Dr. P.PALANIVEL

Personal Details

Address for Communication : 3/252C, Akilandeswari Nagar,
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E-mail : drpalanivelres@gmail.com

Scopus Author ID : 35146457200
ORCiD ID : 0000-0002-1512-5530

Google scholar
https://scholar.google.com/citations?hl=en&user=v_WybpQAAAAJ

Web of Science ID : JGD-8759-2023
Vidwan ID : 537534
Linkedin link : https://www.linkedin.com/in/dr-palanivel-panjamoorthy-406820134/

Education

B.E (Electrical & Electronics Engg) : 1998
K.S.R College of Technology,
Tiruchengode.

M.E (Power Electronics and Drives) : 2004
College of Engineering,
Anna University, Guindy, Chennai

Ph.D (Power Electronics and Drives) : 2012
SRM University, Chennai

Employment :

- **College : Meenakshi Ramaswmy Engineering College**
  Designation : **Principal**
  Duration : 09.06.2025 to Till date **(11 Months)**
- **College : Roever Engineering College**
  Designation : **Professor & Head (17.07.2023 to till date)**
  Dean –Ist year (13.06.2022 to 16.07.2023)
  Duration : 20.05.2022 to 04.06.2025 **(3 Years)**

- **College : Bharath Institute of higher education and Research**
  Designation : **Professor**
  Duration : 11.11.2021 to 19.05.2022 **(6 Months)**
- **College : Adama Science and Technology University Ethiopia**
  Designation : **Professor**
  Duration : 29.09.2015 to 31.07.2021 (**5 Years 10 Months**)
- **College : Roever College of Engineering and Technology**
  Designation : **Professor & Head**
  Duration : 04.06.2015 to 19.09.2015 (**4 Months**)
- **College : M.A.M College of Engineering**
  Designation : **Professor & Head**
  Duration : 05.12.2005 to 16.05.2015 (**9 Years 6 Months**)
- **College : Dr.Navalar Nedunchezhiyan College of Engineering**
  Designation : Lecturer
  Duration : 08.07.1998 to 03.12.2005 **(7 Years 5 Months)**

Award : Best Faculty Award 2023 – 2024 at Roever Engineering College
Best Teacher Award 2024 – 2025 at Thanthai Roevers group of institutions

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Administrative experience of relevance:

- Dean (Academic & Administration)
- Head of the Department
- NAAC, NBA
- Anna University Central Valuation Zone XII EEE Board chairman
- Project Coordinator UG & PG
- Organized– National conference ,Workshop, FDP,SDP
- Power Electronics Special Interest Group coordinator (Adama Science and Technology University, Ethiopia)
- Department Graduate Committee member (Adama Science and Technology University, Ethiopia)
- Department Examination Committee member (Adama Science and Technology University, Ethiopia)
- Curriculam prepation member (Adama Science and Technology University, Ethiopia)

Research

Google scholar Cited by

	All
Citations	519
h-index	11
i10-index	12

Scopus Cited by

	All
Citations	325
h-index	8

Research Supervisor

- **Recognised Supervisor for Anna University, Chennai**
- **Old / New Reco. No. : 23.03.04 / 2330156**

- **Ph.D Completed five research scholars**
  1. Dr. A.Senthilnathan, Associate Professor in Dr.N.G.P College of Engineering and Technology, Coimbatore.
  2. Dr. M.Boopathy, Associate Professor in Chennai Institute of Technology, Chennai.
  3. Dr. S.Sampath, Excutive Engineer, TNEB, Pattukottai.
  4. Dr. Aviraja Manjula, Professor in Prist University, Thanjore.
  5. Dr. S.Ezhilarasan, Professor in St.Joesph,s College of Engineering & Technology.

Area of Interest

1. **Teaching**

Under Graduate Programme	Post Graduate Programme
○ Power Electronics	○ Analysis of power converters
○ Smart grid	○ Modeling and Design of SMPS
○ Multilevel power converters	○ Analysis of Electrical Drives
○ Special Electrical Machines	○ Special Electrical Machines
○ SMPS and UPS	○ Power Electronics for Renewable Energy Systems
○ Hybrid Energy Technology	○ Power Quality
○ Power Electronics for Renewable Energy Systems	○ Analysis and design of Inverters
○ Electrical Machines	○ Solid state DC drives

○ Special Electrical Machines ○ Power Quality ○ Solid state drives ○ Electrical drives and control ○ Network analysis and synthesis	○ Solid state AC drives ○ High voltage DC Transmission systems ○ Advanced Power Electronics ○ Physics and Modelling of Power Electronics ○ Application of Power Electronics ○ Design & Control of Electrical drives

2. Research

- Power Electronics
- Power Quality
- Drives and control
- Renewable Energy

Students Project guided

UG Project – 37 Batches

PG Project –25 Students

Involved in Conducting the Following Programs

1. "SHOCK-2k4" Student Symposium, 16.09.2004 and 17.09.2004 at Dr.NNCE, Tholudur.
2. "CALNIX'09" Student Symposium, on 16.09.2009 at MAMCE.
3. "NCEET'10" National Conference, on 27.3.2010 at MAMCE.
4. "IPECS-2011" National Conference, 18.3.2011 and 19.3.2011 at MAMCE.
5. "MATLAB simulink training for circuit branch engineers" on 12.11.2011 at MAMCE.
6. "IPECS-2012" National Conference 16.3.2012 and 17.3.2012 at MAMCE.
7. "IPECS-2013" National Conference 16.3.13 and 17.3.2013 at MAMCE.
8. "Role of power electronics in future power systems" AICTE Sponsored FDP from 06.05.2013 to 19.05.2013 – 14 days at MAMCE.
9. "Role of power electronics in restructuring of power systems and Management" AICTE Sponsored FDP from 04.11.2013 to 17.11.2013 – 14 days at MAMCE.
10. "International Yoga day" on 21.06.2022 at REC.
11. "Education 4.O // Industry 4.O on 27.08.2022 at REC.
12. "Electric vehicle technology and circuit using ECAD" on 20.02.2024 at REC.
13. "23rd Annual day" on 09.03.2024 at REC.
14. "Intellectual property in energy sector" Seminar on 08.04.2024 at REC.
15. National Conference "NHSET 2k24" on 27.04.2024 at REC.

Workshop/ FDP/ STP Attended

1. "AU Power Lab" Anna University Sponsored FDP 21/6/2004 and 22/6/2004 -2 days at College of Engineering, Anna University, Chennai.
2. "Power electronic Instrumentation" Anna University sponsored FDP from 29/11/2004 to 5/12/2004 – 7 days PSNA College of Engineering & Technology, Dindigul.
3. "Digital techniques in Power Electronics Applications" – Workshop from 25/2/2005 to 27/2/2005 – 3 days at Kumaraguru College of Technology, Coimbatore.
4. "Hybrid energy Systems – Induction training Programme" AICTE Sponsored FDP from 29/5/2006 to 11/6/2006 – 14 days at Periyar Maniammai College of Technology for Women – Thanjavur.
5. "Modeling of FACTS devices & It's Applications" – Workshop 27/7/2007 and 28/7/2007 – 2 days at SRM University, Chennai.
6. "High Impact Teaching Skills" conducted by Wipro Technologies from 25/5/2009 to 29/5/2009 – 5 days at MAMCE.
7. "In pursuit of excellence in Engineering Education trough Innovations" conducted by Wipro Technologies 23/9/2009 and 24/9/2009 at MAMCE.
8. "Recent trends in Bio-medical Engineering using MATLAB simulation tools" AICTE Sponsored SDP from 17/5/2010 to 28/5/2010 – 12 days at Dhanalakshmi Srinivasan Engineering College – Perambalur.
9. "Power simulation training for circuit branch Engineering", PSIM – 2010 on 17/9/2010 – 1 day at MAMCE.
10. "Advanced control techniques for Power Electronics and Systems" AICTE sponsored FDP from 16/5/2011 to 29/5/2011 – 14 days at MAMCE.
11. "Role of power electronics in future power systems" AICTE Sponsored FDP from 06.05.2013 to 19.05.2013 – 14 days at MAMCE.
12. "Innovations in the Technology" from 13.05.2013 & 14.05.2015 – 2 days at Anna University, Chennai.
13. "Recent trends in condition monitoring of power apparatus and systems" AICTE sponsored workshop from 14.10.2013 to 18.10.2013 – 5 days at IIT Madras.
14. "Role of power electronics in restructuring of power systems and Management" AICTE Sponsored FDP from 04.11.2013 to 17.11.2013 – 14 days at MAMCE.
15. "MATLAB simulink training for circuit branch engineers" workshop on 12.11.2013 – 1 day at MAMCE.
16. "NI LabVIEW core1 Course from 04.12.2013 to 06.12.2013 - 3 days at MAMCE.
17. "Swarm Evolutionary memetic and Fuzzy and neural computing" - Tutorial from 19.12.2013 to 21.12.2013 – 3 days at SRM University, Chennai.
18. "NI LabVIEW core2 Course from 23.06.2014 to 25.06.2014 - 3 days at MAMCE.
19. AICTE Training And Learning (ATAL) Academy Online Elementary FDP on "Energy Engineering" from 21/02/2022 to 25/02/2022 at DEFENCE INSTITUTE OF ADVANCED TECHNOLOGY (DU).
20. Five Day National Level Workshop on "Simulation and Analysis of Power System Case Studies using MiPower" from 14-02-2022 to 18-02-2022 at Presidency University Bangaluru.
21. One Week Online Faculty Development Programme on "Research Opportunities in Electrical Power Engineering" at Prasad V. Potluri Siddhartha Institute of Technology, Vijayawada, Andhra Pradesh, India from 23/03/2022 to 27/03/2022.

22. One Week Online Workshop on “Optimization Techniques for Engineering Applications (OTEA2022)” organized by Department of Electrical Engineering, Rajkiya Engineering College Sonbhadra during 28thFebruary to 4thMarch 2022.
23. AICTE recognized Short Term Course on Artificial Intelligence and Big Data Analysis for Electrical Engineering (in Collaboration with MathWorks) through ICT from 07.03.2022 to 11.03.2022 (One Week) at National Institute of Technical Teachers Training and Research, Chandigarh.
24. AICTE recognized Short Term Course on Innovative Technologies Application through Unnat Bharat Abhiyan through ICT conducted by Rural Development Department from 21.03.2022 to 25.03.2022 (One Week) at National Institute of Technical Teachers Training and Research, Chandigarh.
25. Faculty Training Program on Industry 4.0 organized by IEEE India Council during April 2 nd and 3 rd ,2022 t hrough online.
26. Two days Workshop on Issues of Renewable energy integrated smart grid College of Engg, Koustuv groups, Bubhaneswar from 22/04/2022 to 23/04/2022.
27. A One-week National Level Online Faculty Development Programme on “Smart Grids and Micro Grids in Indian Context” from 20-06-2022 to 24-06-2022 at Mahatma Gandhi Institute of Technology, Gandipet, Hyderabad.
28. Faculty Development Programme on “Research Process in an Academic System” on 13th August’ 2022 Organized by Centre for Research at Roever Engineering College.
29. One day hands on training titled on “Creativity and Novelty in Research” Roever Engineering College, Perambalur, on 5th November’ 2022 Organized by Centre For Research (CFR).
30. Five Days FDP on “Advanced technologies in Electrical Engineering” from 01-08-2022 to 05-08-2022 at Sai Ram engineering College.
31. A One-week National Level Online Faculty Development Programme on “Recent Trends in Green Energy Initiatives and Soft Computing Techniques” from 11-07-2023 to 15-07-2023 at Mahatma Gandhi Institute of Technology, Gandipet, Hyderabad.
32. National level workshop on "Electrical safety in Industries-An overview” organized by Department of Electrical and Electronics Engineering in Association with SRM TRP Engineering College IEEE Student Branch, IIC and Tesla club on 24.01.2023.
33. Three Days International Online Faculty Development Program on “Innovation and Research in Sustainable Business Management, Science and Engineering” Organized by the College of Engineering, in association with Khandesh College Education Society, Jalgaon, Maharashtra, India from January 9th to 11th, 2023.
34. A One-week Online Faculty Development Programme on “Electric vehicle” from 15.01.2024 to 20.01.2024 at Sanjay Bhokare group of Institutions, Mumbai.
35. AICTE Training And Learning (ATAL) Academy Faculty Development Program on “Energy management system for electric vehicles using artificial neural network techniques” at K Ramakrishnan College of Technology from 12/02/2024 to 7/02/2024.
36. AICTE Training And Learning (ATAL) Academy Faculty Development Program on “A Recent Trends in Flexible and Transparent Electronics” at M.A.M. SCHOOL OF ENGINEERING from 05/08/2024 to 10/08/2024.
37. AICTE Training And Learning (ATAL) Academy Faculty Development Program on “Recent Trends in Power engineering and Electric Vehicle Technologies” at Chennai Institute of Technology from 21/10/2024 to 26/10/2024.

Guest Lectures

1. Guest lecture on “Inverters and its Applications” 12th August 2009 in Department of Electrical and Electronics Engineering at Dr.Navalar Nedunchezhiyan college of Engineering, Tholudur.
2. Guest lecture on “Multilevel inverters” 4th August 2010 in Department of Electrical and Electronics Engineering at Trichy Engineering college, Trichy.
3. Guest lecture on “Multilevel inverter Using FACTS devices”AICTE Faculty development programme in Role of Power Electronics in Future Power Systems during 6th to 17th May 2013 at M.A.M College of Engineering, Trichy.
4. Guest lecture on “Multilevel inverter fed Special Electrical Machines”AICTE Faculty development programme in Power Electronics Applications during 12th to 27th December 2013 at M.A.M College of Engineering, Trichy.
5. Guest lecture on “Transmission and Distribution” 19th October 2014 in Department of Electrical and Electronics Engineering at Dr.Navalar Nedunchezhiyan college of Engineering, Tholudur.
6. Guest lecture on “Speed Control of Induction motor Drives” Anna University Faculty development programme in Solid State Drives during 8th to 14th December 2013 at Dr.Navalar Nedunchezhiyan college of Engineering, Tholudur.
7. Guest lecture on “Speed Control of DC motor Drives” Anna University Faculty development programme in Solid State Drives during 8th to 14th December 2013 at M.A.M College of Engineering and Technology, Trichy.
8. Guest lecture on “ Multilevel inverters and applications” 20th February 2016 at E.G.S Pillai Engineering college, Nagapattinam.

Research Articals Publication and Conference presentation

Published International Journals

[1] Senthilnathan and P.Palanivel “Intelligent stick for visually impaired persons” AIP Publishing, 2023, 2764(1). **(Scopus indexed)**

[2] Senthilnathan and P.Palanivel “Mathematical Modelling and Torque Ripple Waning in BLDC Motor Using Outgoing-Phase Current Discharge Hysteresis Controlled ANFIS Controller” Mathematical Problems in Engineering, 2022, 3971695. **(SCI indexed) and (Scopus indexed)**

[3] Senthilnathan and P.Palanivel “SAZZ Converter Fed Fuzzy Logic Speed Controlled BLDC Motor Drive” Lecture Notes in Electrical Engineering, 2022, 758, pp. 953–959. **(Scopus indexed)**

[4] Senthilnathan and P.Palanivel “Fuzzy logic controlled 3 port DC to DC Cuk converter with IoT based PV panel monitoring system” International Journal of System Assurance Engineering and Management, 2022. **(SCI indexed) and (Scopus indexed)**

[5] P.Palanivel and M Bhoopathi “Estimation of Locational marginal pricing using hybrid optimization algorithm” Intelligent Automation and Soft Computing – Technical science press, Vol. 31, no.1, 2022. **(SCI indexed) and (Scopus indexed)**

[6] P.Palanivel, Hinseramu Alemayehul, R. Selvarasu, B. Chandramouli and Ravikumar Hiremath "Design and analysis of solar powered water pumping system" International Journal of Electrical Engineering and Technology, Vol. 11, Issue. 9, November 2020, 92-100 **(Scopus indexed)**

[7] P.Palanivel, Hinseramu Alemayehul, R. Selvarasu, B. Chandramouli and Ravikumar Hiremath "Design and analysis of BLDC motor drive based on fuzzy-PID controller" International Journal of Electrical Engineering and Technology, Vol. 11, Issue. 10, December 2020, 281-290. **(Scopus indexed)**

[8] P.Palanivel and Senthilnathan "A new approach for commutation torque ripple reduction of FPGA based brushless DC motor with outgoing phase current controll" Elsievier - Microprocessors and Microsystems, 2020, 75,103043. **(SCI indexed) and (Scopus indexed)**

[9] P.Palanivel and Senthilnathan "Fuzzy logic controller based zeta converter for BLDC motor" Journal of Advanced Research in Dynamical and Control Systems, Vol. 12, No. 7, 2020, 125-133. **(SCI indexed) and (Scopus indexed)**

[10] P.Palanivel and R.Selvarasu "Self-Adaptive Firefly Algorithm for solving UnitCommitment Problem in Power System" Journal of Physics, Conf. Ser. 1921 (2021) 012066 **(Scopus indexed)**

[11] P.Palanivel and M Bhoopathi "Locational marginal pricing calculation using concentrated and distributed model based on DCOPF in power market" Journal of Electrical Engineering, Vol. 19, Issue. 3, 2019. **(Scopus indexed)**

[12] P.Palanivel and C.Subramani "Design and Implementation of 13 Levels Multilevel Inverter for Photovoltaic System" Journal of Physics, Conf. Ser. 1000 012047, 2018 **(Scopus indexed)**

[13] P.Palanivel and Senthilnathan "Torque ripple and harmonicreduction in bldc drive using cbspwm seven level cascaded MLI" International Journal of Printing, Packaging & Allied Sciences, Vol. 5, No. 1, February 2017, 699-708.

[14] P.Palanivel, Kena Likassa and Hinsermu Alemayehu "Control of permanent magnet synchronous motor using space vector modulation" Ethiopian journal of sciences and sustainable development, Vol.4, No.2, pp..14-21, June 2017.

[15] P.Palanivel and S.Sambath "Power quality enhancement strategy in transmission lines by distributed generation" Int. J. Energy Technology and Policy, Vol. 12, No. 3, 2016, 259-267. **(Scopus indexed)**

[16] P.Palanivel and Avi Raja Manjula "Corroboration of Normalized Least Mean Square Based Adaptive Selective Current Harmonic Elimination in Voltage Source Inverter Using DSP Processor" International Journal of Power Electronics and Drives Systems, Vol.6, No. 1, March 2015. **(Scopus indexed)**

[17] P.Palanivel and Avi Raja Manjula" Investigation of Line Current Harmonics in Cascaded Multi-Level Inverter Based Induction Motor Drive and an Adaptive on-line Selective Current Harmonic Elimination Algorithm" Research Journal of Applied Science Engineering and Technology, Vol.9, No.7, March 2015. **(Scopus indexed)**

[18] Dr.P.Palanivel and Avi Raja Manjula "Normalized Least Mean Square Based Selective Current Harmonic Elimination in Voltage Source Inverters" International Review on Modelling and Simulations (IREMOS), Vol.7, No. 3 (2014), Page-394-400. **(Scopus indexed)**

[19] Dr.P.Palanivel S.Sambath, and S.Ezhilarasan" Design And Implementation of Energy Management System For A Micro Grid With Energy Storage System" International Journal of Applied Engineering Research, Vol. 9, No. 23 (2014) pp. 22301-22311. **(Scopus indexed)**

[20] Dr.P.Palanivel S.Sambath, Dr.S.S.Dash and Dr.C.Subramani" A Real Time Approach for DG Placement for Power System Performance Enhancement" International Journal of Applied Engineering Research, Vol. 9, No 23, 2014, pp. 20597-20610. **(Scopus indexed)**

[21] P.Palanivel, S.Sambath and C.subramani, "Case Study of line loss Reduction in TNEB Power Grid," TELKOMNIKA Indonesian Journal of Electrical Engineering, Vol. 12, No. 8, August 2014, pp. 5847 ~ 5853. **(Scopus indexed)**

[22] P.Palanivel, Jagadeesh Kumar and Subhransu Sekhar Dash, "Comparison of optimization technique to find the optimal location of facts controllers for transmission line," American Journal of Applied Sciences, Vol.11, no.2, pp.280-290, January 2014. **(Scopus indexed)**

[23] Dr.P.Palanivel and S.Sambath "A New Approach to Quantify the Loss Reduction Due to Distributed Generation" Middle-East Journal of Scientific Research", 19 (2): 202-205, Jan 2014. **(Scopus indexed)**

[24] Dr.P.Palanivel, S.Sambath and C.Subramani, "Power Quality Enhancement Strategy in transmission lines by Distributed Generation" Advances in Natural and Applied sciences" , vol.8, no.1, January 2014, Pages: 16-22. **(Scopus indexed)**

[25] Dr.P.Palanivel S.Sambath, Dr.S.S.Dash and Dr.C.Subramani" Opportunities for Power Quality improvement through Distributed Generation" World Applied Sciences Journal, 29 (7): 940-945, January 2014. **(Scopus indexed)**

[26] Dr.P.Palanivel S.Sambath and Dr.C.Subramani "Reduction of line losses in presence of Distributed Power Generation:India-A Case study" World Applied Sciences Journal , 27 (9): 1168-1174, December 2013. **(Scopus indexed)**

[27] P.Palanivel, Subhransu Sekhar Dash and S.Premalatha, "Performance Analysis of Multilevel Inverters Using Variable Switching Frequency Carrier Based PWM Techniques," Renewable Energy & Power Quality Journal, No.10, April 2012. **(Scopus indexed)**

[28] P.Palanivel and Subhransu Sekhar Dash, "Analysis of THD and Output Voltage Performance for Cascaded Multilevel Inverter using carrier Pulse Width Modulation Techniques," IET Power Electronics, Vol.4, Issue 8, pp.951-958, September 2011. **(SCI indexed) and (Scopus indexed)**

[29] Palanivel, P., Dash, SS., Chellammal, N. and Zobaa, AF., " Performance Analysis of Three Phase Multilevel Inverters Using Sinusoidal Pulse Width Modulation with Zero Sequence Signal," International Review of Electrical Engineering, Vol. 6, No. 2, Part A, pp.566-573, April 2011. **(Scopus indexed)**

[30] P.Palanivel and Subhransu Sekhar Dash, "Advanced Control Techniques for Three Phase Cascaded Multilevel Inverter," Journal of Electrical Engineering, pp.173-178, Volume 11 / 2011 - Edition: 1. **(SCI indexed) and (Scopus indexed)**

[31] P.Palanivel and Subhransu Sekhar Dash, "Performance Analysis of Multi Carrier Based Pulse Width Modulated Three Phase Cascaded H - Bridge Multilevel Inverter," Journal of Electrical Engineering, Vol.11, Edition .2, pp.28-35, 2011. **(SCI indexed) and (Scopus indexed)**

[32] P.Palanivel and Subhransu Sekhar Dash, "Phase Shifted Carrier Pulse Width Modulation for Three Phase Multilevel Inverter to Minimize THD and Enhance Output Voltage Performances," Journal of Electrical systems, Vol.6, Issue.2, pp.1-13, June 2010. **(Scopus indexed)**

[33] P.Palanivel and Subhransu Sekhar Dash, "Phase Shifted Carrier Pulse Width Modulation methods for Three Phase Multilevel Inverter," International Journal of Electrical Engineering and Embedded systems, Vol.2, no.1, pp.85 - 90, Jan - Jun 2010.

[34] P.Palanivel and Subhransu Sekhar Dash, "Comparative Study Of Constant Switching Frequency And Variable Switching Frequency Multicarrier Pulse Width Modulation For Three Phase Multilevel Inverter," International Journal of Recent Trends in Engineering, Vol.2, no.7, pp.49-52, Nov 2009.

[35] P.Palanivel and Subhransu Sekhar Dash, "Analysis And Implementation Of Multicarrier Pulse Width Modulation Based Three Phase Cascaded Multilevel Inverter," International Journal Of Power Systems And Power Electronics, Vol.2, no.2, pp.70-75, June 2009.

[36] P.Palanivel and Subhransu Sekhar Dash, "Multicarrier Pulse Width Modulation Based Three Phase Multilevel Inverter With Over Modulation And Low Modulation Indices," International Journal Of Engineering Studies, Vol.1, no.2, pp.71-82, Apr 2009.

Papers presented in International Conference

[37] Dr.P.Palanivel, R.Selvarasu, V Velmurugan and Ellappan "Self-Adaptive Firefly Algorithm for solving Unit Commitment Problem in Power System" International Conference on Advances in Smart Sensor, Signal Processing and Communication Technology (ICASSCT2021), Goam University,Goa, India, 19 - 20, March 2021.

[38] Dr.P.Palanivel, R.Selvarasu,Kena Likassa and Hinsermu Alemayehu "Cascaded hybrid device multilevel converters for wind mill applications" Springer ICAST - 2018, Bahirdar University, Ethiopia, Octobar 5th & 6th, 2018.

[39] Dr.P.Palanivel, R.Selvarasu and Kena Likassa "Multi-Objectives for UPFC Placement Using Self-Adaptive Firefly Algorithm" CEE-2018, Ethiopian Society of Electrical Engineers, Addis ababa,Ethiopia, March 24th & 25th 2018.

[40] Dr.P.Palanivel, Kena Likassa and Hinsermu Alemayehu "Hybrid multilevel converters for 5 MW wind turbines" Springer ICICA & ICPCIT - 2018, Velamal engineering college , Chennai, India, February 2nd & 3rd, 2018.

[41] Dr.P.Palanivel, Dr.Tafesse Asrath, Kena Likassa and Hinsermu Alemayehu " Phase shifted carrier PWM based multilevel converters for 1.5 MW wind turbine" ICAST-2017, Bahirdar University, Ethiopia, May 19th & 20th, 2017.

[42] Dr.P.Palanivel and S.Sambath "Distributed Generation in Demand Side Management", International Conference on Power Electronics and Renewable Energy Systems (ICPERES2014) in associations with Springer and IEEE", April 2014,Rajalakshmi Engg College Chennai, (LNEE Series).

[43] Dr.P.Palanivel Avirajamanjula,P. "Development of a Universal controller for converter based Switched Reluctance Motors", International Conference on Power Electronics and Renewable Energy Systems (ICPERES2014) in associations with Springer and IEEE", April 2014,Rajalakshmi Engg College Chennai, (LNEE Series).

[44] Dr.P.Palanivel, S.Sambath and C.Subramani "Optimal Placement of Distributed Generation for Power Quality Improvement in Transmission Lines", International conference on recent trends in engineering, EGS Pillai Engineering college, Nagapatinam, May 2014.

[45] Dr.P.Palanivel and S.Sambath "Energy Conservation by Loss reduction due to DG", "IEEE International conference on Green Computing, communication and Electrical Engineering-ICGCCEE'14", Mar 2014,Dr NGP college of engineering, Coimbatore.

[46] Dr.P.Palanivel Avirajamanjula,P."Design of Switched Reluctance Motor and development of universal controller". International conference on Swarm Evolutionary memetic and Fuzzy and neural computing (SEMCCO&FANCCO-2013), Dec 2013, SRM University, Chennai.

[47] P.Palanivel and Subhransu Sekhar Dash "Control of Three Phase Cascaded Multilevel Inverter Using Various Novel Pulse Width Modulation Techniques," Proc. WSEAS Latest trends on Circuits 2010 conf , pp.70-79. Corfu Islan, Greece, July 2010.

[48] P.Palanivel and Subhransu Sekhar Dash "Control of three phase cascaded multilevel inverter using various switched frequency optimal pulse width modulation techniques," Proc. IEEE TENCON 2010. conf, Japan, November 2010.

[49] P.Palanivel and Subhransu Sekhar Dash "Implementation of THD and Output Voltage of Three Phase Cascaded Multilevel Inverter Using Multicarrier Pulse Width Modulation Techniques," Proc. IEEE ICSET 2010.conf, Srilanka, December 2010.

[50] P.Palanivel and Subhransu Sekhar Dash "Multicarrier Pulse Width Modulation Methods Based Three Phase Multilevel Inverter with over Modulation and Low Modulation Indices," Proc. IEEE TENCON 2009.conf, Singapore, November 2009.

[51] P.Palanivel and Subhransu Sekhar Dash "A FPGA based variable switching frequency multicarrier pulse width modulation for three phase cascaded multilevel inverter," Proc. IEEE INCACEC-2009 conf, Kongu Engineering College, Erode, India, June 2009.

[52] P.Palanivel and Subhransu Sekhar Dash "Multicarrier Pulse Width Modulation Methods Based Three Phase Multilevel Inverter," Proc. ICEESPEEE-2009 conf, SRM University, chennai, India, April 2009.

Patent Puublished

1. Efficient VLSI design for low-power digital signal Processing applications with power electronics Integration, 22/03/2024.
2. Optimizing Energy Conversion Efficiency in Organic Solar Cells Using AI Technologies, 17/01/2025.

NPTEL Courses Completion

1. Teaching and Learning in Engineering (TALE) – Elite certification – Jan/Feb 2022.
2. Teaching and Learning in General Programs (TALG) – Elite + Silver certification – Jul/Aug 2022.
3. Patent Drafting for Beginers - Elite certification – Jul/Aug 2023.
4. Outcome based Pedagogic pronciples of Effective Teaching -Elite certification – Feb/Mar 2024.
5. Introduction to Internet of Things - Elite + Silver certification – Jul/Oct 2024.
6. Introduction to Industry 4.0 and Industrial Internet of Things - + Silver certification – Feb/Mar 2025.
7. OBE and Accreditation - Elite + Silver certification – Jul/Oct 2025

Foreign country visited

- Tokyo, Fukuka – Japan – To present the research paper in TENCON 2010
- Colombu, Kandy – Srilanka – To present the research paper in ICSET 2010
- Adama – Ethiopia – worked Adama science and technology university

Membership

Institution of Engineers (MIE) - Life Member : M 1437083

Funding

- Received Travel grant from DST, to present the research paper in IEEE TENCON 2010, Fukuka, Japan.
- Received funded project from Adama Science and Technology University, Titled “Design and Implementation of Phase Shifted carrier PWM based Five level Inverter for Renewable Energy Sources Applications”.