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The optimization algorithm of Grey wolf known as GWO is known as an advanced metaheuristic nature-inspired for an efficient optimization. This algorithm was developed through imitating the

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Alternatively, the climbers could do a random walk in the area, while looking for some clues. Such hybrid strategies are formed using a combination of randombased searching and an adaptive

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strategy, which is usually inspired by nature. In fact, that is the description of CI-based optimization algorithms.

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Omid Bozorg-Haddad. Singapore :  
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regarding all major nature-inspired algorithms, including ant and bee algorithms, bat algorithms, cuckoo search, firefly algorithms, flower algorithms, genetic...

## **(PDF) Nature-Inspired Optimization Algorithms**

Abstract. Eight popular nature inspired

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algorithms are compared with the blind random search and three advanced adaptive variants of differential evolution (DE) on real-world problems benchmark collected for CEC 2011 algorithms competition. The results show the good performance of the adaptive DE variants and their superiority over the other algorithms in



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evolutionary optimization algorithms  
whose successful performance has been  
proven in different fields of engineering,  
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Particle swarm optimization (PSO) was  
developed by Kennedy and Eberhart in

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1995 based on the swarm behavior, such as fish and bird schooling in nature, which has generated much interest in the ever-expanding area of swarm intelligence. There are over two dozen PSO variants, and hybridization with other algorithms has also been investigated.

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**Nature-Inspired Optimization  
Algorithms | ScienceDirect**

Nature-inspired algorithms emulate processes that are found in the natural world, spurring interest for optimization. Lindfield/Penny provide concise coverage to all the major algorithms, including genetic algorithms, artificial bee colony algorithms, ant colony

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optimization and the cuckoo search algorithm, among others.

**Introduction to Nature-Inspired Optimization | ScienceDirect**

ABSTRACT: A new type of nature-inspired global optimization methodology based on atmospheric motion is introduced. The proposed Wind

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Driven Optimization (WDO) technique is a population based iterative heuristic global optimization algorithm for multi-dimensional and multi-modal problems with the potential to implement constraints on the search domain.

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Haddad O., Chu X. (2018) Ant Lion  
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