Abstract

Genetic Algorithm is one the important stream of science and consider as hottest research area now a day’s, this area has very vast application in real world. Efficient methods and technologies are highly required to this world to reduce the calculations and perform the operation in precise manner. The power system is very abstruse subject so there is a need of
Application of Genetic Algorithm in the Optimum Placement of Distributed Generator in Distributed Power Systems

optimum solutions with which the system becomes optimized and economical by solving complex problem. There are many benefits to install a DG in system but the problem is there is need to do complex calculation to know the size and the placement of DG. The optimal size and location of DG for a distributed system is the basic purpose of this paper.

Reference

- Sandeep Kaur and Vivek Goyal “Classical approach for Optimal Allocation of Distributed Generation in a Distribution System” International Conference on deregulated energy and environment management at Chitkara University, July 2011.

Index Terms

Computer Science

Power Systems
**Key words**

- BI-Benefit Index
- D-Distribution Line Length
- DG-Distributed Generation
- LLW/DG-Line Losses with DG
- LLWO/DG-Line Losses without DG
- LLRI-Line Loss Reduction Index
- Pgi-Active Power of Generator at ith Bus
- Pli-Active Load at ith Bus
- Qgi-Reactive Power of Generator at ith Bus
- Qli-Reactive Load at ith Bus
- R-Resistance
- V-Voltage
- VPII-Voltage Profile Improvement Index
- X-Line Reactance