Abstract

This paper presents a literal study of Multiobjective optimization (MO) in general used in electrical machine optimization in the recent years. A set of a set of nonlinear constraints (modeling availability of resources) with a set of nonlinear objective functions (modeling several performance criteria) is solved with the help of Multi objective optimization (MO). The MO problem has several applications in science, engineering, finance, etc. It is normally not possible to find an optimal solution in MO, since the various objective functions in the problem are usually in conflict with each other. Therefore, the objective in MO is to find the Pareto front of efficient solutions that provide a substitution between the various objectives. The paper will summon up some of the work done using Multiobjective optimization on electric machines in the last years. An overview of methods used will be given and the conclusion of the different papers will be presented.
Multiobjective Optimization of Electrical Machine, a State of the Art Study


Index Terms

Computer Science
Algorithms

Keywords
Multiobjective Optimization Pareto front Evolutionary algorithms induction machine