 23 Years 3 Months

Employment History:

Category	Designation	Institute /Organization	Period From	Period To	No. of Years and Months
Academic	Associate Professor	Velammal College of Engineering and technology	03.06.2024	Till date	
	Professor	Karpagam College of Engineering, Coimbatore	02.08.2021	25.05.2024	2 Y 10 M
	Professor	Sethu Institute of Technology, Pulloor, Kariapatti.	01.03.2020	24.11.2020	9 M
	Associate Professor		01.01.2011	28.02.2020	9Y 2M
	Assistant Professor (Selection Grade)		01.07.2010	31.12.2010	6 M
	Assistant Professor		01.01.2008	30.06.2010	2Y 6 M
	Senior Lecturer		01.11.2006	31.12.2007	1Y 2 M
	Lecturer		03.07.2000	31.10.2006	6 Y 4 M

Interested Research Areas: Pattern Recognition, Machine Learning, Digital Image
Processing, Computer Vision

Patent rights received:

- Application Number: 202241021623, Title of Invention: Internet of Things, Artificial Intelligent, Machine Learning Based Smart Automation and Control of smart Television Using Python Language, Publication Date (U/S 11A): 22/04/2022

- Application Number: 202341064324, Title of Invention: Wind and Solar hybrid powers system for generating energy, Publication Date (U/S 11A): 06/10/2023

Publications Details:

International Journal Publication Details: 14

1. **M Annalakshmi**, S Mohamed Mansoor Roomi, "Age group classification based on Bins of Gradients over Gradient Hessianspace facial images", The Imaging Science Journal 70 (4), 228-237, 2023

2. T. Senthil Prakash, **Annalakshmi M**, Siva Prasad Patnayakuni & S. Shibu, "Municipal Solid Waste Prediction using Tree Hierarchical Deep Convolutional Neural Network Optimized with Balancing Composite Motion Optimization Algorithm", Journal of Experimental & Theoretical Artificial Intelligence, 2023

3. JR Balashunmugam, MMR Sindha, **Annalakshmi Makkie**, UM Pandiyan, "Image enhancement techniques for fundus images-A review", AIP Conference Proceedings 2857 (1), 2023

4. **M Annalakshmi**, Dr.S.Vijayanand, Dr.R.Muthalagu, Dr.M.Ganesh Mani, "An approach to deep learning based on Discrete wavelet transform for the diagnosis of epilepsy", NeuroQuantology 20 (10), 8941- 8955, 2022

5. **M.Annalakshmi**, SMM Roomi, V.Karthik, "Automatic Extraction of Facial Regions using CLM for the Application of Face Recognition", International Journal of Innovative Technology and Exploring Engineering (IJITEE), 9(9), 264-268, 2020

6. **M Annalakshmi**, SMM Roomi, MP Beham, "Estimation of Face Pose Orientation Using Model-Based Approach", Innovations in Electronics and Communication, Lecture Notes in Networks and Systems, Springer, 61-70, 2019

7. **M.Annalakshmi**, SMM Roomi, AS Naveedh, "A hybrid technique for gender classification with SLBP and HOG features", Cluster Computing, 1-10, 2018

8. P Kalaivani, SMM Roomi, **M Annalakshmi**, "A Comprehensive Framework for Learning Events", The Online Journal of Distance Education and e-Learning 5 (3), 2017

9. **M Annalakshmi**, SMM Roomi, SS Priya, "Gender recognition from face images using texture descriptors for human computer interaction", Journal of Chemical and Pharmaceutical Sciences 9 (3), 1231-1234, 2016.

10. **M.Annalakshmi**, SMM Roomi, "Face detection using color and edge distribution", International Journal of Applied Engineering Research 10 (4), 9415-9423, 2015.

11. JJ Priya, **M Annalakshmi**, R Ganesan, "FPGA Implementation of Low Power Image Scaling Processor using Bilinear Interpolation", Programmable Device Circuits and Systems 6 (5), 141-146, 2014

12. J.Jeba Priya, **M. Annalakshmi**, "Resource Efficient Image Scaling Processor Using VLSI Technology", International Journal of Advanced Research in Computer Science & Technology, 2(2), 447-452, 2014.

13. SC Christabel, **M Annalakshmi**, MDP Winston," Facial feature extraction based on local color and texture for face recognition using neural network", International Journal of Science and Engineering Applications 2 (4), 78-82, 2013

14. B.Aiswarya, **M.Annalakshmi**, "Gender Classification based on Principal Component Analysis and Linear Discriminant Analysis features with Sparse Representation", International Journal of Advanced Information Science and Technology (IJAIST), 2013

International Conference Presentation Details:

- "International Conference on Innovative Trends in Engineering, Science and Management (NICESM2016) at Noorul Islam University, Kumaracoil, 2016
- "International Conference on Computational Intelligence and Communication (ICCIC2012)" at SKR Engineering College, Chennai, 2012

National Conference Presentation Details:

- National Conference on Computer Vision Pattern Recognition Image Processing and Graphics – NCVPRIPG 2019 at KLE Technological University, Hubli, Karnataka, 2019

- The Indian Conference on Computer Vision, Graphics and Image Processing (ICVGIP 2016) at IIT, Guwahati, Assam, 2016

- Workshop on Applications of Computer Vision, Graphics and Image Processing (WACIG 2014) at IISc, Bangalore, 2014

- "DOCTORAL SYMPOSIUM - The Indian Conference on Computer Vision, Graphics and Image Processing (ICVGIP 2014) IISc, Bangalore, 2014

- National Conference on System Design and Information Processing (SDIP2012) at Excel College of Technology, Salem, 2012

- The Indian Conference on Computer Vision, Graphics and Image Processing (ICVGIP 2012) at IIT, Bombay, 2012

- National Conference on Advanced Communication Systems at Alagappa Chettiar College of Engineering and Technology, Karaikudi, 2005

Programs Organized:

- Organized a webinar on "Machine Learning for Healthcare Applications" by Dr.S.Sankar Ganesh, Assistant Professor Senior Grade I, Vellore Institute of Technology.

- Organized a webinar on "Mobile Communications: From Connecting People to Digitalization with 5G, IOT and Beyond" by Ms.Poonkuzhali Elango, Technical Manager, Network Cognitive Services, Nokia.

- Organized a Program on "Career Awareness Program on Cyber Security" by the Resource Person Mr.Shankar Anand C, Senior Technical Associate-Cyber Security Response Center (CSRC)- Tata Communications Limited, Chennai.

- Organized an Awareness Program on "Career Opportunities In Data Science" by the Resource Person Mr.Elanchezhian Sathiaseelan, Founder & CEO, Arus Info, Bangalore.

- Organized a seminar on "Role of microwaves in satellite communication" by the Resource Person Dr.K.Annaram, Professor, Department of ECE, School of Engineering, Avinashilingam Institute for Home Science and Higher Education for Women, Coimbatore.

- Organized a seminar on "Recent Trends in Artificial Intelligence" by the Resource Person Dr.M.Senthilarasi, Assistant professor, Thiagarajar College of Engineering, Madurai.
- Organized a national level workshop on "Advance Driver Assistance System (ADAS)" by the Resource Person Er. Prasanth Gunasekaran, Project Manager, Bosch Global Software Technologies Pvt. Ltd. Coimbatore
- Organized International Conference on Electronics, Communication and Computing Systems(ICECCS'24) as an organizing Secretary, Department of Electronics and Communication Engineering, Karpagam College of Engineering, Coimbatore.

Certifications and Achievements:

- **Top 1%** performer in NPTEL – Digital Electronic Circuits course
- **Top 2%** performer in NPTEL - Principles of Signals and Systems course
- **Top 5%** performer in NPTEL - Digital Design with Verilog course
- Appreciation award for being recognized as **NPTEL DISCIPLINE STAR** Jul-Dec 2021
- Attained **Elite + Silver** in NPTEL - Joy of Computing using Python course
- Attained **Elite + Silver** in NPTEL - System Design Through Verilog Course
- Attained **Elite + Silver** in NPTEL - Hardware Modeling Using Verilog
- Attained **Elite** in NPTEL - Digital Image Processing, Control Engineering, Python for Data Science, Problem Solving through Programming in C courses
- Attained **Elite** in NPTEL – Microprocessors and Microcontrollers courses
- Attained **Elite** in NPTEL -- NBA Accreditation and Teaching and learning in Engineering (NATE)
- Attained Coursera Certificate for the course – Interfacing with the Raspberry Pi
- Won the "Appreciation award" as **Mentor** for the NPTEL online certification courses – Control Engineering, Joy of Computing using Python, Principles of Signals and Systems

5. Google Scholar report: