

Pso

Venkata Lakshmi Narayana Komanapalli,N. Sivakumaran,Santoshkumar Hampannavar

**Particle Swarm Optimizer: Economic Dispatch with Valve Point Effect Using Various PSO Techniques** Vikramarajan Jambulingam,2014-05-27 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 Optimization** Maurice Clerc,2013-03-04 This is the first book devoted entirely to Particle SwarmOptimization (PSO), which is a non-specific algorithm, similar toevolutionary algorithms, such as taboo search and ant colonies. Since its original development in 1995, PSO has mainly beenapplied to continuous-discrete heterogeneous strongly non-linearnumerical optimization and it is thus used almost everywhere in theworld. Its convergence rate also makes it a preferred tool indynamic optimization.

**Applying Particle Swarm Optimization** Burcu Adigüzel Mercangöz,2021-05-13 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 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 Optimization (PSO) Brian Walker,2017 Particle swarm optimisation (PSO) is one of the recently developed swarm intelligent optimisation 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 optimisation 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.

**The Post-PSO Project** Natalie Martinaitis,2023-12-11 The psychological experiments on children carried out simultaneously on Earth and Mars by the People Stimulus Organization (PSO) have concluded. Captain Karen McCall leads a new mission to the Red Planet to explore outside the PSO site. Amelia, a bright young girl, is one of ten children invited to join the mission by attending Camp Red Sands, where they will build a model of the planet's surface. Filled with curiosity, she seeks to discover what lies outside the camp's perimeter. But what lies beyond could end them all...

**Particle Swarm Optimizaton** Said M. Mikki,Ahmed A. Kishk,2008-08-08 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

**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)* 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.

Economic dispatch with valve point effect using various PSO techniques Vikramarajan Jambulingam,2014-03-05 Bachelor Thesis from the year 2008 in the subject Engineering - Power Engineering, VIT University (VIT University), course: Power Electronics and Drives, language: English, abstract: 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 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 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. Comparison among particle swarm optimization and other modified 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 solution, speed of convergence, time of execution and robustness but it has more premature convergence.

Particle Swarm Optimizaton Said Mikki,Ahmed 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

**Application of PSO for Optimization of Power Systems Under Uncertainty** Venkata Swaroop Pappala,2010-07 Doctoral Thesis / Dissertation from the year 2009 in the subject Electrotechnology, grade: 1.0, University of Duisburg-Essen (Institute of Electrical Power Systems), course: Electrical Engineering, language: English, abstract: The primary objective of this dissertation is to develop a black box optimization tool. The algorithm should be able to solve complex nonlinear, multimodal, discontinuous and mixed-integer power system optimization problems without any model reduction. Although there are many computational intelligence (CI) based algorithms which can handle these problems, they require intense human intervention in the form of parameter tuning, selection of a suitable algorithm for a given problem etc. The idea here is to develop an algorithm that works relatively well on a variety of problems with minimum human effort. The most significant optimization task in the power system operation is the scheduling of various generation resources (Unit Commitment, UC). The current practice used in UC modelling is the binary approach. This modelling results in a high dimension problem. This in turn leads to increased computational effort and decreased efficiency of the algorithm. A duty cycle based modelling proposed in this thesis results in 80 percent reduction in the problem dimension. The stern uptime and downtime requirements are also included in the modelling. Therefore, the search process mostly starts in a feasible solution space. From the investigations on a benchmark problem, it was found that the new modelling results in high quality solutions along with improved convergence. The final focus of this thesis is to investigate the impact of unpredictable nature of demand and renewable generation on the power system operation. These quantities should be treated as a stochastic processes evolving over time. A new PSO based uncertainty

modelling technique is used to abolish the restrictions imposed by the conventional modelling algorithms. The stochastic models ar

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.

Swarm Intelligence and Bio-Inspired Computation Tamás Varga,András Király,János Abonyi,2013-05-16 Advanced inventory management in complex supply chains requires effective and robust nonlinear optimization due to the stochastic nature of supply and demand variations. Application of estimated gradients can boost up the convergence of Particle Swarm Optimization (PSO) algorithm but classical gradient calculation cannot be applied to stochastic and uncertain systems. In these situations Monte-Carlo (MC) simulation can be applied to determine the gradient. We developed a memory-based algorithm where instead of generating and evaluating new simulated samples the stored and shared former function evaluations of the particles are sampled to estimate the gradients by local weighted least squares regression. The performance of the resulted regional gradient-based PSO is verified by several benchmark problems and in a complex application example where optimal reorder points of a supply chain are determined.

**A new hybrid filtering technique for minimization of over-filtering issues in ultrasound images** Sumit Kushwaha,Rabindra Kumar Singh, In this paper, a new hybrid filter technique is proposed by combining Anisotropic Diffusion (AD) with Butterworth band pass filter to overcome the over-filtering of the image. In addition, the performance of the proposed hybrid filter and its design parameters are enhanced by using Particle Swarm Optimization (PSO) algorithm. The simulation results show that the proposed filtering technique achieves a better denoising performance on comparisons with other filtering techniques in terms of PSNR, SNR, SSIM, and EPI.

*Ontology-Based Applications for Enterprise Systems and Knowledge Management* Nazir Ahmad, Mohammad,2012-08-31 This book provides an opportunity for readers to clearly understand the notion of ontology engineering and the practical aspects of this approach in the domains of two interest areas: Knowledge Management Systems and Enterprise Systems--

**The MKM-PSO-DSI Journal** ,2001

**Improved PSO Tuned GC-VSI Performance** R. K Alvar,2024-01-16 Improved PSO Tuned GC-VSI Performance is an insightful and comprehensive book that explores the fascinating world of power system optimization and control using Particle Swarm Optimization (PSO) techniques. Author by experts in the field, this book delves into the advanced concepts and applications of PSO in conjunction with the Grid-Connected Voltage Source Inverter (GC-VSI) technology. The book begins by providing a solid foundation on the principles of PSO and its optimization capabilities. It then introduces the GC-VSI technology and its role in power systems, highlighting the need for efficient control algorithms to enhance its performance. Drawing upon the wisdom of R.K Alvar, a renowned saint and philosopher, the authors integrate spiritual insights with technical knowledge, offering a unique perspective on system optimization. Through a systematic and meticulous approach, the authors present a novel PSO tuning methodology tailored specifically for GC-VSI control. They showcase its effectiveness through detailed case studies, simulation results, and performance comparisons, demonstrating how the proposed technique outperforms existing approaches. Furthermore, the book explores the implications of this improved performance in terms of power system stability, efficiency, and reliability. This book is an essential resource for researchers, engineers, and professionals involved in power system optimization and control. It bridges the gap between theoretical concepts and practical implementation, providing valuable insights and practical guidance for optimizing GC-VSI systems.

**Advances in Automation, Signal Processing, Instrumentation, and Control** Venkata Lakshmi Narayana Komanapalli,N. Sivakumaran,Santoshkumar Hampannavar,2021-03-04 This book presents the select proceedings of the International Conference on Automation, Signal Processing, Instrumentation and Control (i-CASIC) 2020. The book mainly focuses on emerging technologies in electrical systems, IoT-based instrumentation, advanced industrial automation, and advanced image and signal processing. It also includes studies on the analysis, design and implementation of instrumentation systems, and high-accuracy and energy-efficient controllers. The contents of this book will be useful for beginners, researchers as well as professionals interested in instrumentation and control, and other allied fields.

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