

Authors' Response:

The authors would like to thank the Editor and Reviewers for their valuable comments. In light of the comments of the reviewer, authors duly revised the paper, which has significantly improved the quality of paper. The responses to the comments of the editors/reviewers are given below:

Comment 1.

Please mention if after simulation there is an experiment. Are there any difficulties in implementation?

Response 1.

There are no difficulties in experiment implementation. But my test-system rating (500 KV) is very high. This is not possible to experiment in the laboratory. This setup is implemented in the substation. So Firstly, I am reduced my system rating (such as 1 KV). After that, I am trying for laboratory setup. But my college is not affording this setup cost. Yet I am managing and trying to purchase my setup items. Therefore for this experiment setup results are taken in 6 to 8 months. So these experimental results are included in my next paper work in your journal for publication. So please sir, in this time this improved & revised paper is accepted for your journal publication. Topology in my paper is novel and tries to improved power quality issues in terms of the transient stability. Comparisons (proposed topology with previous papers topology results) are also shown & proved that proposed topology is better than others.

Comment 2.

The references do not show the domain of the paper is in the field of CEAI Journal.

Response 2.

The authors are thankful to the reviewer for his kind suggestion. As suggested by the reviewer: Some Recent references have been included which are published in CEAI Journal. By this, it is proved that my paper is in the field of CEAI Journal.

- [1] Vasile Cîrtoaje, Alina Simona Baiesu, Sanda Florentina Mihalache; "Two Controller Design Procedures Using Closed-Loop Pole Placement Technique", Journal of Control Engineering and Applied Informatics, Vol.11, No. 1, pp. 34-42, **2009**.
- [2] Pedro Teppa-Garran, Germain Garcia, "Optimal Tuning of PI/PID/PID⁽ⁿ⁻¹⁾ Controllers in Active Disturbance Rejection Control", Journal of Control Engineering and Applied Informatics, Vol.15, No.4 pp. 26-36, **2013**.
- [3] Rangasamy Shivakumar, "Implementation of an Innovative Cuckoo Search Optimizer in Multi-machine Power System Stability Analysis", Journal of Control Engineering and Applied Informatics, V ol.16, No.1 pp. 98-105, **2014**.

These three papers have many fields such as pole-shifting technique, LQR approach, two area power system stability Analysis. These fields are also same as my paper fields.