

عنوان مقاله:

Using the honey Bee Mating Optimization Algorithm to Solve the Problem of Optimal Power Flow

محل انتشار:

هشتمین کنگره ملی تازه های مهندسی برق و کامپیوتر ایران (سال: 1400)

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خلاصه مقاله:

This paper present honey bee mating optimization (HBMO) for optimal power flow (OPF) problems to aim the minimum cost as an objective function and satisfying other constrain such as generation capacity limits, power balance, line flow limits, bus voltage and operating limits of power system and dependent variables. The proposed method has been examined and tested the standard IEEE ۳۰ bus test system. The HBMO method has been demonstrated and compared with the other intelligence heuristic algorithm such as Particle Swarm Optimization (PSO), Shuffel frog leaping algorithm (SLFA) Modified Differential Evolution OPF (MDE-OPF), Simulatedannealing (SA), Improved Evolutionary Programing (IEP), for ۳۰ bus test system. At the end by comparing the results, superiority of presented method has been demonstrated over the mentioned method

کلمات کلیدی:

.load flow. Optimal power flow, honey bee mating optimization (HBMO), fuel cost function

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