

FACULTY VITAE

Name- Themozhi G

Education-

Ph.D., Faculty of Electrical Engineering, Anna University, Chennai, Tamil Nadu, 2013.

M.E., Dr.M.G.R. Engineering College, University of Madras, Chennai, Tamil Nadu, 2001.

A.M.I.E., Electronics and Communication Engineering, Institution of Engineers' India, 1992.

Academic Experience-

Dr. M.G.R. Educational and Research Institute, Professor, from June 2024 -Present

AMET University, Professor, Department of Electrical and Electronics, from 1.7.2019 - 14.6.2024.

Tagore Engineering College, Chennai, Professor and Head, Department of Electronics and Communication Engineering from 24.06.2005 - 31.06.2019.

Sree Sastha Institute of Engineering & Technology, Chennai, Assistant Professor, Department of Electronics and Communication Engineering from 22.03.2004 - 21.06.2005.

Dr. M.G.R. Engineering College, Chennai, Lecturer, Department of Electronics and Communication Engineering from 03.06.1997 - 17.03.2004.

G.K.M. College of Engineering & Technology, Chennai, Lecturer, Department of Electronics and Communication Engineering from 13.11.1996 - 31.05.1997.

S.K.A. Polytechnic, Manamadurai, Lecturer, Department of Electronics and Communication Engineering from 03.11.1993 to 12.11.1996.

Non-Academic Experience- NIL

Certifications or professional registrations –NPTEL Certification on

Microprocessors And Microcontrollers

Accreditation And Outcome Based Learning

Emotional Intelligence

Yoga for Positive for managing career and Life

Current membership in professional organizations –

Life members in Institution of Engineers' (India) (FIE), Life member in IETE (MIETE), Life member in ISTE (MISTE)

Honors and awards-

Honors:

Letter of Appreciation for being a Keynote speaker for the Virtual National Conference(ETST 2021) -Organized by JP College of Engineering, Tenkasi, Tamil Nadu

Invited Talk on Programmable Logic Controllers in Robots in Tagore Engineering College, Chennai on 26.04.2021.

Certificate of Appreciation for Judge in Project Exhibiton'21 in Sri Sairam Institute of Technology, Chennai on 31.05.2021.

Certificate of Appreciation for Resource Person, Skill Building Workshop on AI In Computer Vision Organized by the Department of Computer Science and Engineering, SRM University held on 17-09-2021.

Certificate of Appreciation for Session Chair at ESN 2nd International conference on multidisciplinary research and Innovation, 2020.

Awards:

Best Paper Award, "1st International Conference on Recent Trends and Innovations in Sustainable Electrical Energy Systems (RISEE 2023), National Institute of Technology Puducherry, Karaikal,

sponsored by Institution of Engineers' India, Puducherry State Centre and Funded by SERB, India.

Pillars of India Award 2021 from ESN Publications Tamil Nadu.

Preeminent Educator Award for remarkable contribution in the field of VLSI and Signal Processing by International Institute of Organized Research in 2019 .

Service activities (within and outside of the institution)-

Recognized Supervisor to guide Ph.D/MS Scholar in Anna University, Chennai

Produced Four Doctorates and guiding two scholars at present

Reviewed articles for the following journals and IEEE conferences:

Computer and Electrical Engineering (Science Direct – Elsevier)

IET Power Electronics

Journal of Electrical and Computer Engineering -Hindawi

AICTE Sponsored IEEE International Conference on Networks, Multimedia and Information Technology (NMITCON) is organized Meenakshi Institute of Technology, Bengaluru INDIA during 1st and 2nd September 2023 in association with IEEE Bangalore Section.

IEEE first international conference on Ambient Intelligence, Knowledge Informatics and Industrial Electronics (AIKIE -2023)

Faculty – in – Charge, IEI Student Chapter

BoS member - IEI Kanchepuram Local Centre

Department BoS member

Academic council member (AMET University) – 2022-2023 & 2023-2024

Director – Research Centre for Robotics, AI and IoT

Department ISO Coordinator

NBA Criteria In charge 4,7 and 8

NAAC Criteria 5

Coordinator, Women Empowerment Cell

Quality Improvement Cell Coordinator, Organized online workshops and Online tests in association with Spoken Tutorial Team, IIT Bombay in Tagore Engineering College.

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

Patent:

Solar Power Charging Station for Vehicles, Patent No./Design No.:371377-00, Granted by the Patent Office, Govt. of India.

Drone for Pest control, Patent No./Design No.:396511-00, Granted by the Patent Office, Govt. of India.

Publications:

G. Themozhi, K. Srinivasan, T. Arun Srinivas, A. Prabha,(2024), “Analysis of suitable converter for the implementation of drive system in solar photovoltaic panels”, Electrical Engineering & Electromechanics, no. 1, pp.17-22. (Scopus indexed)

I Jayasukumari, G Themozhi, C Amali, (2023), “Design of rectangular microstrip patch antenna using hybrid group teaching optimization algorithm and volcano Eruption algorithm”, Wireless Networks, 29 (7), 3091-310. (Springer) (SCI Indexed)

I. Jayasukumari, G Themozhi, C Amali, (2023),” Investigation and Compatibility of a Low Profile Wideband Circular Ring Patch Antenna with Slotted Partial Ground Plane, Advances in Science and Technology, 130, 137-141. (Scopus indexed)

A Prabha, G Themozhi, RR Sathi, (2023), “SMO Algorithm to Unravel CEED Problem using Wind and Solar”. Intelligent Automation & Soft Computing 35 (2). (SCI Indexed)

T ArunSrinivas, G Themozhi, (2021),“Proportional resonant controlled interleaved CUK converter space vector modulated inverter fed induction motor drive system with improved torque response”,Timișoara: EdituraPolitehnica.

G Themozhi, A Prabha, P Radhakrishnan, K Manigandan, (2021), “Battery monitoring and smart charging using Iot for electrical vehicle applications, Int. J. of Aquatic Science 12 (3), 593-60.

A Prabha, G Themozhi, S Reddy, (2021), “Implementation of Line Flow Constraint Combined Economic Emission Dispatch using Hybrid Firefly and Flower Pollen Algorithm”, Oxidation Communications 44 (1).

G Themozhi, T Arun Srinivas, (2021),” Proportional Resonant Controlled Interleaved CUK Converter Space Vector Modulated Inverter fed Induction Motor Drive System with Improved Torque Response”,Journal of Electrical Engineering 21 (3), 76-84.(Scopus Indexed)

A. Prabha, G. Themozhi, S. Rama Reddy, (2020), “Wind And Solar Penetration In Dynamic Economic Emission Dispatch Using Flower Pollen Algorithm”, Journal of Environmental Protection and Ecology 21, No 6, 2431–2442. (SCI indexed)

T.Arunsrinivas, G.Themozhi, K.Padmanathan, (2020), “FOPID controlled Inter leaved cuk converter Inverter fed Induction Motor Drive System with Improved Time Response”, Solid State Technology Volume: 63 Issue: 6. (Scopus Indexed)

Merlin Linda George, Themozhi Govindarajan, Kavitha Angamuthu Rajasekaran and Sudheer Reddy Bandi, (2020), “A robust similarity based deep siamese convolutional neural network for gait recognition across views”, Computational Intelligence;1–30. Wiley Periodicals LLC . DOI: 10.1111/coin.12361 (SCI Indexed)

Radhakrishnan.P and G.Themozhi, (2020), “Design of CMOS Truncated Multiplier with 10T GDI Full Adder”, TEST Engineering Management, pp.3955-3960.(Scopus indexed)

Saravanakumar.C and G.Themozhi, (2020), “A Competent Multiplier Architecture with Reduced Transistor Count for Radix -2 Butterfly Computation of Fast Fourier Transform”, TEST Management and Engineering, Vol.29, No.4, PP.1158-1169.(Scopus indexed)

Radhakrishnan P , Themozhi.G and Sree Rathna Lakshmi.N.V.S, “ FPGA implementation of XOR-MUX Full Adder and Subtractor based Truncated DCT for Audio Processing Applications”, International Journal of Advanced Science and Technology, Vol.29.no.6, April-May 2020.

Radhakrishnan.P and G.Themozhi, “ FPGA implementation of XOR-MUX full adder based DWT for signal processing applications”, microprocessor and Microsystems, 2020. (Science Direct - Elseveir) (SCI Indexed)

Sunil Raj. K and Themozhi.G, (2020), “Full Bridge Three Port Bidirectional Converter for Photovoltaic Application”, International Journal of Advanced Science and Technology Vol.29, No.4,PP.1158-1169. (Scopus indexed)

T.Arun Srinivas and Themozhi.G, (2020), “Current Mode controlled fuzzy logic based inter leaved cuk converter SVM Fed induction motor drive system”, microprocessor and Microsystems, 2020.(Science Direct- Elseveir) (SCI Indexed)

A.Prabha, G.Themozhi, S.Rama Reddy, (2020), “Solving Combined Economic Emission Dispatch Problem with Wind Energy Penetration Using Intelligent Firefly Algorithm”, International Journal of Psychosocial Rehabilitation, Volume 24 - Issue 8.

G.Themozhi and S.Rama Reddy, “Comparison of Simulation and Experimental Results of ZVS Bidirectional DC-DC Converter”, Journal of Electrical Engineering: Volume 11 - Edition : 3, . Papers published in the proceedings of IEEE Conference

G Themozhi, I Jayasukumari, (2023), “Design and Analysis of Conformal Array Antenna”, Proceedings of 2023 International Conference on Signal Processing, Computation, Electronics, Power, and Telecommunication, IConSCEPT 2023.

Briefly list the most recent professional development activities –

Organized Guest Lectures, Seminar

Attended Workshops, Seminars and Conferences.

Organized a sponsored IEI sponsored two days' Workshop on Design and Testing of Advanced Robots" under the aegis of – Electronics and Telecommunication Engineering Division on 19.12.2022 & 20.12.2022.

Organizing Committee member in IEI sponsored National Convention of marine Engineers and National Conference on Recent Advances in Marine Engineering and Marine Systems (Organized by IEI Kanchepuram Local Centre).

Books Published-

Book titled, "Linear Integrated Circuits", ISBN: 979-93-89970-92-0, Published by Charulatha Publications.

Book titled, "Introduction to Robotics", ISBN: 978-93-90967-31-5, Charulatha Publications, Chennai

Book chapter entitled, "Improving Power Quality: Issues and Solutions" in the book Research Trends in Science and Technology Volume I, Bhummi Publishing, ISBN: 978-93-88901-64-2

Book Chapter title, "SMART SERVILENCE SYSTEM IN THE AGRICULTURE LAND", ISBN: 978-93-88901-40-6, Advances in Science and Technology Volume I, Bhummi Publishing