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Grey Wolf Optimizer Sciencedirect

Abstract This work proposes a new meta-heuristic called Grey Wolf Optimizer (GWO) inspired by grey wolves (Canis lupus). The GWO algorithm mimics the leadership hierarchy and hunting mechanism of grey wolves in nature. Four types of grey wolves such as alpha, beta, delta, and omega are employed for simulating the leadership hierarchy.

Grey Wolf Optimizer - ScienceDirect

The grey wolf optimizer (GWO) is a newly designed population-based optimization technique inspired by Canis lupus and presented by Mirjalili et al. (2014). It mimics the social leadership and hunting behavior of grey wolves in nature. In the GWO algorithm, the fittest solution in the population is named alpha (α).

An exploration-enhanced grey wolf optimizer to solve high ...

Grey Wolf Optimizer (GWO) is an optimization algorithm based on the hierarchy and hunting behaviour of a wolf pack , , . QUasi-Affine TRansformation Evolutionary (QUATRE) is a co-evolutionary framework for quasi-affine transformation and allows statistical and probabilistic searchings [36] , [37] , [38] , [39] .

Improved Binary Grey Wolf Optimizer ... - ScienceDirect.com

The selection process in Grey Wolf Optimizer (GWO) tends to be too greedy since the search is driven by the three best solutions. In this paper, different selection methods extracted from other evolutionary algorithms (EAs) are investigated for GWO.

Natural selection methods for Grey Wolf Optimizer ...

The Grey Wolf Optimizer algorithm (GWO) is a meta-heuristic that was originated in 2014 created by Seyedali Mirjalili, and inspired basically because in the literature there was not a Swarm Intelligence (SI) technique based on the hierarchy of leadership of the Grey Wolf.

A fuzzy hierarchical operator in the grey wolf optimizer ...

This paper provides a novel way to dissolve the problem of finding the best configuration for fuel assemblies in a PWR core. For this goal, the Grey W...

PWR core pattern optimization using grey wolf algorithm ...

The failure of classical techniques and algorithms have triggered researchers to search for stochastic tools capably of exploring the search space with constant convergence speed. Grey wolf optimizer (GWO) is a moderately novel stochastic algorithm with only a few parameters to regulate that can be easily employed for global optimization.

Optimizing biodiesel production from ... - sciencedirect.com

Grey Wolf Optimizer Sciencedirect Abstract This work proposes a new meta-heuristic called Grey Wolf Optimizer (GWO) inspired by grey wolves (Canis lupus). The GWO algorithm mimics the leadership hierarchy and hunting mechanism of grey wolves in nature. Four types of grey wolves such as alpha, beta, delta, and omega

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Multi-objective grey wolf optimizer: A novel algorithm for ... 119. (.....

Multi-objective grey wolf optimizer: A novel algorithm for ...

In irrigation systems, salinity is a critical problem as it has undesirable impacts on crop health, agricultural throughput and farming management. Co...

Predicting soil electrical ... - sciencedirect.com

Main contribution is Mixed Grey Wolf Optimizer. It handles research in both discrete and continuous research spaces, with an optional continuous refinement. MixedGWO is compared with other Meta heuristics optimization algorithms in this toolbox.

Mixed Grey Wolf Optimizer - Meta heuristics toolbox - File ...

To solve the model with hybrid optimization variables, a multi-objective hybrid grey wolf optimization algorithm is proposed, in which continuous and discrete optimization variables are encoded and optimized synchronously.

Multi-objective complementary scheduling of hydro-thermal ...

Abstract and Figures Grey wolf optimizer (GWO), which is inspired by the social behaviors of grey wolf packs, is a nature-inspired and population-based algorithm. The GWO technique has the...

(PDF) Grey wolf optimizer with an enhanced hierarchy and ...

There is no doubt that the Grey Wolf Optimizer is one of the most recent, well-regarded and widely-used AI search techniques. A lot of scientists and practitioners use search and optimization algorithms without understanding their internal structure.

The Grey Wolf Optimizer | Udemy

GWO is a newly proposed meta-heuristic optimization algorithm, inspired by grey wolves (Canis lupus). Alpha, beta, delta, and omega are the four categories of grey wolves, which are utilized to simulate leadership hierarchy.

Grey wolf optimizer based placement and sizing of multiple ...

The grey wolf optimizer is a novel heuristic swarm intelligent optimization algorithm proposed by Seyedali Mirjalili et al. in 2014. The wolf as top predators in the food chain, has a strong ...

An Improved Grey Wolf Optimizer Based on Differential ...

The main inspiration of this optimizer is the navigation method of moths in nature called transverse orientation. Moths fly in night by maintaining a fixed angle with respect to the moon, a very effective mechanism for travelling in a straight line for long distances.

Projects | Seyedali Mirjalili

The Grey Wolf Optimizer (GWO) mimics the leadership hierarchy and hunting mechanism of grey wolves in nature. Four types of grey wolves such as alpha, beta, delta, and omega are employed for simulating the leadership hierarchy.

Grey Wolf Optimizer - GWO | Seyedali Mirjalili

This paper proposes a Multi-Objective Grey Wolf Optimizer (MOGWO) Evolutionary algorithm in order to optimize problems with multiple objectives for the first time. A fixed-sized external archive is Multi-criterion optimization integrated to the GWO for saving and retrieving the Pareto optimal solutions.

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