

عنوان مقاله:

Optimal location of distributed generation sources and capacitors synchronously using genetic evolutionary algorithms and particle swarm

محل انتشار:

کنگره بین المللی علوم و مهندسی (سال: 1396)

تعداد صفحات اصل مقاله: 14

نویسندگان:

Kourosh Akbari - Graduate Student / Electrical Power Trend / Islamic Azad University Bushehr Branch

Mostafa Esmail beage - Ph.D. / Electrical Power Trend / Islamic Azad University Bushehr Branch

خلاصه مقاله:

Today, distributed generation sources and capacitors play a significant role in the technical and economic environment for power systems. Using distributed generation resources can reduce network losses and also improve the voltage profile and thus increase network power quality. Also, the capacitor can play an important role in improving the voltage profile and reducing reactive power losses. If the location and size of the distributed generation sources and the capacitor are selected without studying the quality of power, it can cause serious damage to the power system both technically and economically. In this paper, the problem of determining the capacity and location of distributed generation and capacitor synchronously on the IEEE 69-bus standard network is investigated using genetic algorithms and particle swarm and the results of these two algorithms are also compared.

کلمات کلیدی:

distributed generation sources, Capacitors, Simultaneous location, Genetic Algorithm, Particle Swarm Algorithm

لینک ثابت مقاله در پایگاه سیویلیکا:

<https://civilica.com/doc/755510>

