**Dr. M. Vaigundamoorthi, M.E., Ph.D.,**

**Associate Professor**

**PROFESSIONAL LINKS**
Scopus ID: 24605735500
ORCID ID: 0000-0002-4805-7802
AU Supervisor ID: 2930021

**EXPERIENCE**
Academic: 21.8 years

**AREA OF SPECIALIZATION**
- Power Electronics and Electrical drives
- Sustainable Energy

**AREA OF RESEARCH**
- Machine learning algorithm and IOT applications to sustainable energy
- Power converters design

**JOURNAL PUBLICATIONS**
- Vaigundamoorthi and Ramesh, "Hardware implementation and steady state analysis of ZVS- PWM Cuk converter based MPP tracking for solar PV module", International Journal of Emerging Electric Power Systems, DOI :10.1515/1553-779X.2920 vol.13, issue4, article 1, 2012(September), - SCOPUS/SCI –
- Vaigundamoorthi M and Ramesh R," Hardware Implementation and Chaotic PWM control of Cuk converter based MPPT for solar PV system," Journal of Electrical Engg, SCOPUS /SCI / THOMSON ROUTER CITED /ANNEXURE 1 LISTED BY ANNA UNIVERSITY Volume 17, issue 3,2017, PP-1-8 ISSN 1582-4594
- Vaigundamoorthi M, &Ramesh R "MPPT Oscillations minimization a using nonlinear dynamic control of SEPIC based MPPT for Solar PV system", International Journal of

Electrical and Computer Engineering (SCOPUS)- Vol. 10, No. 6, December 2020, pp. 6268~6275, ISSN: 2088-8708, DOI: 10.11591/IJECE, v10i6.pp6268-6275

- Vaigundamoorthi .M and Arul Kumar K," Impact of flipped classroom approach in Engineering Education "Journal of Engineering Education Transformation" Volume 35, Number2, October 2021 ISSN2349-2473 EISSN2304-1707 SCOPUS INDEXED
- Vaigundamoorthi. M and Ramesh. R, "Experimental Investigation of chaos in input regulated solar PV powered Cuk converter", International journal of computer applications, Volume43- No.10, April 2012, DOI:10.5120/6138-8379
- Vaigundamoorthi. M and Ramesh. R ` Performance analysis of soft switched DC-DC converter based MPPT circuits for solar PV module" ISSN 1974-9821 VOL6 NO.1.P-P1-8 FEB-2013" International Review on modelling and simulations – SCOPUS INDEXED
- Vaigundamoorthi and Ramesh and Maglin "Design and analysis of SEPIC converter based MPPT for solar PV module with CPWM", Journal of Electrical Engineering and Technology Vol. 9, No. 4: 1269-1276, 2014, **DOI:** 10.5370/JEET.2014.9.4.1269-SCOPUS/SCI
- Vaigundamoorthi M and T.Ajith BoscoRaj etl "Grid Connected Solar PV System with SEPIC Converter Compared with Parallel Boost Converter Based MPPT, International Journal of Photoenergy Volume 2014, Article ID 385720, SCI
  DOI: 10.1155/2014/385720
- Vaigundamoorthi .M and Ramesh R, "ZVS-PWM active clamping Cuk converter based MPPT for solar PV module", European Journal of scientific research, ISSN 1450-216X Vol.58 No.3 (2011), pp.305-315/ SCOPUS INDEXED

**CONFERENCE PUBLICATIONS**

- Vaigundamoorthi M E. Jayashree, G. Uma, "State - Space Averaging, Simulation, Stability Studies for Step up Positive Output Switched Capacitor DC-DC Converter," *2007 7th International Conference on Power Electronics and Drive Systems*, Bangkok, 2007, pp. 1389-1393. DOI: 10.1109/PEDS.2007.4487886 DOI: 10.1109/PEDS.2007.4487886
- Dr M.Vaigundamoorthi et al " Improved Energy Harvesting in Photovoltaic system using SEPIC converter using GA , DOI :10.1109/ICICT60155.2024.10544864 – indexed IEEE/SCOPUS- 2024
- Dr M.Vaigundamoorthi et al: Deep learning method to analyse the Bi LSTM model for Energy consumption forecasting in smart cities, published in ICSCNA conference proceedings – IEEE conference 2023 DOI 10.1109/ICSCNA58489.2023.10370467-Indexed in IEEE/SCOPUS-2024
- Dr M.Vaigundamoorthi et al " Design and development of non-invasive glucose monitoring device using advanced micro controllers 10.1109/ICOECA62351.2024.00075 indexed in IEEE/Scopus – 2024

**ONLINE COURSES**

- Analog circuits
- Electrical drives

- Design of Power Converters
- Smart Grid
- Soft computing
- Cloud computing
- Introduction to Machine learning

**EVENTS ORGANISED**

- Workshop : 12
- Guest Lecture : 40
- Symposium : 8
- Tech-Fest : 6

**EVENTS PARTICIPATED**

- Conference : 7
- NEP : 1
- FDTPs : 7

**PROFESSIONAL SOCIETY**

- IEEE
- ISTE