



A DAILY NEWSLETTER

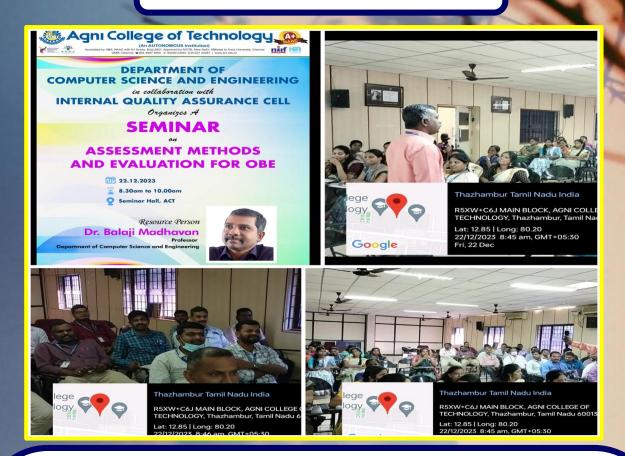
Editor in Chief

Editors

Dr. Srinivasan Alavandar Principal, ACT Ms N Dhivya, AP - S&H Ms S Archana AP - EEE Mr.V Kothantapani - EEE II Year



IQAC SEMINAR SERIES



The Internal Quality Assurance Cell (IQAC) and the Department of Computer Science and Engineering collaborated to conduct a seminar on "ASSESSMENT METHODS AND EVALUATION FOR **OBE**" that was held in the ACT seminar hall. The resource person for the seminar was Dr.Balaji Madhavan, Professor, Science and Engineering, Agni Computer College Technology. The faculty members from all the departments participated in the seminar.

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DARM



The **Department Academic Review Meeting** was conducted for the Department of Electrical and Electronics Engineering on 21st December 2023. Dr. A Kalaimurugan, Professor/Head, presented the Department Academics to Dr. Srinivasan Alavandar, Principal along with concerned faculty members & Dr. T. Anand, IQAC Coordinator. The department progress, curriculum coverage, IAT results, and previous-year Anna University result analysis were all reviewed with improvement recommendations.







AIDS DEPARTMENT WORKSHOP



II-year students of the Artificial Intelligence and Data Science Department have attended a one-day workshop on the topic titled "CREATIVE CODING WITH JAVASCRIPT" on December 21, 2023. The resource person for the workshop was Dr. Jey **Veerasamy, Professor in the Computer Science Department of** the University of Texas at Dallas. The students were benefited by the website "editor.p5js.org," which provides a supportive environment for students to learn and experiment with creative coding using p5.js.







GALLERY



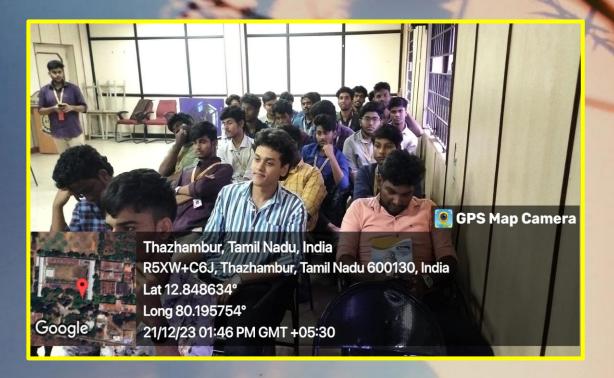








GALLERY











FACULTY ACHIEVEMENT

Electric Power Components and Systems, 0(0): 1–14, 2023 © 2023 Taylor & Francis Group, LLC ISSN: 1532-5008 print / 1532-5016 online DOI: 10.1080/15325008.2023.2280921





Hysteresis-Based Multi-Level Inverter Integrated Sliding Mode Controller for Optical Materials in PV Solar Grids

Muralidaran G.,1 Anandha Kumar G.,2 and Kalaimurugan A.3

CONTENTS

- 1. Introduction
- 2. Literature Survey
- 3. Proposed System
- 4. Experimental Results and Discussion
- 5. Conclusion

References

Abstract—One of the renewable energy resources is Photovoltaic systems, which can be interconnected to any grid system. Most PV-grid systems frequently meet the Total Harmonic Distortion (THD) problem during the power flow, degrading the power transmission performance in the PV-Grid through interferences. Despite the high demand and supply variations, conventional techniques and devices cannot balance the THD. Thus, several earlier research techniques have focused on balancing the THD to improve the power transmission in the PV-Grid. A few recent researchers have stated that multi-level inverters reduce THD. Hence, this paper aims to propose a Hysteresis Modulated Multi-level (HMM) inverter integrated with a Sliding Mode (SM) controller for optical devices and materials. The HMM inverter reduces the THD, and the SM controller reduces the nonlinearity of the power flow. The proposed MM inverter-based SM controller-based optical devices can provide more efficient and fast communication in the PV grid. The experiment is carried out by creating a Simulink model in MATLAB software, and the results are verified in a PV-Grid system regarding voltage, current, and SSs. The results indicate that the proposed HMM inverter integrated SM controller effectively controls and regulates the PV-Grid systems' power transmission.

Dr. A. Kalaimurugan, Head of the Department of Electrical and Electronics Engineering, has published a research article titled "Hyteresis-Based Multi-Level Inverter Integrated Sliding Mode Controller for Optical Materials in PV Solar Grids" in the Electric Power Components and Systems Journal (Taylor and Francis), with impact factor 1.276.







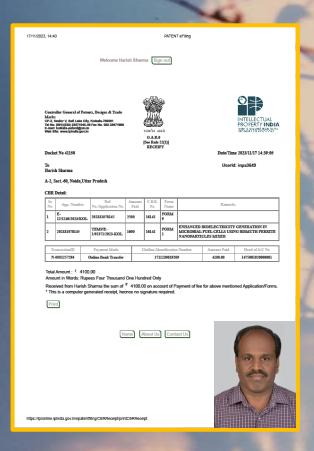
¹Saveetha Institute of Medical and Technical Sciences, Chennai, India

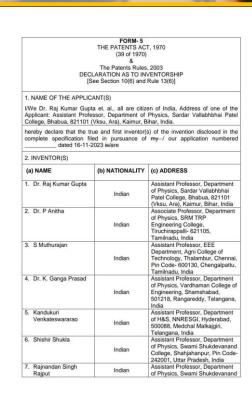
²EEE Department, Saveetha Institute of Medical and Technical Sciences, Chennai, India

³EEE Department, Agni College of Technology, Chennai, India



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Mr. Muthurajan S , AP - Department of Electrical and Electronics Engineering, has filed a patent (Application no.202331078145) titled "ENHANCED BIOELECTRICITY GENERATION IN MICROBIAL FUEL CELLS USING BISMUTH FERRITE NANOPARTICLES MIXED "under IPR Publication, India.

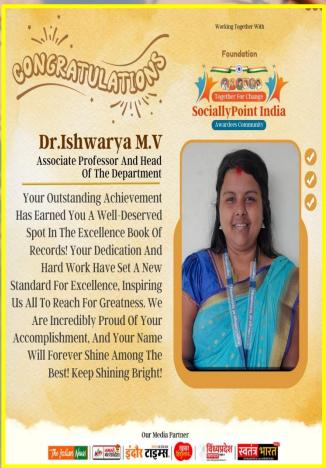






FACULTY ACHIEVEMENT





Dr. Ishwarya M.V., Associate Professor and Head of the Department of Artificial Intelligence and Data Science, has been rewarded with the "CERTIFICATE OF APPRECIATION" by the "EXCELLENCE BOOK OF RECORDS" for her outstanding achievements and remarkable contributions. It was rewarded on December 21, 2023.







FACULTY PARTICIPATION



Dr. B. Dhanasakkaravarthi, Assistant Professor from the Mechanical Engineering Department has participated in the Faculty Development Program Concepts and Research Issues in Engineering Applications", organized by SRM Madurai College of Engineering and Technology.







FACULTY PARTICIPATION



SRM MADURAI

COLLEGE FOR ENGINEERING AND TECHNOLOGY Approved by AICTE - NEW DELHI I Affiliated to Anna University Pottapalayam, Sivgangai District - 630612.



COLLEGE CODE: 9111

COUNSELLING CODE: 5842



Certificate of Participation



This is to certify that Anand C, Assistant Professor from Agni College of Technology has participated in the Six Day Online Faculty Development Program on "Quality Concepts and Research Issues in Engineering Applications" organized by Department of Mechanical Engineering from 11th to 16th of December 2023.

Dr. RASHOK KUMAR, HoD/Mech. Coordinator



Dr. S. DURAIRAJ, PRINCIPAL Convener



Mr. C. Anand, Assistant Professor, Department of Aerospace Engineering, has participated in the six-day online faculty development program on Quality Concepts and Research Issues in Engineering Applications organized by SRM Madurai College of Engineering from December 11 to 16, 2023.

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Agnı College of Technology









FACULTY PARTICIPATION





LLEGE CODE: 9111

COUNSELLING CODE: 5842



Certificate of Participation



to certify that Mathiyarasi M, Assistant professor from Agni college of Technology has Day Online participated Six Development Program on "Quality Concepts and Engineering organized by Department of Mechanical Engineering from 11th to 16th of December 2023.

Dr. R.ASHOK KUMAR, HoD/Mech. Coordinator

P.8-



Dr. S. DURAIRA PRINCIPAL



Mrs.M.Mathiyarasi, Assistant Professor, Department of Aerospace Engineering, has participated in the six-day online faculty development program on Quality Concepts and Research Issues in Engineering Applications organized by Madurai College of Engineering from December 11 to 16, 2023.









STUDENT ACHIEVEMENT



Sampath, 2018-2022 Akash Batch, Department Mechatronics Engineering, pursuing his Master Degree in Artificial Intelligence at DePaul University, Chicago, USA, has appeared for **Graduate Assessment Exams**, as a part of his graduate program curriculum, for the Introductory Course on Tools and Techniques for Computational **Analysis** on 22nd December 2023 at Agni College of Technology, proctored by Dr.R.Pandiyarajan, Department of Mechatronics Engineering.







STUDENT ACHIEVEMENT





CERTIFICATE OF COMPLETION

Presented to

Muthu Saran

For successfully completing a free online course

Data Visualization using Python

Provided by
Great Learning Academy

To verify this certificate visit verify mycreallearning.com/GEWAFRC

Muthu Saran, II-year student of the Department of Computer Science and Engineering, has completed an online certificate in Data Visualization using Python organized by Great Learning on December 2023.







STUDENT PARTICIPATION





W. Karunakaran, Gowtham Raj S, Dhanush Chakaravarthy R, Balamanikandan M, Darmick K R, Dharshini C from the Department of Computer Science and Engineering, have participated in KANITAMIL hackathon organized by Startup TN, which was held on 12.12.23 and have been shortlisted for the pre- final round of the event.









STUDENT PARTICIPATION



Esther Selvamani M., II-year student, Department of Biomedical Engineering has participated in "PAPER PRESENTATION" event of One Day National Level Technical Symposium TECTRIX-2023 on 18th October, organized by Department of Information Security, Institute of Computer Science and Engineering, SIMATS Engineering, SIMATS Chennai.

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STUDENT PARTICIPATION







CERTIFICATE

OF PARTICIPATION

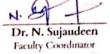
This is to certify that



Arundhathi N

Agni college of Technology

has attended IOT Workshop conducted at Invente'23 - a national level tech-fest organized by SSN College of Engineering, Chennai & Shiv Nadar University, Chennai.







Arundhathi N, III-year student, Department of Biomedical **WORKSHOP**" Engineering has participated in "IOT conducted at Invente'23- a nation level tech-fest organized by SSN College of Engineering, Chennai & Shiv Nadar University, Chennai.







STUDENT PARTICIPATION



Vidhya Sri R, II year student, Department of Biomedical Engineering has participated in "Glider Making Competition" organized by the Department of Aerospace Engineering, Agni College of Technology, on 18th October 2023.



FACULTY REPOSITORY



Archana S, AP - Department of Electrical and Electronics Engineering, has sketched " The dance of graphite unveils a moment frozen in time - a little girl's gaze meeting the fragile beauty of a butterfly".





