عنوان مقاله:

new inteligent algorithm for EED Based on renewable energy in power system

محل انتشار:

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خلاصه مقاله:

Due to the environmental concerns that arise from the emissions produced by fossil-fueled electric power plants, the classical economic dispatch, which operates electric power systems so as to minimize only the total fuel cost, can no longer be considered alone. Thus, by environmental dispatch, emissions can be reduced by dispatch of power generation to minimize emissions. The environmental/economic dispatch problem has been most commonly solved using a deterministic approach. This paper addresses the effect of the wind power units into the classical Environment/Economic Dispatch (EED) model which called hereafter as Wind/Environment/Economic Dispatch problem. To solve this problem, this paper proposed a new meta-heuristic optimization algorithm based on Shark Smell Optimization (SSO). The robustness and effectiveness of this algorithm is shows by these test systems compared to other available algorithms.

کلمات کلیدی:

Multi objective optimization, wind power, EED, SSO