

**Mr. S.SATISH KUMAR B.E., M.E.(PhD)**  
**Assistant Professor/ EEE Department**  
**AMET Deemed to be University.**

**Email:** [satishkumar.s@ametuniv.ac.in](mailto:satishkumar.s@ametuniv.ac.in)

Orcid id : 0000-0002-5091-3698

Scopus id: 57197068248

<https://www.satishkumarsee.blogspot.com>



---

Mr S Satish Kumar, Assistant Professor in the Department of Electrical and Electronics Engineering. He has 18 years of well-honed teaching experience and many years in Research experience having knowledge across the domain of Power Electronics, Control system, Circuit theory and Design of Electrical Machines. He has guided more UG. and P.G Students in their Research project works. He had published 16 research papers in referred International and national journals and also 20 papers presented in International and National Conferences.

He received his B.E. Electrical and Electronics Engineering degree first class from Manonmaniam Sundaranar University, M.E. (Power Electronics and Industrial Drives) degree first class from Sathyabama Institute of Science and Technology.

He had Co-authored 1 book published by ESN Publications. In addition to his credentials, he has published 2 patents. He has been organized two international conferences, one national conference and 5 national level workshops.

### **List of Publication**

- J.S.Ashwin , D.Vani , Dr. P.Siva Perumal , S. Satish Kumar,“ Analyzing Reliability And Flooding Mechanism In Multi-Hop Wireless Networks”, International Journal of Aquatic Science , Vol 12(3), pp.579-584,2021.
- Satish kumar S, Dr M. Sasikumar and Kavitha Kumari K S A Novel Optimized Eleven Level Hybrid Cascaded Multi-Level Inverter” Grenze International Journal of Engineering and Technology, Jan 2021 pp852-859, 2021.

- P.Sivaperumal, Subranhsu Sekhar Dash , Sathish Kumar, J.S.Ashwin, “Fuzzy – Discrete wavelet Transform aided SCII based IDVR for Mitigating Power Quality Issues”, International Journal of Aquatic Science , Vol.12(3), pp.602-615, 2021.
- Satish Kumar S , Dr M. Sasikumar, Dr P Sivaperumal , JS Ashwin , Kavitha Kumari K S “Implementation Of A Simplified Nine Level Dc-Ac Inverter”, International Journal of Aquatic Science , Vol.12(3), pp.585-592, 2021.
- Satish kumar and Dr M. Sasikumar (2021) “Intelligent hybrid technique for cascaded multilevel inverter based three phase grid-tie hybrid power system: a WPSNN technique” Journal of Ambient Intelligence and Humanized Computing ISSN 1868-5137 DOI<https://doi.org/10.1007/s12652-020-02707-3>, 02 Jan 2021 (Springer)
- S.Satish kumar and Dr M. Sasikumar(2020) “Asymmetric hybrid multilevel inverter with reduced harmonic using hybrid modulation technique ” International Journal of Power Electronics and Drive System (IJPEDS) ISSN: 2088-8694, DOI: 10.11591/ijpeds.v11.i2.pp605-610 Volume11 issue2 June 2020 pp no 605-610
- S.Satish kumar and Dr M. Sasikumar “Diminution of Harmonics in a Cascaded Multilevel Inverter Using Third Harmonics Injection PWM Technique” International Journal of Recent Technology and Engineering (IJRTE) ISSN: 2277-3878, Volume-8 Issue-3, Ppno 7493-7497,September 2019
- K.S.Kavithakumari, P.Wilson, M.Praveen&S.Satish Kumar “Accident Avoidance Structure Using Driver Well-Being Condition”Iaetsd Journal For Advanced Research In Applied Sciences ISSN NO: 2394-8442 volume 5, issue 11, pp 05-11 November/2018
- T ArunSrunivas, S Ramarajan and S Satish Kumar, Simulation analysis of partially shaded photo voltaic fed induction motor IAETSD –JARAS 2018 2394-8442 pp no 1245-1249
- S.Satish kumar and Dr M. Sasikumar “An Approach of Hybrid Modulation in Fusion seven-level Cascaded Multilevel Inverter accomplishment to IM drive system”2016 Second International Conference On Science Technology Engineering and Management(ICONSTEM) 978-1-5090-1706-5, pp 384-387, 2016 IEEE.

- S Ramarajan, ,SSatish Kumar T ArunSrunivas “Design and Implementation of Single Phase Cascaded Multilevel Grid Connected Inverter with Reduced Switches Using Photovoltaic Systems” in Journal of chemical and pharmaceutical science (JCHPS), ISSN: 0974-2115, Vol.8 no.2, page no: 217-226, June 2015.
- S SatishKumar ,SRamarajan, T ArunSrunivas , “Efficient energy perception and power theft preclusion using IED” in Journal of chemical and pharmaceutical science (JCHPS), ISSN: 0974-2115, page no: 65-69. March 2015.
- S Ramarajan,, T ArunSrunivas, SSatish Kumar “Hybrid usage of Photo Voltaic and Wind Turbine Systems to attain Self Sustainability of electric power in Waste water Treatment Plant” in Journal of chemical and pharmaceutical science (JCHPS), ISSN: 0974-2115, page no: 70-74. March 2015.
- N Sujitha, S Satish Kumar, M Sasikumar “ Design And Implementation Of Hybrid Spwm Control For Cascaded H-Bridge Multi Level Inverter For Motor Drives, ”IU- Journal Of Electrical & Electronics Engineering, vol. 14, no.1, pp. 1721-1727. Impact Factor:- 0.14, March 2014
- B.Arunkumaran, G.Arthiraja, AmmalDhanalakshmi , S.Satishkumar “A Comparative study on different types of Integrated Boost Resonant Converters” International Journal of Advanced Research in Electrical, Electronics and Instrumentation Engineering ISSN 2320 – 3765 Vol. 3, Issue 1, Pp 6710-6716, January 2014.
- N Sujitha, S Satish Kumar, M Sasikumar Efficient Hybrid Sinusoidal Pulse-Width Modulation Control Schemes For Cascaded Five-Level H-Bridge Inverter-Fed Industrial Drives. Australian Journal of electrical and electronics engineering volume 10, issue 4, 2013 Taylors Francis
- N. Sujitha, S.Satish kumar, M.Sasikumar Simulation “Analysis of Hybrid Alternative Phase Apposition Disposition PWM Scheme for Cascaded Multilevel Inverters” International Journal of Scientific & Engineering Research, Volume 3, Issue 10, ISSN 2229-5518, October-2012

## **Conference**

- **S.Satish kumar** ,Dr M. Sasikumar, K.S.Kavithakumari and Dr P Siva Perumal. “Implementation Of A Simplified Nine Level Dc-Ac Inverter”ICIRMEEE2k21at AMET Deemed to be University on 17<sup>th</sup> June 2021.
- **S.Satish kumar**, K.S.Kavithakumari and Dr M. Sasikumar “A Novel Optimized Eleven Level Hybrid Cascaded Multi-Level Inverter”3<sup>rd</sup> International Conference on Innovations in Electrical, Information and Communication Engineering (ICIEIC 21)at Kongunadu College of Engineering and Technology (Autonomous) on 27<sup>th</sup> March 2021.
- S Ramarajan, T ArunSrunivas ,S SatishKumar,SAnbhudasan and PR ManojPrabhu V-Trough concentrator with singleaxis tracking ICONSTEM ,978-98-86675-42 conference page no.217,March 2018
- Paper published in the title of, “MPPT Using Fuzzy Logic Controller for SEPIC Converter and Three Phase Inverter” International E-Publication, ISBN no: 978-93-84659-77-6, pp.53, 2017
- Paper published in the title of, “Design and Implementation of a Novel Multilevel Inverter” International E-Publication, ISBN no: 978-93-84659-77-6, pp.55, 2017.
- Paper published in the title of, “Improving the Efficiency of Universal Motor and Application”, ISBN no: 978-93-84659-77-6, pp.15, 2017.

### **Workshop**

- Renewable energy adopting smart technologies organized by department of EEE in B S Abdur Rahman crescent institute of science and technology 1st October 2018.

### **Patent Published**

- 2022 India Patent “Controller for Neutral Point Clamped Multilevel Inverter in Autonomous ships” S Satish kumar et.al Reg.NO.202241000336 Published
- 2021 Australian patent “Automatic Electric Cooling Fan System; a device and thereof” S Satish kumar et.al Reg.No.2021104519 Published

### **Book Chapter**

- **S.Satish kumar**, D.Lakshmii and et all contributed a chapter titled, “Energy and Power” in the book, “Diminishing Energy Demand In Pandemic Energy Crisis During

Pandemic Improvement Of Energy Demand After Pandemic” ESN PUBLICATIONS  
INDIA ISBN 978-81-947019-5-8

**Proposal**

- Applied Project proposal “Online computational methods for electricity meter”  
Tamilnadu state council for science and technology students project scheme AY  
2018-2019.

**Award.**

- Award of appreciation contributing ASIA book of Record on 30<sup>th</sup> Jan 2021.

**Membership**

- IAENGG : 266701

(International association of Engineers)