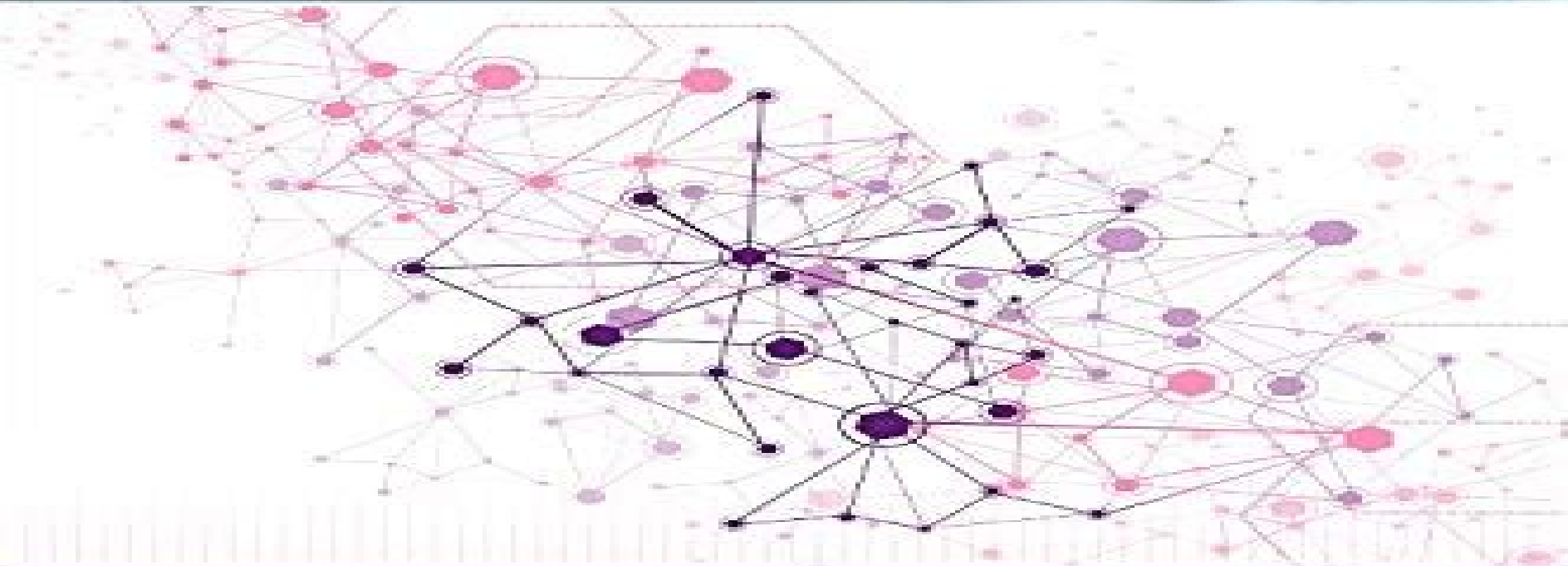


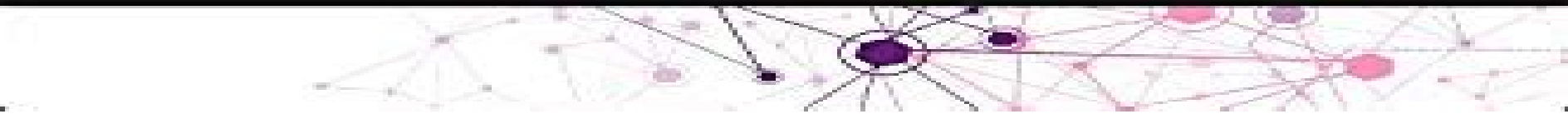


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NATURE-INSPIRED OPTIMIZATION ALGORITHMS

XIN-SHE YANG



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Nature-Inspired Optimization Algorithms Xin-She Yang, 2020-09-09 Nature Inspired Optimization Algorithms Second Edition provides an introduction to all major nature inspired algorithms for optimization The book s unified approach balancing algorithm introduction theoretical background and practical implementation complements extensive literature with case studies to illustrate how these algorithms work Topics include particle swarm optimization ant and bee algorithms simulated annealing cuckoo search firefly algorithm bat algorithm flower algorithm harmony search algorithm analysis constraint handling hybrid methods parameter tuning and control and multi objective optimization This book can serve as an introductory book for graduates for lecturers in computer science engineering and natural sciences and as a source of inspiration for new applications Discusses and summarizes the latest developments in nature inspired algorithms with comprehensive timely literature Provides a theoretical understanding and practical implementation hints Presents a step by step introduction to each algorithm Includes four new chapters covering mathematical foundations techniques for solving discrete and combination optimization problems data mining techniques and their links to optimization algorithms and the latest deep learning techniques background and various applications

Nature-Inspired Optimization Algorithms

Vasuki A, 2020-05-31 Nature Inspired Optimization Algorithms a comprehensive work on the most popular optimization algorithms based on nature starts with an overview of optimization going from the classical to the latest swarm intelligence algorithm Nature has a rich abundance of flora and fauna that inspired the development of optimization techniques providing us with simple solutions to complex problems in an effective and adaptive manner The study of the intelligent survival strategies of animals birds and insects in a hostile and ever changing environment has led to the development of techniques emulating their behavior This book is a lucid description of fifteen important existing optimization algorithms based on swarm intelligence and superior in performance It is a valuable resource for engineers researchers faculty and students who are devising optimum solutions to any type of problem ranging from computer science to economics and covering diverse areas that require maximizing output and minimizing resources This is the crux of all optimization algorithms Features Detailed description of the algorithms along with pseudocode and flowchart Easy translation to program code that is also readily available in Mathworks website for some of the algorithms Simple examples demonstrating the optimization strategies are provided to enhance understanding Standard applications and benchmark datasets for testing and validating the algorithms are included This book is a reference for undergraduate and post graduate students It will be useful to faculty members teaching optimization It is also a comprehensive guide for researchers who are looking for optimizing resources in attaining the best solution to a problem The nature inspired optimization algorithms are unconventional and this makes them more efficient than their traditional counterparts

Nature-Inspired Optimization Algorithms Xin-She Yang, 2014-02-17

Nature Inspired Optimization Algorithms provides a systematic introduction to all major nature inspired algorithms for

optimization The book's unified approach balancing algorithm introduction theoretical background and practical implementation complements extensive literature with well chosen case studies to illustrate how these algorithms work Topics include particle swarm optimization ant and bee algorithms simulated annealing cuckoo search firefly algorithm bat algorithm flower algorithm harmony search algorithm analysis constraint handling hybrid methods parameter tuning and control as well as multi objective optimization This book can serve as an introductory book for graduates doctoral students and lecturers in computer science engineering and natural sciences It can also serve as a source of inspiration for new applications Researchers and engineers as well as experienced experts will also find it a handy reference Discusses and summarizes the latest developments in nature inspired algorithms with comprehensive timely literature Provides a theoretical understanding as well as practical implementation hints Provides a step by step introduction to each algorithm

Nature-Inspired Algorithms and Applied Optimization Xin-She Yang, 2017-10-08 This book reviews the state of the art developments in nature inspired algorithms and their applications in various disciplines ranging from feature selection and engineering design optimization to scheduling and vehicle routing It introduces each algorithm and its implementation with case studies as well as extensive literature reviews and also includes self contained chapters featuring theoretical analyses such as convergence analysis and no free lunch theorems so as to provide insights into the current nature inspired optimization algorithms Topics include ant colony optimization the bat algorithm B spline curve fitting cuckoo search feature selection economic load dispatch the firefly algorithm the flower pollination algorithm knapsack problem octonion and quaternion representations particle swarm optimization scheduling wireless networks vehicle routing with time windows and maximally different alternatives This timely book serves as a practical guide and reference resource for students researchers and professionals

Nature-Inspired Computation and Swarm Intelligence Xin-She Yang, 2020-04-09 Nature inspired computation and swarm intelligence have become popular and effective tools for solving problems in optimization computational intelligence soft computing and data science Recently the literature in the field has expanded rapidly with new algorithms and applications emerging Nature Inspired Computation and Swarm Intelligence Algorithms Theory and Applications is a timely reference giving a comprehensive review of relevant state of the art developments in algorithms theory and applications of nature inspired algorithms and swarm intelligence It reviews and documents the new developments focusing on nature inspired algorithms and their theoretical analysis as well as providing a guide to their implementation The book includes case studies of diverse real world applications balancing explanation of the theory with practical implementation Nature Inspired Computation and Swarm Intelligence Algorithms Theory and Applications is suitable for researchers and graduate students in computer science engineering data science and management science who want a comprehensive review of algorithms theory and implementation within the fields of nature inspired computation and swarm intelligence Introduces nature inspired algorithms and their fundamentals including particle swarm optimization bat

algorithm cuckoo search firefly algorithm flower pollination algorithm differential evolution and genetic algorithms as well as multi objective optimization algorithms and others Provides a theoretical foundation and analyses of algorithms including statistical theory and Markov chain theory on the convergence and stability of algorithms dynamical system theory benchmarking of optimization no free lunch theorems and a generalized mathematical framework Includes a diversity of case studies of real world applications feature selection clustering and classification tuning of restricted Boltzmann machines travelling salesman problem classification of white blood cells music generation by artificial intelligence swarm robots neural networks engineering designs and others

Nature-Inspired Optimization Algorithms for Cyber-Physical Systems

Sajid, Mohammad, Shahid, Mohammad, Lapina, Maria, Babenko, Mikhail, Singh, Jagendra, 2024-12-06 Cyber physical systems CPS integrate computation communication control and physical elements to achieve shared goals with minimal human intervention encompassing smart technologies such as cities cloud computing and smart grids As CPS components expand generating vast amounts of data they face challenges in areas like resource management security computation offloading and automation demanding advanced techniques beyond traditional algorithms Nature inspired optimization algorithms drawing on natural phenomena offer scalable and adaptable solutions for these complex issues making them essential for addressing CPS challenges efficiently and enhancing their role in our daily lives Nature Inspired Optimization Algorithms for Cyber Physical Systems provides relevant theoretical frameworks and the latest empirical research findings in the area It explores the nature inspired optimization algorithms intended to boost the performance of CPS Covering topics such as ant colony optimization data analysis and smart cities this book is an excellent resource for teaching staff researchers academicians graduate and postgraduate students and more

Mathematical Foundations of Nature-Inspired Algorithms

Xin-She Yang, Xing-Shi He, 2019-05-08 This book presents a systematic approach to analyze nature inspired algorithms Beginning with an introduction to optimization methods and algorithms this book moves on to provide a unified framework of mathematical analysis for convergence and stability Specific nature inspired algorithms include swarm intelligence ant colony optimization particle swarm optimization bee inspired algorithms bat algorithm firefly algorithm and cuckoo search Algorithms are analyzed from a wide spectrum of theories and frameworks to offer insight to the main characteristics of algorithms and understand how and why they work for solving optimization problems In depth mathematical analyses are carried out for different perspectives including complexity theory fixed point theory dynamical systems self organization Bayesian framework Markov chain framework filter theory statistical learning and statistical measures Students and researchers in optimization operations research artificial intelligence data mining machine learning computer science and management sciences will see the pros and cons of a variety of algorithms through detailed examples and a comparison of algorithms

Innovative Design, Analysis and Development Practices in Aerospace and Automotive Engineering

Nicolas Gascoin, E. Balasubramanian, 2020-09-26 This book gathers the best articles presented by researchers and industrial experts at the

International Conference on Innovative Design Analysis and Development Practices in Aerospace and Automotive Engineering I DAD 2020 The papers discuss new design concepts and analysis and manufacturing technologies with a focus on achieving improved performance by downsizing improving the strength to weight ratio fuel efficiency and operational capability at room and elevated temperatures reducing wear and tear addressing NVH aspects while balancing the challenges of Euro VI Bharat Stage VI emission norms greenhouse effects and recyclable materials Presenting innovative methods this book is a valuable reference resource for professionals at educational and research organizations as well as in industry encouraging them to pursue challenging projects of mutual interest

New Advancements in Swarm

Algorithms: Operators and Applications Erik Cuevas, Fernando Fausto, Adrián González, 2019-04-02 This book presents advances in alternative swarm development that have proved to be effective in several complex problems Swarm intelligence SI is a problem solving methodology that results from the cooperation between a set of agents with similar characteristics The study of biological entities such as animals and insects manifesting social behavior has resulted in several computational models of swarm intelligence While there are numerous books addressing the most widely known swarm methods namely ant colony algorithms and particle swarm optimization those discussing new alternative approaches are rare The focus on developments based on the simple modification of popular swarm methods overlooks the opportunity to discover new techniques and procedures that can be useful in solving problems formulated by the academic and industrial communities Presenting various novel swarm methods and their practical applications the book helps researchers lecturers engineers and practitioners solve their own optimization problems

Handbook of Research on Fireworks Algorithms and Swarm

Intelligence Tan, Ying, 2019-12-27 In recent years swarm intelligence has become a popular computational approach among researchers working on optimization problems throughout the globe Several algorithms inside swarm intelligence have been implemented due to their application to real world issues and other advantages A specific procedure Fireworks Algorithm is an emerging method that studies the explosion process of fireworks within local areas Applications of this developing program are undiscovered and research is necessary for scientists to fully understand the workings of this innovative system The Handbook of Research on Fireworks Algorithms and Swarm Intelligence is a pivotal reference source that provides vital research on theory analysis improvements and applications of fireworks algorithm While highlighting topics such as convergence rate parameter applications and global optimization analysis this publication explores up to date progress on the specific techniques of this algorithm This book is ideally designed for researchers data scientists mathematicians engineers software developers postgraduates and academicians seeking coverage on this evolutionary computation method

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