BREEDER GENETIC ALGORITHM MULTIOBJECTIVE FOR SIZING AND PLACEMENT OF DISTRIBUTED GENERATION

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ABSTRACT

This paper uses breeder genetic algorithm (BGA) multiobjective methods for sizing and placement of distributed generation (DG) with bus voltage constraint. Problems is formulated in a multiobjective form, which is usually having contradiction to another. Multiobjective proposed in this research is the reliability and fuel efficiency of DG. The effective proposed method is shown by conducting simulation on IEEE 14 and 30 bus system test.

Keywords: distributed generation (DG), genetic algorithms, programming multiobjective