عنوان مقاله:

Particle swarm optimization algorithm for capacitor allocation problem in distribution systems with wind turbine generators

محل انتشار:

ششمین کنگره ملی تازه های مهندسی برق و کامپیوتر ایران با نگاه کاربردی بر انرژی های نو (سال: 1398)

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خلاصه مقاله:

In this paper, capacitor banks and wind turbines are simultaneously distributed in the distribution network. The goal is to minimize power losses and improve reliability. The two parameters of the System Average Interruption Frequency Index (SAIFI) and the Cost of Energy Not-Supplied (CENS) are considered as a measure of reliability improvement. The Particle Swarm Optimization (PSO) algorithm is used as a problem-solving technique and a study on the distribution network will be carried out with scenario-based design based on the number of resources allocated

کلمات کلیدی:

Optimization Algorithm, Reliability, Distribution Network, Capacitor, Distributed Generation