Optimal Power Flow (OPF) faces challenges of convergence and local minima. This paper reviews nomenclature and literature of both OPF and metaphor-based heuristic optimization, emphasizing Cockroach Swarm Optimization (CSO). Then the paper investigates CSO as applied to OPF. The solution is tested on the benchmark systems such as IEEE 9 bus system using Matpower.

References


Index Terms

Computer Science
Power Systems

Keywords

Optimal Power Flow, Cockroach Swarm Optimization