

## **FACULTY PROFILE**



Ms. G.VIMALARANI, ME, (Ph.D)

Assistant Professor (SG)

ECE Department

Educational qualification – ME (APPLIED ELECTRONICS)  
BE (INSTRUMENTATION AND CONTROL  
ENGINEERING

Experience: 20 YEARS

### **Publications:**

#### **Publications in Journals & Patents**

- An International Patent titled “A SYSTEM AND METHOD FOR DELAY-AWARE CONCURRENT DATA MANAGEMENT FOR INDUSTRIAL IOT “has been granted, Application No. 2021106046 dated 19th Aug 2021.
- A Patent titled Secured Intelligent Vehicular Systems Using Wireless Sensor Networks“published in The Patent Office Journal No. 36/2020 Dated 04/09/2020, Application No.202041034715 A
- A book chapter titled, “ An Intelligent Internet of Medical Things with Deep Learning Based Automated Breast Cancer Detection and Classification Model“, published in Cognitive Internet of Medical Things for Smart Healthcare, Springerlink, Part of the Studies in Systems, Decision and Control book series (SSDC, volume 311),2020. DOI - <https://doi.org/10.1007/978-3-030-55833-8>
- A Paper titled „An optimized assistive epileptic seizure detection system for human environmental conscientiousness“ 2020 Journal of Green Engineering, Vol. 10, Issue 1, January 2020
- A Paper titled „Tracking Control System For Autonomous Underwater Vehicle Using Mrac Technique“ International Journal of Advanced Research in Electrical, Electronics and Instrumentation Engineering, Vol. 5, Issue 4, April 2016
- A paper titled “Application of Multiple Databases based on hand features in hand biometry” in Springer India 2015, Emerging Research in computing, information communication and Application. Pg 189-196 (September 2015).
- A Paper titled „Tracking Control System For Autonomous Underwater Vehicle Using Mrac Technique“ International Journal of Advanced Research in Electrical, Electronics and Instrumentation Engineering, Vol. 5, Issue 4, April 2016

- A Paper titled “Modeling and Control of a Modular Multilevel Converter” is published in the “International Journal of Emerging Technology in Computer Science & Electronics (IJETCSE)”, ISSN: 0976- 1353, Volume 13, Issue 1, Pp 462-467 in March 2015.
- A Paper titled “EEG Based Emotion recognition System Using MFDFA as Feature Extractor” is published in the IEEE Xplore Digital Library in April 2015.

### **Publications in Conference proceedings**

- A conference Paper titled “Automatic Sickle Cell Anaemia Detection Using Image Processing Technique” is published in Lecture Notes in Networks and Systems., 2022, 373, pp. 281–288
- A conference Paper titled “Mathematical modeling and investigation on aluminium bronze MMC using ECM process” is published in Materials Today: Proceedings, 2021, 45, pp. 2121–2124.
- A conference Paper titled “An Intelligent Internet of Medical Things with Deep Learning Based Automated Breast Cancer Detection and Classification Model” is published in Studies in Systems, Decision and Control, 2021, 311, pp. 181–193
- A conference Paper titled “Design of IoT Network using Deep Learning-based Model for Anomaly Detection” is published in Proceedings of the 5th International Conference on I-SMAC (IoT in Social, Mobile, Analytics and Cloud), I-SMAC 2021, 2021, pp. 216–220
- V R Prakash, V BeslinGeo;,R,Vijayasarithi,**G Vimalarani**Exploiting Localization Capability and Packet Transfer at Intermediate Nodes for Underwater Sensor Networks using Simulations, 2020 Third International Conference on Smart Systems and Inventive Technology (ICSSIT), IEEE Conference Proceedings.
- Sebastian .M and **G.Vimalarani**. CO<sub>2</sub>/O<sub>2</sub> Trimming in optimum Boiler Operation, 5th International Conference on Science and Innovative Engineering Jawahar Engineering College, Chennai, May 4<sup>th</sup> 2015.
- Mithun Ashok and **G.Vimalarani**. Modelling and control of a modular Multilevel Converter, ICRRE, SKR Engineering College, Chennai, March 13<sup>th</sup> 2015.
- V.Prakash and **G.Vimalaranu**. Application of Multiple databases based on Hand features in Hand Biometry, Third International Conference On “Emerging Research In Computing, Information, Communication And Applications” - ERCICA-2015, July 31<sup>th</sup> 2015.
- Sananda Paul and **G.Vimalarani**. EEG Based Emotion Recognition System using MFDFA as Feature Extractor, International Conference RACE 2015, Hindustan University, March 18<sup>th</sup> and 19<sup>th</sup> -2015.
- Shanmugavalli .K and **G.Vimalarani**. Cameraless Surveillance System to detect & track Enemy Intrusion system, International Conference -ICICES 12, SA Engineering College, February 4<sup>th</sup> and 5<sup>th</sup> –2011
- AkshayaBhanu and **G.Vimalarani**. Non-Linear Adaptive Control For Boiler Turbine Units using LabVIEW, National Conference – ETCET 11, SVCET, VIRUDHUNAGAR, February 4<sup>th</sup> and 5<sup>th</sup> –2011