



Solution of Economic Dispatch Problem using BBO for Power system optimization

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ABSTRACT: This paper presents the biogeography based optimization (BBO) algorithm to solve economic load dispatch problem. Economic load dispatch problem is basically an optimization problem where objective function may be highly nonlinear, non-convex, and no differentiable and may have multiple local minima. The models of biogeography explain how an organism arises, immigrate from an environment to another and gets eliminated. This method is based on two steps mutation and migration. This paper provides to show the minimum cost of the system constraint for each generating system also if the power demand increases the minimum cost also increases with the standard deviation. BBO technique is implemented in MATLAB environment.

KEYWORDS: Biogeography-Based Optimization (BBO), Economic Load Dispatch (ELD), GA, Migration, Mutation, Power Demand (PD).

1. INTRODUCTION

Economic Load Dispatch (ELD) are designed and operated to meet the continuous variation of power demand. ELD seeks the best generation schedule for the generating plants to supply required demand at minimum cost of production [1]. In recent years certain artificial intelligence (AI) techniques such as Fuzzy Logic (FL)[2], Differential Evolution (DE) [3], Genetic Algorithm (GA) [4], Particle Swarm Optimization (PSO) [5], Bacteria Foraging Optimization (BFO)[6], etc. have been successfully applied to the ELD problems for units having non-linear cost functions. A new population based evolutionary algorithm of optimization has been proposed, based on biogeography by Simon in year 2003[7]. Biogeography is the nature's way of distributing species. Let us consider an optimization problem with so many trial solutions of it. In BBO, a good solution is analogous to an island with a high Habitat Suitability Index (HSI), and a poor solution represents an island with a low HSI. High HSI solutions resist change more than low HSI solutions. Low HSI solutions tend to copy good features from high HSI solutions. The shared features remain in the high HSI solutions, while at the same time appearing as new features in the low HSI solutions. This is as if some representatives of a species migrating to a habitat, while other representatives remain in their original habitat. Poor solutions accept a lot of new features from good solutions. This addition of new features to low HSI solutions may raise the quality of those solutions. This new approach to solve a problem is known as biogeography-based optimization (BBO).

II. OPTIMIZATION OF ECONOMIC LOAD DISPATCH FORMULATION

The ELD problem having an objective function minimizes the total generation cost, F_T , while fulfilling various constraints when supplying the required load demand of a power system [1]. The objective function is given by Eq. 1:

$$\min F_T = \min(\sum_{i=1}^n F_i(P_{Gi})) = \min(\sum_{i=1}^n A_i P_{Gi}^2 + B_i P_{Gi} + C_i) \dots\dots\dots (1)$$

where, P_{Gi} is the output power generated by the i th generator, $F_i(P_{Gi})$ is the Generation cost function of i th generator and A_i, B_i, C_i are the Cost coefficients of i th generator, n is the number of generators.

Two constraints are considered in this problem, i.e., the generation capacity of each generator and the power balance of the entire power system.

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Table of Contents Solution Of Economic Load Dispatch Problem In Power System

1. Understanding the eBook Solution Of Economic Load Dispatch Problem In Power System
 - The Rise of Digital Reading Solution Of Economic Load Dispatch Problem In Power System
 - Advantages of eBooks Over Traditional Books
2. Identifying Solution Of Economic Load Dispatch Problem In Power System
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Solution Of Economic Load Dispatch Problem In Power System
 - User-Friendly Interface
4. Exploring eBook Recommendations from Solution Of Economic Load Dispatch Problem In Power System
 - Personalized Recommendations
 - Solution Of Economic Load Dispatch Problem In Power System User Reviews and Ratings
 - Solution Of Economic Load Dispatch Problem In Power System and Bestseller Lists

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 - Solution Of Economic Load Dispatch Problem In Power System Public Domain eBooks
 - Solution Of Economic Load Dispatch Problem In Power System eBook Subscription Services
 - Solution Of Economic Load Dispatch Problem In Power System Budget-Friendly Options
6. Navigating Solution Of Economic Load Dispatch Problem In Power System eBook Formats
 - ePub, PDF, MOBI, and More
 - Solution Of Economic Load Dispatch Problem In Power System Compatibility with Devices
 - Solution Of Economic Load Dispatch Problem In Power System Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Solution Of Economic Load Dispatch Problem In Power System
 - Highlighting and Note-Taking Solution Of Economic Load Dispatch Problem In Power System
 - Interactive Elements Solution Of Economic Load Dispatch Problem In Power System
8. Staying Engaged with Solution Of Economic Load Dispatch Problem In Power System
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Solution Of Economic Load Dispatch Problem In Power System
9. Balancing eBooks and Physical Books Solution Of Economic Load Dispatch Problem In Power System
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Solution Of Economic Load Dispatch Problem In Power System
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Solution Of Economic Load Dispatch Problem In Power System
 - Setting Reading Goals Solution Of Economic Load Dispatch Problem In Power System
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Solution Of Economic Load Dispatch Problem In Power System
 - Fact-Checking eBook Content of Solution Of Economic Load Dispatch Problem In Power System
 - Distinguishing Credible Sources
13. Promoting Lifelong Learning

- Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
14. Embracing eBook Trends
- Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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