# Members from other University / Institutions (preferably within Tamil Nadu)

## Panel Member 6- Dr.G. Arun kumar

| | Member 6 |
|---|---|
| Name | Dr. G. Arun kumar |
| Designation | Associate Professor |
| Department | Department of Energy and Power Electronics |
| Name of the org/inst. | Vellore Institute of Technology |
| Place | Vellore |
| Pincode | 632014 |
| Whether affiliated to anna univ or not | No |
| Mobile | 9994247789<br>8668175252 |
| e-mail | arunkumar.gopal@gmail.com,<br>g.arunkumar@vit.ac.in |
| Area of specialization | Grid connected Inverters, DC to DC Converters, and Electric Vehicles. |

# Members from other University / Institutions (preferably within Tamil Nadu)

## Panel Member 6- Dr.G. Arun kumar

## List of Scopus Indexed Publications

| S.no. | Title | Year |
|---|---|---|
| 1 | Design and implementation of a novel asymmetrical multilevel inverter optimal hardware components<br>C Dhanamjayulu, G Arunkumar, B Jaganatha Pandian, S Padmanaban<br>International Transactions on Electrical Energy Systems 30 (2), e12201 | **2020** |
| 2 | A rule-based approach for improvement of autonomous operation of hybrid microgrids<br>SHC Cherukuri, B Saravanan, G Arunkumar<br>Electrical Engineering, 1-16 | **2020** |
| 3 | Design and Implementation of Multilevel Inverters for Fuel Cell Energy Conversion System<br>C Dhanamjayulu, SR Khasim, S Padmanaban, G Arunkumar, ...<br>IEEE Access 8, 183690-183707 | **2020** |
| 4 | Implementation of high-gain nonisolated DC-DC converter for PV-fed applications<br>T Arunkumari, V Indragandhi, G Arunkumar, P Sanjeevikumar, ...<br>International Transactions on Electrical Energy Systems 30 (1), e12165 | **2020** |
| 5 | Experimental evaluation of the performance of virtual storage units in hybrid micro grids<br>SHC Cherukuri, B Saravanan, G Arunkumar<br>International Journal of Electrical Power & Energy Systems 114, 105379 | **2020** |
| 6 | Linear control of wireless charging for electric bicycles<br>PK Joseph, D Elangovan, G Arunkumar<br>Applied Energy 255, 113898 | **2019** |
| 7 | An overview of residential demand side management strategies<br>SHC Cherukuri, B Saravanan, G Arunkumar<br>2019 Innovations in Power and Advanced Computing Technologies (i-PACT) 1, 1-6 | **2019** |
| 8 | Overview of Different WPT Standards and a Simple Method to Measure EM Radiation of an Electric Vehicle Wireless Charger<br>PK Joseph, D Elangovan, G Arunkumar, AA Zekry<br>2019 IEEE MTT-S International Microwave and RF Conference (IMARC), 1-8 | **2019** |
| 9 | Reduction of Main-Grid Dependence in Future DC Micro-Grids Using Electric | **2019** |

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|---|---|---|
| | Springs<br>SHC Cherukuri, S Balasubramanian, S Padmanaban, MS Bhaskar, ...<br>2019 International Conference on Electrical Drives & Power Electronics (EDPE … | |
| 10 | Multiple Input Interleaved Boost Converter for Non-Conventional Energy Applications<br>GK Kumar, G Arunkumar<br>2019 Innovations in Power and Advanced Computing Technologies (i-PACT) 1, 1-5 | **2019** |
| 11 | T. Arunkumari, V. Indragandhi, Arunkumar G and etal "Implementation of High gain non-isolated DC-DC converter for PV fed Applications" in its current form for publication in International Transactions on Electrical Energy Systems, 2019 Accepted. | 2019 |
| 12 | G.Arun kumar, D.Elangovan, P.Sanjeevikumar, Jens Bo Holm-Nielsen, Zbigniew Leonowicz and Peter K. Joseph," DC Grid for Domestic Electrification", Energies 2019, 12, 2157; doi:10.3390/en12112157Received: 26 April 2019; Accepted: 27 May 2019; Published: 5 June 2019, pp.1-12. | 2019 |
| 13 | Dhanamjayulu, C., Arunkumar, G., Pandian, B. J., Kumar, C. R., Kumar, M. P., Jerin, A. R. A., & Venugopal, P. (2019). Real-Time Implementation of a 31-Level Asymmetrical Cascaded Multilevel Inverter for Dynamic Loads. *IEEE Access*, *7*, 51254-51266. | |
| 14 | Joseph, P. K., Devaraj, E., & Arunkumar, G,. Overview of wireless charging and vehicle-to-grid integration of electric vehicles using renewable energy for sustainable transportation. *IET Power Electronics*. | |
| 15 | Dhanamjayulu, C, Pandey, S, Sarraf, N, Agrawal, V, Arunkumar, G. " Smart water flow monitoring and controlling system using HC-05 bluetooth module" International Journal of Innovative Technology and Exploring Engineering, 2018, pp. 46-51 | 2018 |
| 16 | Bhattacharjee, Abhinav, Sangit Saha, D. Elangovan, and G. Arunkumar. "Naturally Clamped, Isolated, High-Gain DC–DC Converter with Voltage Doubler for Battery Charging of EVs and PHEVs." In Advances in Power Systems and Energy Management, pp. 439-450. Springer, Singapore, 2018. | |
| 17 | Umahsnakar, S, Arunkumar, G, Sivapriyan, R. "Comparative analysis of solar photovoltaic cell models." Proceedings of the 2017 International Conference on Smart Technology for Smart Nation, SmartTechCon 2017, pp. 46-51. | 2017 |
| 18 | Elangovan, D, V. Karthigeyan, B. Subhanu, M. Ashwin, and G. Arunkumar. "Design and modelling of high gain DC-DC converters for fuel cell hybrid electric vehicles." In IOP Conference Series: Materials Science and Engineering, vol. 263, no. 5, p. 052004. IOP Publishing, 2017. | |
| 19 | Narendranath, K. V., Y. Viswanath, K. Suresh Babu, G. Arunkumar, and D. Elangovan. "Solar fed DC-DC single ended primary inductance converter for low power applications." In IOP Conference Series: Materials Science and | |

# Members from other University / Institutions (preferably within Tamil Nadu)

## Panel Member 6- Dr.G. Arun kumar

| | | |
|---|---|---|
| | Engineering, vol. 263, no. 5, p. 052009. IOP Publishing, 2017. | |
| 20 | Jeevargi, Chetankumar, Anuj Lodhi, Allu Sateeshkumar, D. Elangovan, and G. Arunkumar. "Design and simulation of front end power converter for a microgrid with fuel cells and solar power sources." In IOP Conference Series: Materials Science and Engineering, vol. 263, no. 5, p. 052003. IOP Publishing, 2017. | 2017 |
| 21 | Mukhopadhyay, Debraj, Subhrajit Das, G. Arunkumar, D. Elangovan, and G. Ragunath. "Design and dSpace interfacing of current fed high gain dc to dc boost converter for low voltage applications." In IOP Conference Series: Materials Science and Engineering, vol. 263, no. 5, p. 052006. IOP Publishing, 2017 | |
| 22 | Saha, Soumya, Sahityika Poddar, Kudzai B. Chimonyo, G. Arunkumar, and D. Elangovan. "PV source based high voltage gain current fed converter." In IOP Conference Series: Materials Science and Engineering, vol. 263, no. 5, p. 052014. IOP Publishing, 2017. | |
| 23 | Elangovan, D., R. Archana, V. J. Jayadeep, M. Nithin, and G. Arunkumar. "DC grid for home applications." In IOP Conference Series: Materials Science and Engineering, vol. 263, no. 5, p. 052005. IOP Publishing, 2017. | |
| 24 | Metha, Manish Milind, Sanjay Tutki, Aju Rajan, D. Elangovan, and G. Arunkumar. "Design and implementation of current fed DC-DC converter for PHEV application using renewable source." In IOP Conference Series: Materials Science and Engineering, vol. 263, no. 5, p. 052011. IOP Publishing, 2017. | 2017 |
| 25 | Metha, Manish Milind, Sanjay Tutki, Aju Rajan, D. Elangovan, and G. Arunkumar. "Modelling and simulation of current fed dc to dc converter for PHEV applications using renewable source." In IOP Conference Series: Materials Science and Engineering, vol. 263, no. 5, p. 052010. IOP Publishing, 2017. | |
| 26 | Elangovan, D., Arunkumar, G., Indragandhi, V., Venkatesh, S., Kannan, R. "Design and analysis of flyback micro inverter for integration of fuel cells with single phase grid." International Journal of Mechanical Engineering and Technology, 8(11), pp. 220-228, 2017. | |
| 27 | Arunkumar, G., D. Elangovan, V. Indragandhi, G. Gokulakrishnan, and C. Dhanamjayulu. "ANALYSIS, MODELING AND EXPERIMENTATION OF QUADRUPLER BOOST CONVERTER FOR RENEWABLE SOURCE APPLICATIONS.", International Journal of Mechanical Engineering and Technology, 8(10), pp. 768-773, 2017. | |
| 28 | Arunkumar, G., Baagwala, A.F., Harini, K., Anilkumar, K., Elangovan, D. "Interfacing of two stage dc to dc boost converter with dspace-1104 for low power applications." Journal of Advanced Research in Dynamical and Control Systems, 9(Special Issue 6), pp. 1280-1294., 2017. | |
| 29 | Patra, Jagadish Kumar, Soumya Bhanu Mohanty, H. M. Tania, D. Elangovan, | |

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|---|---|---|
| | and G. Arunkumar. "Application of Bio-Inspired MPPT Techniques for Photovoltaic System." In Emerging Trends in Electrical, Communications and Information Technologies: Proceedings of ICECIT-2015, pp. 345-352. Springer Singapore, 2017. | |
| 30 | Elangovan, D., Archana, R., Jayadeep, V.J., Mohan, N., Arunkumar, G. "Dc grid for rural electrification." Journal of Advanced Research in Dynamical and Control Systems, 9(Special Issue 6), pp. 1265-1279, 2017. | 2017 |
| 31 | Tania, H. M., Jagadish Kumar Patra, Vinson John, D. Elangovan, and G. Arunkumar. "Four Level Boost Converter for Linear Loads." In Emerging Trends in Electrical, Communications and Information Technologies: Proceedings of ICECIT-2015, pp. 369-376. Springer Singapore, 2017. | |
| 32 | Arunkumar, G., Poddar, S., Saha, S., Chimonyo, K.B., Elangovan, D. "Multilevel inverter with reduced number of switches for electric vehicle application." Journal of Advanced Research in Dynamical and Control Systems, 9(Special Issue 6), pp. 1308-1317, 2017. | |
| 33 | Arunkumar, G., Jeevargi, C., Lodhi, A., Kumar, A.S., Elangovan, D., Venkatesh, S. "Modeling and implementation of a front end power converter for a microgrid with fuel cells and solar sources." Journal of Advanced Research in Dynamical and Control Systems, 9(Special Issue 6), pp. 1295-1307, 2017 | |
| | Arunkumar, G., D. Elangovan, Jagadish Kumar Patra, and H. M. Tania. "A differential unipolar trailing edge modulated boost inverter for solar applications." In Computation of Power, Energy Information and Commuincation (ICCPEIC), 2016 International Conference on, pp. 468-471. IEEE, 2016. | 2016 |
| | Arunkumar, G., D. Elangovan, Jagadish Kumar Patra, H. M. Tania, Cynthia James, and Saumya Vats. "A solar based SEPIC converter for street lighting application." In Computation of Power, Energy Information and Commuincation (ICCPEIC), 2016 International Conference on, pp. 482-486. IEEE, 2016. | |
| | Arunkumar, G., and I. Gnanambal. "Genetic Algorithm Based Voltage Mode Controlled Boost Inverter-Using Small Signal Modelling." Journal of Computational and Theoretical Nanoscience 13, no. 7 (2016): 4614-4624, 2016. | |
| | Elangovan, D., G. Arunkumar, H. M. Tania, and Jagadish Kumar Patra. "Modelling and Simulation of a Lead Acid Battery for Traction Applications." International Journal of Vehicle Structures & Systems 8, no. 1 (2016): 50, 2016. | |
| | Arunkumar, G., Gnanambal, I. "Modeling of boost inverter." International Journal of Applied Engineering Research, 10(16), pp. 37028-37033, 2015. | 2015 |
| | Arunkumar, G., I. Gnanambal, P. C. Karthik, and S. Naresh. "Proportional and Integral Constants Optimization Using Bacterial Foraging Algorithm for Boost Inverter." Energy Procedia 90 (2016): 535-539, 2015 | |
| | Arunkumar, G., Gnanambal, I., Naresh, S. "Boost inverter: A new proportional | |

# Members from other University / Institutions (preferably within Tamil Nadu)

## Panel Member 6- Dr.G. Arun kumar

| | | |
|---|---|---|
| | integral control strategy for resistive and motor loads using genetic algorithm." International Journal of Applied Engineering Research, 10(16), pp. 37022-37027, 2015. | |
| | Arunkumar, G., Gnanambal, I., Naresh, S., Karthik, P.C. and Patra, J.K., 2016. Parameter Optimization of Three Phase Boost Inverter Using Genetic Algorithm for Linear Loads. Energy Procedia, 90, pp.559-565, 2015. | |
| | Akila, P., G. Sanjay, and G. Arunkumar. "12/48V two level DC-DC boost converter using DSPACE." In Computation of Power, Energy, Information and Communication (ICCPEIC), 2014 International Conference on, pp. 264-267. IEEE, 2014. | 2014 |
| | Vinodhini, R., G. Rajitha, and Kiran Kumar. "dSPACE based 12/24v closed loop boost converter for low power applications." In Computation of Power, Energy, Information and Communication (ICCPEIC), 2014 International Conference on, pp. 213-217. IEEE, 2014. | |

## List of Journal publication

| S.no. | Title | Year |
|---|---|---|
| **1** | Investigation of cascaded multilevel inverter based dynamic voltage restorer using fuzzy control",Praveen Kumar, M.S.V., Rakesh R., Dhanamjayulu, C., Arunkumar, G.,Meikandasivam, Journal of Advanced Research in Dynamical and Control Systems, ISSN no. 1943-023X, Vol.10, pp.837- 843, 2018 | **2018** |
| **2** | Arunkumar G., Poddar S., Saha S., Chimonyo K.B., Elangovan D, " Multilevel inverter with reduced number of switches for electric vehicle", Journal of Advanced Research in Dynamical and Control , ISSN no. 1943-023X , Vol. 9, pp. 130- 1317,2017 | **2017** |
| **3** | Mohanty S.B., Eswar K.M.R., Elangovan D., Arunkumar G.," Simulation and experimentation of fourth order DC-DC boost converter for renewable energy source applications", International Journal of Vehicle Structures and Systems, ISSN no. 0975-3060, Vol.8, issue-1, pp. 54-57, 2016. | **2016** |
| **4** | Elangovan D., Arunkumar G., Gudipalli A., Srihari M.," Interleaved soft switched current fed full bridge dc-dc converter for fuel cell applications", Global Journal of Pure and Applied Mathematics, ISSN no. 0973-1768, Vol.11, issue-5, pp. 3727- 3741, 2015. | **2015** |

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## Panel Member 6- Dr.G. Arun kumar

## List of Non-Scopus Indexed Journal Publication

| S.no. | Title | Year |
|---|---|---|
| 1 | Rasin K R, G. Arunkumar, "GSM Based Remote monitoring of Variable Frequency Drives", International Research Journal of Engineering and Technology (IRJET), ISSN: 2395 -0056, 18761119, Volume: 04 Issue: 04, Apr - **2017** | 2017 |
| 2 | Rasin K R, G. Arunkumar, "Regeneration in Variable Frequency Drives and Energy saving Methods", International Research Journal of Engineering and Technology (IRJET), ISSN: 2395 -0056, 18761119, Volume: 04 Issue: 03, Mar - **2017**. | |
| 3 | Arunkumar, G, & Gnanambal, I **2016**, 'Utilization of bacterial foraging algorithm for optimization of boost inverter parameters', Circuits and Systems, vol 7, no. 8, pp 1430–1440. ISSN : 2153-1285. | 2016 |
| 4 | Monika Verma. Arun kumar G, Ganesh Nagarajan, "Electromagnetic And Thermal (Lumped Circuit) Analysis Of Internal Permanent Magnet Synchronous Machine" (**2016**) Global Journal of Pure and Applied Mathematics, ISSN 0973-1768 Volume 11, Number 5, pp. 3727-3741. | |

# Members from other University / Institutions (preferably within Tamil Nadu)

## Panel Member 6- Dr.G. Arun kumar

## List of conference publications

1. Presented a Paper titled “Modeling and analysis of Multi input Bidirectional DC-DC Converter” in the International Conference on Science, Engineering and Technology held during Fall 2017-2018 at VIT University, Vellore.
2. Presented a paper on “DC Micro-grid System for Rural Electrification” at International Conference on Energy, Communication, Data Analytics and Soft Computing-IEEE-SKREC which was held at Chennai, 01-Aug-2017.
3. Presented a paper on “Design of Circuit for Battery Charging of Electric Vehicles” at International Conference on Energy, Communication, Data Analytics and Soft Computing-IEEE-SKREC which was held at Chennai, 01-Aug-2017.
4. Presented a paper on “Analysis, Modelling And Experimentation Of Quadrupler Boost Converter For Renewable Source Applications” at International Conference on Recent Trends in Engineering and Material Sciences (ICEMS-2016) which was held at Jaipur between 17th to 19th of March 2016.
5. Presented a Paper titled “Phase Shifted Full Bridge DC - DC Converter” in the International Conference on Science, Engineering and Technology held during Fall 2017-2018 at VIT University, Vellore.
6. Presented a Paper titled “A Non-Isolated Multi-Input Multi-Output Boost Converter” in the International Conference on Science, Engineering and Technology held during Fall 2017-2018 at VIT University, Vellore.
7. Presented a Paper titled “MULTIPLE INPUT DC TO DC CONVERTER” in the International Conference on Science, Engineering and Technology held during winter 2016-2017 at VIT University, Vellore.
8. Presented a Paper titled “DSPACE INTERFACING OF TWO STAGE DC to DC BOOST CONVERTER” in the International Conference on Science, Engineering and Technology held during winter 2016-2017 at VIT University, Vellore.
9. Presented a Paper titled “ANALYSIS OF KY CONVERTER” in the International Conference on Science, Engineering and Technology held during winter 2016-2017 at VIT University, Vellore.
10. Presented a Paper titled “DC-AC CONVERSION USING MLI WITH REDUCED NO. OF SWITCHES” in the International Conference on Science, Engineering and Technology held during winter 2016-2017 at VIT University, Vellore.
11. Presented a Paper titled “Design and D-space interfacing Of Current fed high gain interleaved DC-DC Boost Converter for Low Voltage Applications” in the International Conference on Science, Engineering and Technology held during winter 2016-2017 at VIT University, Vellore.
12. Presented a Paper titled “Single ended primary inductor converter for 220 volt applications” in the International Conference on Science, Engineering and Technology held during winter 2016-2017 at VIT University, Vellore.

# Members from other University / Institutions (preferably within Tamil Nadu)

## Panel Member 6- Dr.G. Arun kumar

13. Presented a Paper titled “Design Of Current fed high gain interleaved DC-DC Boost Converter For Street light applications and its implementation” in the International Conference on Science, Engineering and Technology held during Fall 2016-2017 at VIT University, Vellore.
14. Presented a Paper titled “PV SOURCE BASED HIGH VOLTAGE GAIN CURRENT FED CONVERTER” in the International Conference on Science, Engineering and Technology held during Fall 2016-2017 at VIT University, Vellore.
15. Presented a Paper titled “TWO STAGE DC-DC BOOST CONVERTER WITH RIPPLE FREE OPERATION FOR LOW POWER APPLICATION” in the International Conference on Science, Engineering and Technology held during Fall 2016-2017 at VIT University, Vellore.
16. Presented a Paper titled “Solar fed DC-DC SEPIC converter for low power applications” in the International Conference on Science, Engineering and Technology held during Fall 2016-2017 at VIT University, Vellore.
17. Presented a paper on “Soft Switched Zero Voltage Transition PWM DC-DC Converter for Renewable Energy Applications” at International Conference on Recent Trends in Engineering and Material Sciences (ICEMS-2016) which was held at Jaipur, 17$^{th}$ to 19$^{th}$ of March 2016.
18. Presented a paper on “Practical Implementation of a 72 V DC microgrid For Domiciliary Applications” at International Conference on Recent Trends in Engineering and Material Sciences (ICEMS-2016) which was held at Jaipur between 17th to 19th of March 2016.
19. Presented a paper on “Parameter Optimization of Three Phase Boost Inverter Using Genetic Algorithm for Linear Loads” at International Conference on Advances in Energy Research-2015 which was held at IIT Bombay between 15$^{th}$ to 17$^{th}$ December 2015.
20. Presented a paper on “Proportional and Integral constants Optimization Using Bacterial Foraging Algorithm for Boost Inverter” at at International Conference on Advances in Energy Research-2015 *which was held at IIT Bombay between 15$^{th}$ to 17$^{th}$ December 2015*.
21. Presented a Paper titled “60/220V MODIFIED BUCK-BOOST CONVERTER FOR LAMP LOADS” in the International Conference on Science, Engineering and Technology held during winter 2015-2016 at VIT University, Vellore.
22. Presented a Paper titled “48/110V SEPIC CONVERTER FOR LAMP LOADS” in the International Conference on Science, Engineering and Technology held during winter 2015-2016 at VIT University, Vellore.
23. Presented a Paper titled “Step up isolated efficient single switch DC-DC converter for renewable source” in the International Conference on Science, Engineering and Technology held during winter 2015-2016 at VIT University, Vellore.
24. Presented a Paper titled “LQR CONTROL FOR A BOOST CONVERTER” in the International Conference on Science, Engineering and Technology held during winter 2015-2016 at VIT University, Vellore.
25. Presented a paper on “Boost Inverter: A new proportional Integral Control Strategy using standard genetic algorithm” in the International Conference on Electrical, Electronics and computer Engineering on 11$^{th}$ and 12$^{th}$ March, 2015.

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26. Presented a Paper titled “ARDUINO BASED SOLAR CHARGE CONTTROLLER” in the International Conference on Science, Engineering and Technology held during Fall 2015-2016 at VIT University, Vellore.
27. Presented a Paper titled “SINGLE PHASE DC-AC HALF BRIDGE INVERTER WITH VARIOUS PWM TECHNIQUES FOR LINEAR LOADS” in the International Conference on Science, Engineering and Technology held during Fall 2015-2016 at VIT University, Vellore.
28. Presented a Paper titled “Single switch buck boost converter” in the International Conference on Science, Engineering and Technology held during Fall 2015-2016 at VIT University, Vellore.
29. Presented a Paper titled “KY BOOST CONVERTER” in the International Conference on Science, Engineering and Technology held during winter 2014-2015 at VIT University, Vellore.
30. Presented a Paper titled “NON ISOLATED STEP UP DC-DC CONVERTERS ADOPTING SWITCHED CAPACITOR CELL” in the International Conference on Science, Engineering and Technology held during winter 2014-2015 at VIT University, Vellore.
31. Presented a Paper titled “FOUR LEVEL BOOST CONVERTER FOR LINEAR LOADS” in the International Conference on Science, Engineering and Technology held during winter 2014-2015 at VIT University, Vellore.
32. Presented a Paper titled “ANALYSIS OF SINGLE PHASE H-BRIDGE INVERTER WITH VARIOUS LOADS” in the International Conference on Science, Engineering and Technology held during winter 2014-2015 at VIT University, Vellore.
33. Presented a Paper titled “FOURTH ORDER BOOST CONVERTER: ANALYSIS, DESIGN AND EXPERIMENTATION” in the International Conference on Science, Engineering and Technology held during winter 2014-2015 at VIT University, Vellore.
34. Presented a Paper titled “ISOLATED DC-DC CONVERTER USING MULTIPLE INPUT SOURCES WITH A SINGLE ENDED OUTPUT” in the International Conference on Science, Engineering and Technology held during winter 2014-2015 at VIT University, Vellore.
35. Presented a Paper titled “A Novel Methodology to Implement Non-Ideal Boost Inverter Using Sliding-PI Controller for Low Power Applications” in the International Conference on Science, Engineering and Technology held during Fall 2014-2015 at VIT University, Vellore.
36. Presented a Paper titled “High Quality Boost Inverter for Low Power Applications” in the International Conference on Science, Engineering and Technology held during Fall 2014-2015 at VIT University, Vellore.
37. Presented a Paper titled “PI Controller Based Solar PV Fed Boost Inverter for Linear Loads” in the International Conference on Science, Engineering and Technology held during Fall 2014-2015 at VIT University, Vellore.
38. Presented a Paper titled “Study of Single Phase H-Bridge Inverter Using Various Sinusoidal PWM Techniques” in the International Conference on Science, Engineering and Technology held during Fall 2014-2015 at VIT University, Vellore.
39. Presented a Paper titled” Solar fed DC to AC boost inverter for low power applications” in the International Conference on Science, Engineering and Technology held during Fall 2014-2015 at VIT University, Vellore.

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40. Participated and presented a paper entitled “KY BOOST CONVERTER” in the International conference on “Science, Engineering and Technology(SET)” held during Winter sem 2014-2015 at VIT University.
41. Participated and presented a paper entitled “NON ISOLATED STEP UP DC-DC CONVERTERS ADOPTING SWITCHED CAPACITOR CELL” in the International conference on “Science, Engineering and Technology (SET)” held during Winter sem 2014-2015 at VIT University.
42. Participated and presented a paper entitled “FOUR LEVEL BOOST CONVERTER FOR LINEAR LOADS” in the International conference on “Science, Engineering and Technology (SET)” held during Winter sem 2014-2015 at VIT University.
43. Participated and presented a paper entitled “ANALYSIS OF SINGLE PHASE H-BRIDGE INVERTER WITH VARIOUS LOADS” in the International conference on “Science, Engineering and Technology (SET)” held during Winter sem 2014-2015 at VIT University.
44. Participated and presented a paper entitled “FOURTH ORDER BOOST CONVERTER: ANALYSIS, DESIGN AND EXPERIMENTATION” in the International conference on “Science, Engineering and Technology (SET)” held during Winter sem 2014-2015 at VIT University.
45. Participated and presented a paper entitled “ISOLATED DC-DC CONVERTER USING MULTIPLE INPUT SOURCES WITH A SINGLE ENDED OUTPUT” in the International conference on “Science, Engineering and Technology (SET)” held during Winter sem 2014-2015 at VIT University.
46. Participated and presented a paper entitled “A Novel Methodology to Implement Non-Ideal Boost Inverter Using Sliding – PI Controller” in the 8$^{th}$ International conference on “Science, Engineering and Technology (SET)” held between May 6$^{th}$ and 7$^{th}$, 2014 at VIT University.
47. Participated and presented a paper entitled “Parameter Optimization using Bacterial Foraging Algorithm for Non –Ideal boost Inverter” in the 8$^{th}$ International conference on “Science, Engineering and Technology (SET)” held between May 6$^{th}$ and 7$^{th}$, 2014 at VIT University.
48. Participated and presented a paper entitled “Genetic Algorithm Based PI Controller for Non-Ideal Boost Inverter” in the 8$^{th}$ International conference on “Science, Engineering and Technology (SET)” held between May 6$^{th}$ and 7$^{th}$, 2014 at VIT University.
49. Won “Best paper Award ” for presenting a paper entitled “Genetic Algorithm Based PI Controller for Non-Ideal Boost Inverter” in the 8$^{th}$ International conference on “Science, Engineering and Technology(SET)” held between May 6$^{th}$ and 7$^{th}$, 2014 at VIT University.
50. Presented a paper titled “Modelling of Boost Inverter” in the National Conference on “Advancement in power Electronics and Industrial Drives” organised at Government College of Engineering, Salem on 7$^{th}$ March, 2013.
51. Presented a paper titled “Using DSPACE12/48V Two Level DC-DC Boost Converter” in the INTERNATIONAL CONFERENCE ON COMPUTATION OF POWER, ENERGY, INFORMATION AND COMMUNICATION (ICCPEIC), 2014.
52. Presented a paper titled “dSPACE Based 12/24v Closed Loop Boost Converter For Low Power Applications” in the INTERNATIONAL CONFERENCE ON COMPUTATION OF POWER, ENERGY, INFORMATION AND COMMUNICATION (ICCPEIC),2014.

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53. Participated and presented a paper entitled “A Study of Slip-Power Recovery Schemes with a Buck DC Voltage Intermediate Circuit and Reduced Harmonics on the Mains by various PWM Techniques” in the International conference on “Science, Engineering and Technology (SET)” held during Fall sem 2013-2014 at VIT University.
54. Participated and presented a paper entitled “12/48V TWO LEVEL DC-DC BOOST CONVERTER USING dSPACE” in the International conference on “Science,Engineering and Technology(SET)” held during Fall sem 2013-2014 at VIT University.
55. Participated and presented a paper entitled “dSPACE based 12/24V Closed loop Boost Converter for Low Power Applications” in the International conference on “Science, Engineering and Technology (SET)” held during Fall sem 2013-2014 at VIT University.
56. Participated and presented a paper entitled “Novel DC-DC Multilevel Boost Converter” in the International conference on “Science, Engineering and Technology (SET)” held during Fall sem 2013-2014 at VIT University.
57. Participated and presented a paper entitled “Optimization of Parameters Using BFO Algorithm in Boost Inverter” in the International conference on “Science, Engineering and Technology (SET)” held during Fall sem 2013-2014 at VIT University.
58. Presented a Paper titled “Genetic algorithm based PI controller for non-ideal boost inverter” in the International Conference on Science, Engineering and Technology held during Winter 2013-2014 at VIT University, Vellore.
59. Presented a Paper titled “Parameter Optimization Using Bacterial Foraging Algorithm for Non-ideal Boost Inverter” in the International Conference on Science, Engineering and Technology held during winter 2013-2014 at VIT University, Vellore.
60. Presented a paper in the technical session on Oral Presentation titled “Parameter Optimization Using BFOA for Boost Inverter” in the 7$^{th}$ International Conference on Science, Engineering and Technology at VIT University held on November 14$^{th}$ and 15$^{th}$, 2013.
61. Presented a paper in the technical session on Oral Presentation titled “Parameter Optimization Using GA for Boost Inverter” in the 7$^{th}$ International Conference on Science, Engineering and Technology at VIT University held on November 14$^{th}$ and 15$^{th}$, 2013