

عنوان مقاله:

Making self-healing capability in smart grid with demand response program by TLBO Algorithm

محل انتشار:

کنفرانس بین المللی علوم و مهندسی (سال: 1394)

تعداد صفحات اصل مقاله: 13

نویسندگان:

Alireza Sahebi - *Department of Electrical, Lahijan Branch, Islamic Azad University, Lahijan, Iran*

Abdolreza tavakoli - *Department of Electrical, Lahijan Branch, Islamic Azad University, Lahijan, Iran*

خلاصه مقاله:

In this paper, first, improvement of objective functions in normal and emergency operating conditions are addressed separately by using demand response program, and then, optimization problem is solved in a two-objective manner. Pareto front-based optimization is used in optimal placement of demand response program in order to optimize the two-objective function. The aim of demand response program placement in this paper is self-healing. Simulations are carried out in MALAB environment on a standard 01-bus IEEE system using both TLBO and RDPOS algorithms and their results are compared to each other. The simulation results show that TLBO algorithm by determining optimal place and capacity of demand response program on Bus 5 with average capacity of demand response program equal to 7700, benefits enough efficiency at improving voltage profile of power losses.

کلمات کلیدی:

Demand Response Program, Voltage Profile, power loss, Self-Healing

لینک ثابت مقاله در پایگاه سیویلیکا:

<https://civilica.com/doc/424612>

