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Solving Computationally Expensive Engineering Problems

In this edited book, various techniques that can alleviate solving computationally expensive

engineering design problems are presented. One of the most promising approaches is the use of fast replacement models, so-called surrogates, that reliably represent the expensive, simulation-based model of the system/device of interest but they are much cheaper and analytically tractable.

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Solving Computationally Expensive Engineering Problems on ...

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Solving Computationally Expensive Engineering Problems ...

Solving Computationally Expensive Engineering Problems: Methods and Applications, Slawomir Koziel, Leifur Leifsson, Xin-She Yang GTeknikk.Society Educational Needs of University Students, Academicians and Engineers

Solving Computationally Expensive Engineering Problems ...

Many global optimization (GO) algorithms have been introduced in recent decades to deal with the Computationally Expensive Black-Box (CEBB) optimization problems. The high number of objective function evaluations, required by conventional GO methods, is prohibitive or at least inconvenient for practical design applications.

A new Kriging–Bat Algorithm for solving computationally ...

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Solving Computationally Expensive Engineering ...

Optimization problems of this kind arise in almost all engineering and scientific applications. A common practice is to use a surrogate model to reduce computational efforts minimizing a total number of direct calls of costly objective function. Surrogate model of the objective function allows finding prospective areas of the design space.

Benchmark of Surrogate-Based Optimization Algorithms for ...

Abstract. This paper presents a novel bio-inspired algorithm called Seagull Optimization Algorithm (SOA) for solving computationally expensive problems. The main inspiration of this algorithm is the migration and attacking behaviors of a seagull in nature. These behaviors are mathematically modeled and implemented to emphasize exploration and exploitation in a given search space.

Seagull optimization algorithm: Theory and its ...

The only way to be certain whether a problem is computationally feasible is to write the program, run it and find out. With enough time and money you can write all the programs, run them forever and over time, and find the ones that produce results (the halters). The others will still be running.

computer science - What is an example of a computationally ...

The paper also considers solving several challenging and computationally expensive engineering design problems (e.g. airfoil design and marine propeller design) using SSA and MSSA. The results of the real case studies demonstrate the merits of the algorithms proposed in solving real-world problems with difficult and unknown search spaces.

Salp Swarm Algorithm: A bio-inspired optimizer for ...

In laymans terms its the feasibility of computing/processing something within a finite amount of time with limited processing power, memory etc. When a problem is stated as computationally expensive it means in order to solve this you need a considerable amount of resources like time, processing power, memory etc.

What does it mean if something is computationally ...

In this paper, we present a suite of three computationally expensive real-world problems observed in different fields of engineering. We have developed Python software capable of automatically constructing geometries from a given decision vector, running appropriate simulations using the CFD code OpenFOAM, and returning the computed objective values.

A Suite of Computationally Expensive Shape Optimisation ...

Simulated Binary Crossover (SBX) ([3] with 1,674 citations) and polynomial mutation operators [8] made significant impact in solving real-parameter optimization problems using GAs. Computationally Expensive Problems: Many engineering design and process optimization problems involve expensive evaluation methods – use of FEM, CFD, flow-solvers are common. Some such problems are stochastic and require multiple evaluation schemes.

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