

## عنوان مقاله:

Optimal Placement of Statcom Using Fuzzy and SOA Algorithm For Power Loss Reduction and Voltage Profile Improvement

# محل انتشار:

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### خلاصه مقاله:

Power loss and voltage drop in power system are major phenomena in any power system network for continuityoperation. But the tight operation of power system due to overloading or fault on the system which is evitablecan be a major threat to the power system. So it is necessary to maintain the voltages within the constraints at theoverloading conditions also by placing of STATCOM at optimal locations. New approaches are used to find theplacement and size of the STATCOM at different locations. Fuzzy is used to find the location and the size of theSTATCOM is fined by the SOA algorithm. This paper considers different loading conditions of the powersystem network (ነ۲۵,ነ۵۰,ነ۷۵ over loading conditions). From the results we can conclude that the power lossesare reduced and the voltages can be maintained within the limits. IEEE To bus, system is taken for theimplementing the above .techniques

**کلمات کلیدی:** Fuzzy approach- STATCOM- Voltage stability- SOA algorithm

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