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Machine Learning And Pattern

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Learning And Optimization

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**Multidimensional Particle Swarm
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After an introduction to the key optimization techniques, the authors introduce their unified framework and demonstrate its advantages in challenging application domains, focusing on the state of the art of

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Multidimensional extensions such as

global convergence in particle swarm

optimization, dynamic data clustering,

evolutionary neural networks,

biomedical applications and

personalized ECG classification, content-

based image classification and retrieval,

and evolutionary feature synthesis.

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About this book. For many engineering problems we require optimization processes with dynamic adaptation as we aim to establish the dimension of the search space where the optimum

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solution resides and develop robust techniques to avoid the local optima usually associated with multimodal problems. This book explores multidimensional particle swarm optimization, a technique developed by the authors that addresses these requirements in a well-defined algorithmic approach.

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Multidimensional Particle Swarm
Optimization for Machine Learning and
Pattern Recognition by Serkan
Kiranyaz, Turker Ince, Moncef Gabbouj
Adaptation, Learning, and Optimization
(Book 15)

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**Multidimensional Particle Swarm
Optimization for Machine ...**

This algorithm, the so-called Fractional Global Best Formation (FGBF), collects the best dimensional components from each swarm particle and fractionally creates the aGB, which will replace gbest as a guide for the swarm, if it

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turns out to be better than the swarm's native gbest particle. We then propose a novel multi-swarm algorithm, which combines multi-swarms with the FGBF technique so that each swarm can apply FGBF distinctively.

Multi-dimensional particle swarm optimization in dynamic ...

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In: Multidimensional Particle Swarm

Optimization for Machine Learning and

Pattern Recognition. Adaptation,

Learning, and Optimization, vol 15.

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Thesis for the degree of Doctor of
Science in Technology to be presented

with due permission for public

examination and criticism in Tietotalo

Building, Auditorium TB109, at Tampere

University of Technology, on the 24th of

February 2017, at 12 noon.

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Swarm Optimization For **Optimization for Machine ...**

problems in the field of Particle Swarm Optimization (PSO) and promise efficient and robust solutions for multi-dimensional and dynamic problems. The first one, so-called Multi-Dimensional (MD) PSO, re-forms the native structure of swarm particles in such a way that they can make inter-dimensional passes

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with a dedicated dimensional PSO
process. Machine Learning And Pattern

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**Multi-dimensional Particle Swarm
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CiteSeerX - Document Details (Isaac
Councill, Lee Giles, Pradeep Teregowda):

Abstract: This paper addresses dynamic
data clustering as an optimization

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problem and propose techniques for finding optimal (number of) clusters in a multi-dimensional data or feature space. In order to accomplish this objective we first propose two novel techniques, which successfully address several major problems ...

CiteSeerX — MULTI-DIMENSIONAL

PARTICLE SWARM OPTIMIZATION ...

Traditional particle swarm optimization (PSO) algorithm mainly relies on the history-optimal information to guide its optimization. However, when the traditional PSO algorithm searches high-dimensional complex problems, wrong position information of the best particles can easily cause the most of the

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particles move toward wrong space, so the traditional PSO algorithm is easily trapped into ...

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Enhanced particle swarm optimization with multi-swarm and

...

The 0-1 multidimensional knapsack problem is a very popular combinatorial

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optimization problem. We design a quantum particle swarm algorithm with diversity preserving and effective local optimization. We show the competitiveness of the proposed algorithm compared to the state-of-the-art.

Diversity-preserving quantum

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Swarm Optimization For **particle swarm optimization ...**

In computational science, particle swarm optimization (PSO) is a computational method that optimizes a problem by iteratively trying to improve a candidate solution with regard to a given measure of quality. It solves a problem by having a population of candidate solutions, here dubbed particles, and moving these

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particles around in the search-space according to simple mathematical formulae over the particle's position and velocity. Each particle's movement is influenced by its local best known

Particle swarm optimization - Wikipedia

In this paper, we proposed a new hybrid

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heuristic that combines Quantum Particle Swarm Optimization (QPSO) with a local search method to solve the Multidimensional Knapsack Problem (MKP). We also incorporated an MKP-specific Drop/Add repair operator within the proposed approach to guarantee the feasibility of the generated solutions and to improve their quality (if possible).

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**A hybrid quantum particle swarm
optimization for the ...**

We searched for two-dimensional metastable boron sheets by using the particle swarm optimization algorithm combined with first-principles methods. We present several possible boron sheets composed of triangular and

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hexagonal motifs. The calculated total energy shows that these boron sheets are less stable than α -sheet and two recently predicted 1/8 and 2/15 B-layers.

Prediction of Two-Dimensional Boron Sheets by Particle ...

In this paper, a new efficient surrogate-assisted particle swarm optimization

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algorithm is proposed to further improve the optimization efficiency for high-dimensional expensive problems. The proposed algorithm can efficiently use the optimum information provided by the global and local surrogates to guide PSO to search in a relatively accurate and efficient manner.

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**An efficient surrogate-assisted
particle swarm ...**

In both science and engineering, the particle swarm optimization (PSO) algorithm is an important optimization technique that has been extensively used to find the global optima of multivariable functions. The PSO algorithm searches the variable space of

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a multivariable function by simulating
the social behaviors of a group of
animals.

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Optimizing High-Dimensional
Functions with an Efficient ...

The particle swarm - explosion, stability,
and convergence in a multidimensional
complex space Abstract: The particle

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swarm is an algorithm for finding optimal regions of complex search

spaces through the interaction of

individuals in a population of particles.

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The particle swarm - explosion, stability, and convergence ...

Some results of the particle swarm optimizer, implementing modifications

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derived from the analysis, suggest methods for altering the original algorithm in ways that eliminate problems and increase the ability of the particle swarm to find optima of some well-studied test functions.

[PDF] The particle swarm - explosion, stability, and ...

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Particle swarm optimization is a technique often used for computing the global optimum of a multivariable function. In this paper, we develop a new particle swarm optimization algorithm that can ...

Variable-size Cooperative Coevolutionary Particle Swarm ...

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Robot path planning is a task to determine the most viable path between a source and destination while preventing collisions in the underlying environment. This task has always been characterized as a high dimensional optimization problem and is considered NP-Hard. There have been several algorithms proposed which give

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solutions to path planning problem in
deterministic and non-deterministic
ways.

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