



# Lion Optimization Algorithm (LOA): A nature-inspired metaheuristic algorithm

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Received 10 March 2015; received in revised form 29 May 2015; accepted 2 June 2015

## Abstract

During the past decade, solving complex optimization problems with metaheuristic algorithms has received considerable attention among practitioners and researchers. Hence, many metaheuristic algorithms have been developed over the last years. Many of these algorithms are inspired by various phenomena of nature. In this paper, a new population based algorithm, the Lion Optimization Algorithm (LOA), is introduced. Special lifestyle of lions and their cooperation characteristics has been the basic motivation for development of this optimization algorithm. Some benchmark problems are selected from the literature, and the solution of the proposed algorithm has been compared with those of some well-known and newest meta-heuristics for these problems. The obtained results confirm the high performance of the proposed algorithm in comparison to the other algorithms used in this paper.

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**Keywords:** Lion Optimization Algorithm (LOA); Global optimization; Metaheuristic

## 1. Introduction

Many engineering optimization problems are usually quite difficult to solve, and many applications have to deal with these complex problems. In these problems, search space grows exponentially with the problem size. Therefore, the traditional optimization methods do not provide a suitable solution for them. Hence, over the past few decades, many meta-heuristic algorithms have been designed to solve such problems. Researchers have shown good performance of meta-heuristic algorithms in a wide range of complex problems such as scheduling problems [1–6], data clustering [7,8], image and video processing [9–12], tuning of neural networks [13–15] and pattern recognition [16–18], etc.

For many years, human have utilized the guidance of nature in finding the most appropriate solution for problems. Hence, during the last decades, there has been a growing attempt in developing algorithms inspired by nature [19–21]. For example, Genetic algorithm was proposed by Holland [22], and

simulates Darwinian evolution concepts. Artificial Immune Systems [23], simulate biological immune systems for optimization. Ant Colony Optimization [24] was inspired by behavior of ants foraging for food. Particle Swarm Optimization [25] mimics the social behavior of a flock of migrating birds trying to reach an unknown destination. Marriage in Honey Bee Optimization Algorithm (MBO) was proposed by Abbass [26], and mimics processes of reproduction in the honey bee colony. Bacterial Foraging Algorithm [27] simulates search and optimal foraging of bacteria. The Shuffled Frog Leaping algorithm [28] was inspired by a frog population searching for food. The Cat Swarm algorithm [29] was developed based on the behavior of cats. Invasive weed optimization was proposed by Mehrabian and Lucas [30], and mimics the ecological behavior of colonizing weeds. Monkey Search [31] simulates a monkey in search for food resources. Water flow-like algorithm [32] was inspired by water flowing from higher to lower levels. Biogeography-based optimization algorithm was introduced by Simon [33], and inspired by biogeography which refers to the study of biological organisms in terms of geographical distribution (over time and space). The Fish

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## **Table of Contents Lion Optimization Algorithm Loa A Nature Inspired**

1. Understanding the eBook Lion Optimization Algorithm Loa A Nature Inspired
  - The Rise of Digital Reading Lion Optimization Algorithm Loa A Nature Inspired
  - Advantages of eBooks Over Traditional Books
2. Identifying Lion Optimization Algorithm Loa A Nature Inspired
  - 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 Lion Optimization Algorithm Loa A Nature Inspired
  - User-Friendly Interface
4. Exploring eBook Recommendations from Lion Optimization Algorithm Loa A Nature Inspired
  - Personalized Recommendations
  - Lion Optimization Algorithm Loa A Nature Inspired User Reviews and Ratings
  - Lion Optimization Algorithm Loa A Nature Inspired and Bestseller Lists
5. Accessing Lion Optimization Algorithm Loa A Nature Inspired Free and Paid eBooks
  - Lion Optimization Algorithm Loa A Nature Inspired Public Domain eBooks
  - Lion Optimization Algorithm Loa A Nature Inspired eBook Subscription Services

- Lion Optimization Algorithm Loa A Nature Inspired Budget-Friendly Options
- 6. Navigating Lion Optimization Algorithm Loa A Nature Inspired eBook Formats
  - ePub, PDF, MOBI, and More
  - Lion Optimization Algorithm Loa A Nature Inspired Compatibility with Devices
  - Lion Optimization Algorithm Loa A Nature Inspired Enhanced eBook Features
- 7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Lion Optimization Algorithm Loa A Nature Inspired
  - Highlighting and Note-Taking Lion Optimization Algorithm Loa A Nature Inspired
  - Interactive Elements Lion Optimization Algorithm Loa A Nature Inspired
- 8. Staying Engaged with Lion Optimization Algorithm Loa A Nature Inspired
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Lion Optimization Algorithm Loa A Nature Inspired
- 9. Balancing eBooks and Physical Books Lion Optimization Algorithm Loa A Nature Inspired
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Lion Optimization Algorithm Loa A Nature Inspired
- 10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
- 11. Cultivating a Reading Routine Lion Optimization Algorithm Loa A Nature Inspired
  - Setting Reading Goals Lion Optimization Algorithm Loa A Nature Inspired
  - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Lion Optimization Algorithm Loa A Nature Inspired
  - Fact-Checking eBook Content of Lion Optimization Algorithm Loa A Nature Inspired
  - 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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