

Dr Pappula Sampath Kumar

M.Tech (JNTUA), Ph.D (JNTUK)

IAENG, MISTE, IEI

Assistant Professor

Electrical and Electronics Engineering Department

Bapatla Engineering College, Bapatla.

Email : sampathkumar.pappula@becbapatla.ac.in



Biography

Dr Pappula Sampath Kumar has awarded Ph.D (Power Systems Engineering) from JNTUK, Kakinada, India, in 2020, his M.Tech. (Control Systems Engineering) from JNTUA, Anantapur, India, in 2007 and his B.Tech (Electrical and Electronics Engineering) from JNTUH, Hyderabad, India, in 2004 respectively.

In 2004, he joined as Assistant Professor in the Department of Electrical Engineering, Rao & Naidu Engineering College, Ongole. In July 2007, he joined CMC, Hyderabad, as SCADA Trainee Engineer. He is Assistant Professor, BEC, Bapatla, Since 2008.

Dr Pappula Sampath Kumar has guided 4 M.Tech, and 15 B.Tech Projects. His areas of interest include solar PV grid interface systems, microgrids, power quality, DSP Based Control of Power Converter monitoring and mitigation, improved power quality AC-DC converters, flexible alternating transmission systems.

Dr Pappula Sampath Kumar is a Life member of International Association of Engineers (IAENG) and a Life Member of the Indian Society for Technical Education (ISTE), Institution of Engineers (India) (IEI).

Awards & Honors

1. Published SCI and Scopus indexed journals.
2. Published several Journals and Conferences in various reputed journals.

Selected Publications

1. **Sampath Kumar Pappula**, Sushama Malaji, “Strategic demand response frame work for energy management in distribution system based on network loss sensitivity”, **Energy & Environment Journal**, **SCI**, Online issue 31(18) , DOI: 10.1177/0958305X19893041, 21-Jan, 2020. eISSN: 20484070- 0958305X.
2. **Pappula Sampath Kumar** “An Improved Lyapunov Function Based Control Strategy for Multitasking Distributed PV Inverter “, Journal of The Institution of Engineers (India): Series B, **Springer Journal**, ISSN: 2250-2114 , August-2020.
3. **Sampath Kumar Pappula**, Sushama Malaji, “Mitigation of power quality profile enhancement by design of conventional MC-UPQC with a new strategy of fuzzy and adaptive control techniques”, Materials Today, ISSN: 2214-7853, **Elsevier Journal**. SCOPUS, March-2019.

4. **Pappula Sampath kumar**, Sushama Malaji, "A PI with fuzzy based multifunctional DSTATCOM operating under stiff source", ISSN: 2352-2534, Advances in energy research, vol 2, **Springer Journal Energy**, pp. 825-838, https://doi.org/10.1007/978-981-15-2662-6_74, May-2020.
5. **P. Sampath Kumar**, M. Sushama, "Power Quality Profile Enhancement Using Hybrid Fuzzy Logic Control Based Multi Converter UPQC In Distribution System", Journal of Advanced Research in Dynamical and Control Systems, SCOPUS in **JARDCS- Nov-2018-vol.10**, (9), pp. 2620 to 2632, ISSN: 1943-023X.
6. **Pappula Sampath kumar**, M.Sushama, "Improving quality of power using try converter unified power quality conditioner (T-UPQC)", SCOPUS, **ARPJ** journal of Engineering and applied sciences ,Vol.13 No.6, **March 2018**, pp.2124-2131, ISSN 1819-6608. 15 H Index.
7. **Pappula. Sampath kumar**, Dr. M.Sushama, "A fuzzy based multi-functional DSTATCOM operating under stiff source", **IJARLT**, ISSN (O) 3011-3030, ISSN (P) 3041-3053, Vol 9, Issue 3, **July 2017**, pp 2195-2199. IF 5.41.
8. **Pappula Sampath kumar**, Dr.M.Sushama, "Modeling and Control of Custom Power Devices In Order To Improve the Quality of Power", **IJPRES**, Vol.8, Issue.3, **March 2017**, pp 215- 220. IF 4.825.
9. **Pappula. Sampath Kumar***, Jesta Poorna Chandra Rao, Dr. M. Sushama "Modeling and Design of Series Voltage Compensator for Reduction of DC- Link Capacitance fed Industrial Drive Applications" **International Journal of Research**, Available at <https://edupediapublications.org/journals> p - ISSN: 2348 – 6848 e-ISSN: 2348 - 795X,Volume 03, Issue 11 **July 2016**, page 981-987.IF 3.541.
10. **Pappula. Sampath Kumar***, K.Ashok "Power-Quality Improvement of Distribution System By Using Shunt Active Filter" International Journal Of Technical & Scientific Research, **IJTSR** -Vol.5, Issue .1, NPV5I1028,ISSNOnline:2319/9245,<http://www.ijtsr.com/wpcontent/uploads/August2015/08/NPV5I1028.pdf>, IJTSR.COM, AUGUST/2015, Page 161 -166 .
11. **Pappula. Sampath Kumar***, B.Sireesha, P.Sivaram Prasad, A.V.Naresh Babu "Comparative analysis of Differential Evolution and proposed Supervised diversified population algorithm for Optimum power flow problem." International Journal of Electrical Engineering Applications Research, **IJEER**, <http://technicaljournals.org>, ISSN: 2249 – 6548, Vol 03, Issue 01; January-April 2012, page 147-152.
12. **Pappula Sampath Kumar**, B. Lakshmi Prasanna," Understanding Key Business Processes Outsourcing Transition" , E-Conference on System Modeling and System Dynamics (**NCMSD-2020**), 22-25 July-2020 by EEE Dept, BEC,Bapatla-522101.
13. **Pappula Sampath kumar**, Sushama Malaji, "Harmonic mitigation in multi feeder using multi converter-unified power quality conditioning system", Power Electronics (IICPE)-2018 IEEE PES-IAS Delhi Chapter as well as **IEEE PELS-IES** Delhi Chapter conference at MNIT, Jaipur, December 13th to 15th, 2018.
14. **Pappula Sampath kumar**, Sushama Malaji, "Fuzzy based multi converter unified power quality conditioner for Improving quality of power in distribution systems" **ICONSEA-2018**, JNTUH, College of engineering, kukatpalli, Hyderabad. 04-Oct-2018
15. **Pappula. Sampath kumar**, Dr. M.Sushama, "Improving quality of power using custom power device with PI controller", **ICIIECS-2016**, pp 881-885.
16. **Pappula. Sampath Kumar***, Santhan kumar.CH, Shanker.B, Rajendra.K "Power System Voltage Stability Enhancement in a Wind Generators Connected Electrical Network with Increased Load Demand Using FACTS Device", **IEEE** –International Conference on Research and Development prospects on Engineering and Technology (**ICRDPET 2013**) March, 29 & 30, 2013 , Vol. 2, ISBN: 978-1-4673-4949-9 2013 IEEE, March, 29 & 30, page 122-128.
17. Sk.Arshad, Ravindra Janga, **P Sampath Kumar**, "Efficient Power Factor corrected Power Supply using Boost Topology ", On Electrical Sciences (**ICES-2012**) organized by school of EEE, Department, SASTRA University, Thanjavur, India During September-14-15,2012.pp1-6.