



Particle Swarm Optimization

Said M. Mikki, Ahmed A. Kishk



Particle Swarm Optimization:

Particle Swarm Optimization Maurice Clerc, 2010-01-05 This is the first book devoted entirely to Particle Swarm Optimization PSO which is a non specific algorithm similar to evolutionary algorithms such as taboo search and ant colonies Since its original development in 1995 PSO has mainly been applied to continuous discrete heterogeneous strongly non linear numerical optimization and it is thus used almost everywhere in the world Its convergence rate also makes it a preferred tool in dynamic optimization

Particle Swarm Optimizaton Said M. Mikki, Ahmed A. Kishk, 2022-06-01 This work aims to provide new introduction to the particle swarm optimization methods using a formal analogy with physical systems By postulating that the swarm motion behaves similar to both classical and quantum particles we establish a direct connection between what are usually assumed to be separate fields of study optimization and physics Within this framework it becomes quite natural to derive the recently introduced quantum PSO algorithm from the Hamiltonian or the Lagrangian of the dynamical system The physical theory of the PSO is used to suggest some improvements in the algorithm itself like temperature acceleration techniques and the periodic boundary condition At the end we provide a panorama of applications demonstrating the power of the PSO classical and quantum in handling difficult engineering problems The goal of this work is to provide a general multi disciplinary view on various topics in physics mathematics and engineering by illustrating their interdependence within the unified framework of the swarm dynamics Table of Contents Introduction The Classical Particle Swarm Optimization Method Boundary Conditions for the PSO Method The Quantum Particle Swarm Optimization Bibliography Index

Swarm Intelligence Russell C. Eberhart, Yuhui Shi, James Kennedy, 2001-04-11 Traditional methods for creating intelligent computational systems have privileged private internal cognitive and computational processes In contrast Swarm Intelligence argues that human intelligence derives from the interactions of individuals in a social world and further that this model of intelligence can be effectively applied to artificially intelligent systems The authors first present the foundations of this new approach through an extensive review of the critical literature in social psychology cognitive science and evolutionary computation They then show in detail how these theories and models apply to a new computational intelligence methodology particle swarms which focus on adaptation as the key behavior of intelligent systems Drilling down still further the authors describe the practical benefits of applying particle swarm optimization to a range of engineering problems Developed by the authors this algorithm is an extension of cellular automata and provides a powerful optimization learning and problem solving method This important book presents valuable new insights by exploring the boundaries shared by cognitive science social psychology artificial life artificial intelligence and evolutionary computation and by applying these insights to the solving of difficult engineering problems Researchers and graduate students in any of these disciplines will find the material intriguing provocative and revealing as will the curious and savvy computing professional Places particle swarms within the larger context of intelligent adaptive behavior and evolutionary computation Describes recent results of

experiments with the particle swarm optimization PSO algorithm Includes a basic overview of statistics to ensure readers can properly analyze the results of their own experiments using the algorithm Support software which can be downloaded from the publisher's website includes a Java PSO applet C and Visual Basic source code **Particle Swarm Optimization (PSO)** Brian Walker, 2017 Particle swarm optimization PSO is one of the recently developed swarm intelligent optimization technologies that offer the advantages of simplicity and fast biological convergence The technique originated from the theory of artificial life and evolution which is based on the optimization that is achieved as a result of swarm behaviour PSO can be easily implemented due to fewer parameters for adjustment hence it has been applied broadly in various engineering fields This book reviews advances in research and applications of PSO **Particle Swarm Optimization** Andrea E. Olsson, 2011 Particle swarm optimisation PSO is an algorithm modelled on swarm intelligence that finds a solution to an optimisation problem in a search space or model and predicts social behaviour in the presence of objectives The PSO is a stochastic population based computer algorithm modelled on swarm intelligence Swarm intelligence is based on social psychological principles and provides insights into social behaviour as well as contributing to engineering applications This book presents information on particle swarm optimisation such as using mono objective and multi objective particle swarm optimisation for the tuning of process control laws convergence issues in particle swarm optimisation study on vehicle routing problems using enhanced particle swarm optimisation and others *Particle Swarm Optimization with Applications* Pakize Erdogmus, 2018-05-30 This book is intended to gather recent studies on particle swarm optimization PSO In this book readers can find the recent theoretical developments and applications on PSO algorithm From the theoretical aspect PSO has preserved its popularity because of the fast convergence rate and a lot of hybrid algorithms have recently been developed in order to increase the performance of the algorithm At the same time PSO has also been used to solve different kinds of engineering optimization problems In this book a reader can find engineering applications of PSO such as environmental economic dispatch and grid computing **Particle Swarm Optimisation** Jun Sun, Choi-Hong Lai, Xiao-Jun Wu, 2016-04-19 Although the particle swarm optimisation PSO algorithm requires relatively few parameters and is computationally simple and easy to implement it is not a globally convergent algorithm In Particle Swarm Optimisation Classical and Quantum Perspectives the authors introduce their concept of quantum behaved particles inspired by quantum mechanics which leads to the quantum behaved particle swarm optimisation QPSO algorithm This globally convergent algorithm has fewer parameters a faster convergence rate and stronger searchability for complex problems The book presents the concepts of optimisation problems as well as random search methods for optimisation before discussing the principles of the PSO algorithm Examples illustrate how the PSO algorithm solves optimisation problems The authors also analyse the reasons behind the shortcomings of the PSO algorithm Moving on to the QPSO algorithm the authors give a thorough overview of the literature on QPSO describe the fundamental model for the QPSO algorithm and explore applications of the algorithm to

solve typical optimisation problems They also discuss some advanced theoretical topics including the behaviour of individual particles global convergence computational complexity convergence rate and parameter selection The text closes with coverage of several real world applications including inverse problems optimal design of digital filters economic dispatch problems biological multiple sequence alignment and image processing MATLAB Fortran and C source codes for the main algorithms are provided on an accompanying downloadable resources Helping you numerically solve optimisation problems this book focuses on the fundamental principles and applications of PSO and QPSO algorithms It not only explains how to use the algorithms but also covers advanced topics that establish the groundwork for understanding Applying Particle Swarm Optimization Burcu Adıgüzel Mercangöz,2021-06-09 This book explains the theoretical structure of particle swarm optimization PSO and focuses on the application of PSO to portfolio optimization problems The general goal of portfolio optimization is to find a solution that provides the highest expected return at each level of portfolio risk According to H Markowitz s portfolio selection theory as new assets are added to an investment portfolio the total risk of the portfolio s decreases depending on the correlations of asset returns while the expected return on the portfolio represents the weighted average of the expected returns for each asset The book explains PSO in detail and demonstrates how to implement Markowitz s portfolio optimization approach using PSO In addition it expands on the Markowitz model and seeks to improve the solution finding process with the aid of various algorithms In short the book provides researchers teachers engineers managers and practitioners with many tools they need to apply the PSO technique to portfolio optimization **Particle Swarm Optimization** Said M. Mikki / Ahmed A. Kishk,2008 **Particle Swarm Optimization and Intelligence: Advances and Applications** Parsopoulos, Konstantinos E.,Vrahatis, Michael N.,2010-01-31 This book presents the most recent and established developments of Particle swarm optimization PSO within a unified framework by noted researchers in the field Provided by publisher *Particle swarm optimizer: Economic dispatch with valve point effect using various PSO techniques* Vikramarajan Jambulingam,2014-05-01 Four modified versions of particle swarm optimizer PSO have been applied to the economic power dispatch with valve point effects In order to obtain the optimal solution traditional PSO search a new position around the current position The proposed strategies which explore the vicinity of particle s best position found so as far leads to a better result In addition to deal with the equality constraint of the economic dispatch problems a simple mechanism is also devised that the difference of the demanded load and total generating power is evenly shared among units except the one reaching its generating limit To show their capability the proposed algorithms are applied to thirteen Comparision among particle swarm optimization is given The results show that the proposed algorithms indeed produce more optimal solutions in both cases The different PSO techniques are New PSO Self Adaptive PSO and Chaotic PSO Among the different PSO techniques it is found that Self Adaptive PSO is better than other PSO techniques in terms of better solutions speed of convergence time of execution and robustness but it has more premature convergence *Particle Swarm*

Optimizer and Multi-Objective Optimization Feng Pan, Qi Gao, Xiao-xue Feng, Wei-xing Li, 2025-12-08 This book provides a comprehensive overview of the foundational attributes of the Particle Swarm Optimization PSO algorithm including general descriptions topological structures evaluation metrics and diversity It explores in depth the issues of premature convergence and the kinematic characteristics of the Gbest Global best Pbest Personal best and standard particle models The book also introduces a stability criterion based on dynamic time varying systems and examines the Markov properties and convergence behavior of the standard PSO algorithm For single objective optimization problems the book presents four paradigmatic design philosophies and enhancement strategies for PSO algorithms In addressing multi objective optimization challenges it offers a systematic analysis and design methodology for multi objective PSO This book is ideal for researchers in the fields of swarm intelligence and optimization techniques It aids scholars and professionals in gaining a deep understanding of swarm intelligence methodologies with a particular focus on the systematic characteristics stability convergence and other critical aspects of the PSO algorithm This knowledge equips readers to navigate and contribute to the evolving field of swarm intelligence

Particle Swarm Optimization Said M. Mikki, Ahmed A. Kishk, 2008 This work aims to provide new introduction to the particle swarm optimization methods using a formal analogy with physical systems By postulating that the swarm motion behaves similar to both classical and quantum particles we establish a direct connection between what are usually assumed to be separate fields of study optimization and physics Within this framework it becomes quite natural to derive the recently introduced quantum PSO algorithm from the Hamiltonian or the Lagrangian of the dynamical system The physical theory of the PSO is used to suggest some improvements in the algorithm itself like temperature acceleration techniques and the periodic boundary condition At the end we provide a panorama of applications demonstrating the power of the PSO classical and quantum in handling difficult engineering problems The goal of this work is to provide a general multi disciplinary view on various topics in physics mathematics and engineering by illustrating their interdependence within the unified framework of the swarm dynamics Table of Contents Introduction The Classical Particle Swarm Optimization Method Boundary Conditions for the PSO Method The Quantum Particle Swarm Optimization Bibliography Inde

Fractional Order Darwinian Particle Swarm Optimization Micael Couceiro, Pedram Ghamisi, 2015-06-16 This book examines the bottom up applicability of swarm intelligence to solving multiple problems such as curve fitting image segmentation and swarm robotics It compares the capabilities of some of the better known bio inspired optimization approaches especially Particle Swarm Optimization PSO Darwinian Particle Swarm Optimization DPSO and the recently proposed Fractional Order Darwinian Particle Swarm Optimization FODPSO and comprehensively discusses their advantages and disadvantages Further it demonstrates the superiority and key advantages of using the FODPSO algorithm such as its ability to provide an improved convergence towards a solution while avoiding sub optimality This book offers a valuable resource for researchers in the fields of robotics sports science pattern recognition and machine learning as well as for students of electrical engineering

and computer science An Effective Parallel Particle Swarm Optimization Algorithm and Its Performance Evaluation
Jagadish Kumar Maripi, 2010 Population based global optimization algorithms including Particle Swarm Optimization PSO have become popular for solving multi optima problems much more efficiently than the traditional mathematical techniques This research presents and evaluates a new parallel PSO algorithm that provides a significant performance improvement as compared to the serial PSO algorithm Instead of merely assigning parts of the task of serial version to several processors the new algorithm places multiple swarms on the available nodes in which operate independently while collaborating on the same task With the reduction of the communication bottleneck as well the ability to manipulate the individual swarms independently the proposed approach outperforms the original PSO algorithm and still maintains the simplicity and ease of implementation Advances in Particle Swarm Optimization May Church, 2021-11-16 Particle swarm optimization can be defined as a computational method that is used to optimize a problem by iteratively trying to improve a candidate solution with respect to a given measure of quality It is deployed to solve a problem by having a population of candidate solutions and moving them around in the search space in accordance with simple mathematical formulae over the particle s position and velocity Particle swarm optimization can search very large spaces of candidate solutions because it is metaheuristic and does not make any assumptions about the problem being optimized There are various variants of particle swarm optimization such as hybridization simplifications multi objective optimization and binary discrete and combinatorial particle swarm optimization This book elucidates the concepts and innovative models around prospective developments in relation to particle swarm optimization Different approaches evaluations methodologies and advanced studies on this topic have been included in it This book will serve as a reference to a broad spectrum of readers *Multidimensional Particle Swarm Optimization for Machine Learning and Pattern Recognition* Serkan Kiranyaz, Turker Ince, Moncef Gabbouj, 2013-07-16 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 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 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 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 The content is characterized by strong practical considerations and the book is supported with fully documented source code for all applications presented as well as many sample datasets The book will be of benefit to researchers and practitioners working in the areas of machine intelligence signal processing pattern recognition and data mining or using principles from these areas in their application domains It

may also be used as a reference text for graduate courses on swarm optimization data clustering and classification content based multimedia search and biomedical signal processing applications *Particle Swarm Optimization* Alex Lazinica,2009-01-01 Particle swarm optimization PSO is a population based stochastic optimization technique influenced by the social behavior of bird flocking or fish schooling PSO shares many similarities with evolutionary computation techniques such as Genetic Algorithms GA The system is initialized with a population of random solutions and searches for optima by updating generations However unlike GA PSO has no evolution operators such as crossover and mutation In PSO the potential solutions called particles fly through the problem space by following the current optimum particles This book represents the contributions of the top researchers in this field and will serve as a valuable tool for professionals in this interdisciplinary field *Particle Swarm Optimization (PSO) Optimize an Assembly Sequence Time* Der Zhan Chee,2011

Optimization of Particle Swarm Optimization Algorithm (Expedite PSO) Amit Rathi,2013 The importance of the information has rapidly increased in the past ten years At the same time personal handheld devices are significantly raised around the world Based on the fast growing market it is not only expanded dramatically in the demand of higher speed for handheld telecommunication product but also the development cycle of the Product is compressed Normative economic decision analysis involves determining the action that best achieves a desired goal or objective It means finding the action that optimizes that is maximizes or minimizes the value of an objective function or design There are many techniques for solving optimization problem but Particle Swarm Optimization PSO technique fulfills the requirement for any product design The main aim of the thesis is optimization PSO and develops a new modified PSO Expedite Particle Swarm Optimization algorithm EPSO in order to satisfy the situation of huge demand compressed development cycle and low cost for product design

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