PUVVADI VENKATA MAHESH
Assistant Professor,
EEE Department,
RVR & JC College of Engineering, Chowdavaram,
Guntur, Andhra Pradesh-522019.
Phone: 9491073317 & 9491073318 (O)
Teaching Experience: 9 years
Educational qualifications:

Program	Institution	Year
Ph. D. (Pursuing)	Annamalai University, Chidambaram, Tamilnadu.	Joined on DEC-2018
M.Tech *(Instrumentation and Control Systems)*	National Institute of Technology Calicut, Kerala.	2014
B.Tech *(Electrical and Electronics Engineering)*	Rajeev Gandhi Memorial College of Engineering and Technology, Kurnool, AP. (Affiliated to JNTUA)	2011

Achievements: GATE –All India 1487 rank in 2012.

– 4 Times GATE Qualified.

Research Interests: Machine Learning, Embedded Systems, Solar Systems and Control Systems.

Memberships in Professional Societies: Member of IAENG, IRED.

ORCID: 0000-0002-7639-7601 (https://orcid.org/0000-0002-7639-7601)

Scopus ID: 57189247300 (https://www.scopus.com/authid/detail.uri?authorId=57189247300)

Google Scholar ID: PP6UjAgAAAAJ (https://scholar.google.com/citations?user=PP6UjAgAAAAJ&hl=en)

Research Gate: https://www.researchgate.net/profile/Venkata-Mahesh

Publons: https://publons.com/researcher/4125631/p-venkata-mahesh/ **(Web of Science Researcher ID: ABQ-0348-2022)**

Vidwan ID: 187848 (https://vidwan.inflibnet.ac.in/profile/187848)

Patent Applications Published:

- A Patent application published by Govt. of India on the title "**BIDIRECTIONAL DC-DC POWER CONVERTER CIRCUIT TO REDUCE CURRENT RIPPLES**, Patent Application No: 202041052197 A, Date of Filing: 01/12/2020, Publication Date: 11/12/2020.

- A Patent application published by Govt. of India on the title "**METHOD FOR ASSESSING OPERATING STATUS OF ELECTRICAL MOTORS USING MACHINE TRAINING (ML) MODELS** ", Patent Application No: 202141056413 A, Date of Filing: 06/12/2021, Publication Date: 10/12/2021.

- A Patent application published by Govt. of India on the title " **INTEGRATING ELECTRICAL APPLIANCES WITH EMBEDDED INTERNET OF THINGS (IOT) HUB FOR AUTOMATIC UPGRADATION**", Patent Application No: 202241004671 A, Date of Filing: 28/01/2022, Publication Date: 04/02/2022.

Research work / Research papers published:

Journals:

1. Ramanaiah, M. L., Y. V. K. Reddy and P. Venkata Mahesh. "**Economic Load Dispatch With Practical Constraints Using Mountaineering Team-Based Optimization Technique**", *International Journal of Intelligent Systems and Applications in Engineering*, vol. 12, no. 1s, Sept. 2023, pp. 201-8, https://ijisae.org/index.php/IJISAE/article/view/3407 **(SCOPUS)**

2. P. Venkata Mahesh, S. Meyyappan, and RamaKoteswaraRao Alla, "**Support Vector Regression Machine Learning based Maximum Power Point Tracking for Solar Photovoltaic Systems**", *International Journal of Electrical and Computer Engineering Systems*, vol. 14, no. 1, 2023, pp. 100-108, doi: https://doi.org/10.32985/ijeces.14.1.11 **(Web of Science & SCOPUS)**

3. P. Venkata Mahesh, S. Meyyappan, RamaKoteswaraRao Alla, "**Maximum Power Point Tracking using Decision-Tree Machine-Learning Algorithm for Photovoltaic Systems**", *Clean Energy*, vol. 6, no. 5, 2022, pp. 762–775, doi: https://doi.org/10.1093/ce/zkac057. **(Web of Science & SCOPUS)**

4. P. Venkata Mahesh, S. Meyyappan, and RamaKoteswaraRao Alla, "**Maximum Power Point Tracking with Regression Machine Learning Algorithms for Solar PV systems**", *International Journal of Renewable Energy Research*, vol. 12, no.3, 2022, pp. 1327-1338, doi: https://doi.org/10.20508/ijrer.v12i3.13249.g8517. **(Web of Science & SCOPUS)**

5. P. Venkata Mahesh, S. Meyyappan, and RamaKoteswaraRao Alla, "**A New Multivariate Linear Regression MPPT Algorithm for Solar PV System with Boost Converter**", *ECTI Transactions on Electrical Engineering, Electronics, and Communications*, vol. 20, no. 2, June 2022, pp. 269-81, doi: https://doi.org/10.37936/ecti-eec.2022202.246909. **(SCOPUS)**

6. Shyma Muhammed, P. Venkata Mahesh, Abraham T. Mathew, T. K. Sunil Kumar, "**Model Approximation and Controller Synthesis for H_∞ Robust Control of Multiple Time Delay Transfer Functions**"**,** *International Review of Automatic Control (IREACO),* vol. 9, no. 1, 2016, pp. 1-10, doi: https://doi.org/10.15866/ireaco.v9i1.8331. **(SCOPUS)**

7. P. Venkata Mahesh. S. Muhammed. Dr. SunilKumar T.K., "**A New Approach for Approximate Modeling and Controller Design of SISO Multiple Time Delay System**", *International Journal on Recent and Innovation Trends in Computing and Communication*, vol. 2, no. 5, May 2014, pp. 1230-1234, doi: https://doi.org/10.17762/ijritcc.v2i5.3146.

Conferences:

1. P. Venkata Mahesh, S. Meyyappan, and RamaKoteswaraRao Alla, "**Machine Learning Algorithms for Solar PV Systems: An Overview**", *2nd International Conference on Recent Trends in Power Systems and Power Electronics (NEC-ICPSPE-2K22),* held at Department of EEE, Narasaraopeta Engineering College, Narasaraopet, Guntur, Andhra Pradesh, India, during 22nd & 23rd July, 2022.

Workshops /Seminars / Courses Participated:

- Participated in 6-Day workshop on "**Hybrid Electrical Vehicle's Battery Management System Using Heuristic Techniques - Challenges & Opportunities**", held from 11-09-2023 to 16-09-2023 organized by the Department of Electrical and Electronics Engineering, Sri Venkateswara College of Engineering, Tirupati.
- Completed a Three Day National Level Faculty Development Program on "**Real Time Applications with myRIO and cRIO**", held from 24th to 26th August, 2023 organized by the Department of Electronics & Communication Engineering, RVR & JC College of Engineering.
- Participated in One week online short term course on "**Cyber-Physical Systems & Industrial Automation**", during 17-22, July 2023, organized by the Department of Electrical Engineering, National Institute of Technology, Kurukshetra.
- Participated in One day workshop on "**ASPIRE- A Self programming into Redefining Efficacy**", organised by Alumni Cell & NSS Units of RVR & JC College of Engineering on 10/03/2023.
- Participated in the AICTE recognized online Faculty Development Programme on "**Big Data Applications in Electrical Engineering**", conducted by Electrical Engineering Department, NITTTR, Chandigarh from 20/02/2023 to 24/02/2023 (One Week) at nodal centre National Institute of Technology, Kurukshetra.
- Participated in "**IP Awareness/Training program**", on August 11, 2022 under National Intellectual Property Awareness Mission, Jointly Organized by Intellectual Property Office and MoE's Innovation Cell, India.
- Participated in the one week online short term course on "**Advanced Control Systems and Experiments**", during 18-23 July, 2022 organized by Department of Electrical Engineering, NIT Kurukshetra.
- Participated & completed successfully AICTE Training And Learning (ATAL) Academy Online Elementary FDP on "**Recent Trends in Renewable Energy**" from 20/09/2021 to 24/09/2021 at University Institute of Technolgy, rajiv gandhi technical university.
- One week National level Intercollegiate Online Faculty Development Program on "**Outcome Based Education & Bloom's Taxonomy**" organised by the Internal Quality Assurance Cell of Ramakrishna Mission Vivekananda Centenary College (Autonomous), Kolkata in association with ipsr solutions limited 08 November 2021 to 15 November 2021.
- Participated in Five day Faculty Development Program on "**Recent Trends and Developments in Electrical Power Engineering**" organised by Chadalawada Ramanamma Engineering College, Tirupathi from 21st -25th June 2021.
- Participated in Webinar on "**DFIG Based Wind Emulator using WAVECT**" by WAVECT on 2nd June 2021.

- Participated in Webinar on "**FPGA Controller for Electrical Engineering**" by WAVECT on 19th May 2021.
- Participated in Three days online Faculty Development Program on "**Written Communication for Digital Teaching, Administration & Research**" organised by Dr.Babasaheb Ambedkar Technological University, Lonere Maharashtra from 22nd -24th March 2021.
- Participated in webinar on "**Online Tools for Researchers**" organised by Department of EEE, Albertain Institute of Science and Technology, Kalamassery, Kochi, Kerala on 7th July 2020.
- Participated in Two-Days webinar (SNU-WEBTECH SERIES-I) on "**Machine and Deep Learning with MATLAB**" organized by Sister Nivedita University, Kolkata,West Bengal during 3rd - 4th July, 2020.
- Participated in "**One Day Workshop on Arduino**", at IIT Bombay Remote center, R.V.R. & J. C. College of Engineering, Chowdavaram, Guntur on 8 Feb 2020.
- Participated in workshop on "**Problem Identification, Research Methodology & Academic Writing**", organized by Kallam Haranadhareddy Institute of Technology during 28-29 Jan, 2019.
- Participated in workshop on "**Advanced Process Control & Instrumentation System**", conducted by NITTTR, Kolkata, organized by RVRJCCE remote centre, during 7 - 11 Jan, 2019.
- Participated FDP 201X on "**Pedagogy for online & Blended Teaching Learning Process**", organized by IIT, Bombay at (Remote Centre) RVR & JCCE during 30 Oct - 7 Jan, 2019. (online course)
- Participated in FDP101X on "**Foundation Program in ICT for Education**", organized by IIT, Bombay at (Remote Centre) RVR & JCCE during 13 Sep - 27 Oct, 2018.(online course)
- Participated in FDP conducted by Math Works Training Services "**Generating HDL Code from Simulink**" on 28 Feb 2018at KL University
- Participated in FDP conducted by Math Works Training Services "**Embedded Coder for Production Code Generation**" during 26 – 27, Feb 2018 at KL University.
- Participated in short term course on "**Artificial Neural Network & Fuzzy Logic through ICT**", from 24-28, April 2017 at RVR & JC College of Engineering.
- Participated in Workshop on "**Free and Open Source Software in Teaching and Learning**" during 4 - 5, March 2017at NIT Warangal.
- Participated in TEQIP II Sponsored workshop on "**Operation and Control of Wind -driven Generators**" during15 - 16, April 2016 at NIT Trichy, Tamilnadu.
- Participated in One day seminar on "**Deregulated power systems**" organised by V.R.Siddhartha Engineering College on 27 Feb, 2016.

ACADEMIC/ADMINISTRATIVE DUTIES:

- In-charge Projects Lab/EEE
- In-charge Electric-Bike/EEE
- Co-convener of Electronic Equipment Maintenance & repairs Committee
- Member in committees
  - ✓ Disaster Management Cell
  - ✓ Waste Management & Environment Improvement measures