

## FACULTY VITAE

Name – Amudha V

Education –

Ph.D., System on chip-based Speech Recognition, National Institute of Technology, Trichy, 2009.

M.E., Communication Systems, Regional Engineering College, Trichy, 1999.

B.E., Electronics and Communication Engineering, A.C.C.E.T, Madurai Kamaraj University, 1994.

Academic experience –

Dr. M. G. R. Educational and Research Institute, Chennai, Professor, From May, 2024- Present.

Saveetha School of Engineering, Professor, From 2018-2024.

St. Peter's Institute of Higher Education and Research, Professor, From 2011-2018.

Vel Tech Rengarajan Dr, Sakunthala R&D Institute, Professor, From 2009-2011.

Jaya Engineering College, Assistant Professor From 2008-2009.

Kumaraguru College of Technology, Lecturer, From 2002-2005.

Periyar Maniammai College of Technology for Women, Lecturer, From 1996-2000.

Non-academic experience –

Accord Software and Systems, Bangalore, Systems Engineer, From 2001-2002.

National Institute of Technology, Trichy, Principal Investigator, From 2005 -2008.

Certifications or professional registrations – NIL

Current membership in professional organizations –

Member of Institution of Electrical and Electronics Engineers.

Life Fellow of Institution of Electronics and Telecommunication Engineers.

Life Member of Indian Society for Technical Education.

Honors and awards –

Received Best Faculty Award, Saveetha School of Engineering, 2023.

Received Best Researcher Award, ARIO National Educational Excellence Award 2022.

Received International Women Scientist Award, VDGGOOD Professional Association, 2020.

Service activities (within and outside of the institution) –

Reviewer for Journal – Elsevier, Signal Processing

Briefly list the most important publications and presentations from the past five years –

Patent:

Title of invention: Smart Remote Garbage Monitoring System based on IOT Patent number: 201941050085, Certificate of grant Innovation patent by Indian Government.

Publications:

Amudha V & et.al,2024, Comparison of mango leaf diseases identification using different convolutional neural network layers, 16<sup>th</sup> IEEE International Engineering and Computing Research Conference, DOI:10.1063/5.0168644.

Amudha V & et.al,2023, Correlation of Groundwater Quality Index Prediction and Classification Using Optimal Deep Belief Network, 4th International Conference on Smart Electronics and Communication (ICOSEC), DOI:10.1109/ICOSEC58147.2023.10275993

Amudha V & et.al,2022, Analysis of Physical, Ocular, and Aquaphobic Properties of Zirconium Oxide Nanofilms by Varying Sputtering Pressure, Hindawi Journal of Nanomaterials, Volume 2022, Article ID 8752664, 10 pages <https://doi.org/10.1155/2022/8752664>.

Amudha V & et.al,2020, Comparative analysis of distributive linear and non-linear optimised spectrum sensing clustering techniques in cognitive radio network systems, August 2020, IET Networks, DOI:10.1049/iet-net.2020.0122

Briefly list the most recent professional development activities-

Organized DRDO sponsored two days National workshop on “Hardware Architecture for Machine Learning Algorithms”, 23-25th March, 2022.

Delivered Guest lecture at Sri Venkateswara College of Engineering (SVCE), Sriperumbudur 2023.

Delivered Guest Lecture at Jeppiar Institute of Technology, 2023.

Books Published:

“Analog Digital Communication”, ISBN No. 978-93-95978-92-7, Alpha International Publication, 2023.

“MIMO-IDMA System Performance for SUI and LTE Frequency Selective Channels”, Book Chapter 2022, in book: Advances in Parallel Computing Algorithms, Tools and Paradigms, doi:10.3233/APC220059.