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It is quite clear that before compensating a power system with FACTS device to improve transient stability, we need to assess the system stability conditions for different locations of the fault and the compensator and also with different amounts of compensation. The transient stability improvement of the single machine power system at different fault condition is investigated in this work.

The future work could be directed on:

- The arrangement rules with evolutionary algorithm to obtain the better power oscillation damping effects.
- The study can be extended by using larger power system that contains a number of FACTS-based stabilizers.

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