

عنوان مقاله:

LOAD FREQUENCY CONTROL DESIGN USING ARTIFICIAL BEE COLONY

محل انتشار:

ششمین کنفرانس بینالمللی مسائل فنی و فیزیکی در مهندسی قدرت (سال: 1389)

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خلاصه مقاله:

This paper presents an Artificial Bee Colony (ABC) algorithm to tune optimal gains of a Proportional Integral Derivative (PID) controller for Load Frequency Control (LFC) design in an interconnected power system. The problem of robustly tuning of the PID based LFC design is formulated as an optimization problem according to the time domain-based objective function which is solved by the ABC technique that has a strong ability to find the most optimistic results. To demonstrate the effectiveness of the proposed method a two-area interconnected power system is considered as a test system under different operating conditions. The simulation results are shown to maintain robust performance in comparison with the particle swarm optimization based tuned PID controller and classical .controllers

کلمات کلیدی: LFC, ABC, PID, Power System Stability

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