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#### **PUBLICATIONS – JOURNALS (11)**

1. Kola Muralikumar and P. Ponnambalam “Analysis of Cascaded Multilevel Inverter with a Reduced Number of Switches for Reduction of Total Harmonic Distortion” IETE Journal of Research Taylor and Francis, 2020.
2. Murthy Priya, Pathipooranam Ponnambalam, Kola Muralikumar, “Modular-multilevel converter topologies and applications – a review”, IET Power Electronics, vol. 12, no. 2, pp. 170-183, 20 2 2019.
3. ChallaBabu, P Ponnambalam, “The theoretical performance evaluation of hybrid PV-TEG system”, Energy Conversion and Management 173 (2018) Elsevier, 450-460.
4. ChallaBabu, P Ponnambalam, “The role of thermoelectric generators in the hybrid PV/T systems: A review”, Energy Conversion and Management 151 (2017) Elsevier, 368-385.
5. P Ponnambalam, Muralikumar.K, Vasundhara.P, Sreejith.S, Challa. Babu, “Fuzzy Controlled Switched Capacitor Boost Inverter” Energy Procedia 117 (2017) Elsevier, 909–916.
6. P.Ponnambalam, M. Praveenkumar, ChallaBabu, P. Dhambi Raj, “Analysis of Stacked Multicell Converter with Fuzzy Controller”, Advances in Intelligent Systems and Computing (Springer), Vol 546, pp 318-330, 2017.
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8. P.Ponnambalam, M. Praveenkumar, V. Surendar, G. Gokulakrishnan, “Fuzzy Controller for flying capacitor multicell inverter”, Advances in Intelligent Systems and Computing (Springer), Vol 436, pp 521-535, 2016.
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10. Sreejith. S, Velamuri Suresh, P.Ponnambalam, “Static Economic Dispatch Incorporating UPFC using Artificial Bee Colony Algorithm”, Advances in Intelligent Systems and Computing (Springer), Vol 436, pp 757-769, 2016.
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#### **PUBLICATIONS – INTERNATIONAL CONFERENCES (31)**

1. M. Priya, K. Muralikumar, P. Ponnambalam, “VSC Based Modular Multilevel Converter For Grid Applications Using PI Controller”, 2019 Innovations in Power and Advanced Computing Technologies, i-PACT 2019, VIT Vellore.
2. D. Dinesh kumar, ChallaBabu, P. Ponnambalam, “A Flyback Partial Power Processing Converter based Solar PV Systems Interfacing the Grid”, 2019 Innovations in Power and Advanced Computing Technologies, i-PACT 2019, VIT Vellore.

3. T.Y. Saravanan, P. Ponnambalam, "A Bidirectional Converter for Integrating DVR-UCap to Improve Voltage Profile Using Fuzzy Logic Controller", 2018, International Conference on Soft Computing for Problem Solving, SocProS 2018, VIT Vellore.
4. M. Priya, P. Ponnambalam, K. Muralikumar, "THD Analysis of Flying-Capacitor Multilevel Converter Using Fuzzy Logic Controller", 2018, International Conference on Soft Computing for Problem Solving, SocProS 2018, VIT Vellore.
5. K. Muralikumar, P. Ponnambalam, M. Priya, "Implementation of Fuzzy-Based Multicarrier and Phase Shifted PWM Symmetrical Cascaded H-Bridge Multilevel Inverter", 2018, International Conference on Soft Computing for Problem Solving, SocProS 2018, VIT Vellore.
6. K. Muralikumar, P. Ponnambalam, "Renewable Energy Harnessing by Implementing a Three-Phase Multilevel Inverter with Fuzzy Controller", 2018, International Conference on Soft Computing for Problem Solving, SocProS 2018, VIT Vellore.
7. K. Muralikumar, C. Sivakumar, Ankit Rautela, P. Ponnambalam, "Fuzzy Based Cascaded Multilevel Inverter Topology with Galvanic Isolation", 2018, International Conference on Soft Computing for Problem Solving, SocProS 2018, VIT Vellore.
8. K. Muralikumar, P. Ponnambalam, "Closed Loop Control of Diode Clamped Multilevel Inverter Using Fuzzy Logic Controller", 2018, International Conference on Soft Computing for Problem Solving, SocProS 2018, VIT Vellore.
9. Jyothi, P. Ponnambalam, "Hybrid Variable Length Partial Pulse Modulation for Visible Light Communication", 2018, International Conference on Soft Computing for Problem Solving, SocProS 2018, VIT Vellore.
10. ChallaBabu, P. Ponnambalam, "PV Module Temperature Estimation by Using ANFIS", 2018, International Conference on Soft Computing for Problem Solving, SocProS 2018, VIT Vellore.
11. Y. Viswanath, K. Muralikumar, P. Ponnambalam, M. Praveenkumar, "Symmetrical cascaded switched-diode multilevel inverter with fuzzy controller", 2017, International Conference on Soft Computing for Problem Solving, SocProS 2017, IIT Bhubaneswar.
12. M. Praveenkumar, M. Manimozhi, P. Ponnambalam, G. Gokulakrishnan, "A Novel PID Controller Designed via Polynomial Approach for Stable/Unstable Second-Order Process with Time Delay", 2017, International Conference on Soft Computing for Problem Solving, SocProS 2017, IIT Bhubaneswar.
13. K. LeelaMadhav, ChallaBabu, AshutosMahapatra, "Fuzzy logic controller for nine level multi-level inverter with reduced number of switches", 2017 Innovations in Power and Advanced Computing Technologies, i-PACT 2017, VIT Vellore
14. Reddy, V.P, Muralikumar, K, Ponnambalam, P, Mahapatra, A. "Asymmetric 15-level multilevel inverter with fuzzy controller using super imposed carrier PWM", 2017 Innovations in Power and Advanced Computing Technologies, i-PACT 2017, VIT Vellore
15. P Ponnambalam, Muralikumar.K, Vasundhara.P, Sreejith.S, Challa. Babu, "Fuzzy Controlled Switched Capacitor Boost Inverter", 2017, 1st International Conference on Power Engineering, Computing and CONTROL, PECCON-2017, VIT Chennai
16. P.Ponnambalam, M. Praveenkumar, ChallaBabu, P. Dhambi Raj, "Analysis of Stacked Multicell Converter with Fuzzy Controller", 2016, International Conference on Soft Computing for Problem Solving, SocProS 2016, Thapar University, Patiala

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18. J. Gowri Shankar, J. Belwin Edward , P. Ponnambalam, K. Sathishkumar, “A Single Phase Hybrid Multilevel Inverter with High Step up DC-DC Converter for Photovoltaic System”, 2016, IEEE TENCON 2016 – Technologies for Smart Nation, Singapore
19. P.Ponnambalam, Aroul .K, Praveenkumar.M, Gokulakrishnan.G, Belwin, Gourishankar “Comparison of Fuzzy and MPC based Flying Capacitor Multicell Converter”, 2016, IEEE TENCON 2016 – Technologies for Smart Nation, Singapore
20. P.Ponnambalam, Aroul .K, Praveenkumar.M, Gokulakrishnan.G, “Analysis of fuzzy controller for reduced voltage source multicell converter”, 2016 IEEE 6th International Conference on Power Systems (ICPS), IIT Delhi
21. S. Sreejith, Velamuri Suresh, P.Ponnambalam, “Static Economic Dispatch Incorporating UPFC Using Artificial Bee Colony Algorithm”, 2015 International Conference on Soft Computing for Problem Solving, SocProS 2015, IIT Roorkee
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24. P.Ponnambalam, Saketh Dogga, Surendar.V, Praveenkumar. M, “Boost Derived Hybrid Converter Implementation Using Fuzzy controller”, 2015 IEEE International Conference on Technological Advancements in Power and Energy.

### **CONFERENCE ORGANIZED**

1. SocProS 2018 International conference organized at VIT Vellore, Tamilnadu, India during December 17 – 19, 2018

### **BOOKS EDITED**

1. Springer book on Soft Computing for Problem Solving 2018 Volume 1 and Volume 2