Abstract

The generation expansion planning (GEP) problem is a large-scale mixed integer nonlinear programming (MINLP) problem cited as one of the most complex optimization problems. In this paper, an application of honey bee mating optimization for solving the generation expansion planning problem is presented. In the formulation, the objective is to minimize investment cost. The GEP problem considered is a test system for a six-year planning horizon having five types of candidate units. The results are compared and validated.
Optimization Generation Expansion Planning by HBMO


Index Terms

Computer Science Algorithms

Keywords

generation expansion planning honey bee mating optimization Investments.