

## **M.Aarthi Elaveini**

Assistant Professor

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**M.Aarthi Elaveini**, 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 2004 from RVS college of Engineering and Technology (affiliated to Madurai Kamaraj University) and PG in M.E Embedded Systems Technologies in the year 2012 from Sri Muthukumaran Institute of Technology affiliated to Anna University, Chennai. She is pursuing her Ph.D from the SRM Institute of Science and Technology, Chennai in the domain of Image Processing and Deep learning. She served in this teaching profession for more than 11 years. She has published papers in National and International Journals and presented papers in various conferences.

**Area of Research:** Wireless Communications, Image processing, Deep Learning.

### **Selected Publications:**

#### **Web of Science/ SCI/ Scopus**

1. Published a paper entitled **“HYBRID TRANSFORM BASED COMPRESSIVE SENSING OF IMAGE WITH BETTER QUALITY USING DENOISING CONVOLUTION NEURAL NETWORK”** in *Wireless Personal Communication* Vol:128, Issue1, September 2022. **[SCI]**
2. Published a paper entitled **“PERFORMANCE ANALYSIS OF COMPRESSIVE SENSING RECOVERY ALGORITHMS FOR IMAGE PROCESSING USING BLOCK PROCESSING”** in *International Journal of Electrical and Computer Engineering (IJECE)* Vol:12, Issue5, October 2022. **[SCOPUS]**
3. Published a paper entitled **“COMPRESSIVE SENSING OF NATURAL IMAGES WITH HYBRID TRANSFORM BASED SENSING MATRIX”** in 3rd International Conference on Intelligent Technologies (CONIT), Pages 1-5, June 2023. **[SCOPUS]**
4. Published a paper entitled **“HYBRID INTRUSION DETECTION SYSTEM FOR WIRELESS IOT NETWORKS USING DEEP LEARNING ALGORITHM** “in *Journal of Computers and Electrical Engineering*, Vol102, Issue6, July2022. **[SCI]**
5. Published a paper entitled **“ATM SECURITY USING IRIS RECOGNITION** “in *Journal of Mobile Computing and Sustainable Informatics. Lecture notes on Data Engineering and Communication Technologies*, Vol 126, Pages 97-105, July 2022.**[WOS]**
6. Published a paper entitled **“IMAGE PROCESSING TECHNIQUES IN THERMAL AND NON-THERMAL IMAGES,”** in *Second International Conference on Image Processing and*

Capsule Networks (ICIPCN-2021) Lecture Notes in Networks and Systems, Vol 300, Pages 533–544, September 2021. **[SCOPUS]**

**Patents Published:**

Design patent granted – **“ADVANCED ROBOTIC HAND FOR INDUSTRIAL APPLICATION”** on 29/01/2023

Filed a patent **“POWER SHARING AND ECO FRIENDLY SMART CONNECTED VEHICLE SYSTEMS DRIVEN BY HYBRID RENEWABLE ENERGY AND IOT FOR HIGHWAYS”** on 13/11/2021.

Filed a patent **“IOT AI BASED SMART UNDERWATER WIRELESS COMMUNICATION USING ML ALGORITHMS”** on 21/04/2022