

Computational Intelligence In Expensive Optimization Problems Author Yoel Tenne Jun 2010

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Computational Intelligence In Expensive Optimization

In modern science and engineering, laboratory experiments are replaced by high fidelity and computationally expensive simulations. Using such simulations reduces costs and shortens development times b Computational Intelligence in Expensive Optimization Problems | SpringerLink Skip to main content Skip to table of contents

Computational Intelligence in Expensive Optimization ...

This is the first book to introduce the emerging field of computational intelligence in expensive optimization problems. Topics covered include: Dedicated implementations of evolutionary algorithms, neural networks and fuzzy logic. Reduction of expensive evaluations (modelling, variable-fidelity, fitness inheritance).

Computational Intelligence in Expensive Optimization ...

This motivates the application of computational intelligence methods such as evolutionary algorithms, neural networks and fuzzy logic, which often perform well in such settings. This is the first book to introduce the emerging field of computational intelligence in expensive optimization problems.

Computational Intelligence in Expensive Optimization ...

Call for Chapters: Computational Intelligence in Expensive Optimization Problems, a volume in the Springer series Studies in Evolutionary Learning and Optimization. Volume editors: TENNE Yoel and GOH Chi-Keong.

Computational Intelligence in Expensive Optimization Problems

Computational Intelligence in Expensive Optimization Problems by Yoel Tenne, 9783642107009, available at Book Depository with free delivery worldwide.

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Computational Intelligence in Expensive Optimization Problems

2.1. Expensive optimization problems and computational intelligence algorithms Expensive optimization problems arise in diverse domains across engineering and science, and as mentioned in Section 1, a typical scenario is engineering design optimization problems driven by computer simulations. Fig. 1 shows the layout of such

A computational intelligence algorithm for expensive ...

Expensive optimization problems and computational intelligence algorithms Expensive optimization problems arise in diverse domains across engineering and science, and as mentioned in Section 1, a typical scenario is engineering design optimization problems driven by computer simulations.

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BibTeX @MISC{Bird_computationalintelligence, author = {Stefan Bird and Xiaodong Li}, title = {Computational Intelligence in Expensive Optimization Problems manuscript No. (will be inserted by the editor) Improving Local Convergence in Particle Swarms by Fitness Approximation Using Regression}, year = {} }

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"Computational Intelligence in Optimization" is a comprehensive reference for researchers, practitioners and advanced-level students interested in both the theory and practice of using computational intelligence in real-world applications.

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A Novel Surrogate-assisted Differential Evolution for Expensive Optimization Problems with both Equality and Inequality Constraints. ... IEEE Computational Intelligence Magazine, Vol. 12, No. 4. Comparisons of different kernels in Kriging-assisted evolutionary expensive optimization.

Evolutionary Optimization of Computationally Expensive ...

expensive optimization, multi-task Gaussian process l. simulation-based optimization problem, the computational cost required for merely one objective function evaluation can even be as much as several days [1]. ... intelligence approaches, to improve problem-solving [24-34].

Evolutionary Optimization of Expensive Multi-objective ...

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Turning High-Dimensional Optimization Into Computationally Expensive Optimization Abstract: Divide-and-conquer (DC) is conceptually well suited to deal with high-dimensional optimization problems by decomposing the original problem into multiple low-dimensional subproblems, and tackling them separately.

Turning High-Dimensional Optimization Into Computationally ...

This motivates the application of computational intelligence methods such as evolutionary algorithms, neural networks and fuzzy logic, which often perform well in such settings. This is the first book to introduce the emerging field of computational intelligence in expensive optimization problems.

Adaptation, Learning, and Optimization Ser.: Computational ...

This motivates the application of computational intelligence methods such as evolutionary algorithms, neural networks and fuzzy logic, which often perform well in such settings. This is the first book to introduce the emerging field of computational intelligence in expensive optimization problems.

(ebook) Computational Intelligence in Expensive ...

The expression computational intelligence (CI) usually refers to the ability of a computer to learn a specific task from data or experimental observation. Even though it is commonly considered a synonym of soft computing, there is still no commonly accepted definition of computational intelligence.. Generally, computational intelligence is a set of nature-inspired computational methodologies ...

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