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NATURE-INSPIRED OPTIMIZATION ALGORITHMS

XIN-SHE YANG

Nature Inspired Optimization Algorithms Elsevier Insights

Xin-She Yang,Xing-Shi He



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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.

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 into 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

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

Benchmarks and Hybrid Algorithms in Optimization and Applications

Xin-She Yang, 2023-08-21 This book is specially focused on the latest developments and findings on hybrid algorithms and benchmarks in optimization and their applications in sciences engineering and industries The book also provides some comprehensive reviews and surveys on implementations and coding aspects of benchmarks The book is useful for Ph D students and researchers with a wide experience in the subject areas and also good reference for practitioners from academia and industrial applications

Nature-Inspired Computation in Navigation and Routing Problems Xin-She

Yang, Yu-Xin Zhao, 2020-02-19 This book discusses all the major nature inspired algorithms with a focus on their application in the context of solving navigation and routing problems It also reviews the approximation methods and recent nature inspired approaches for practical navigation and compares these methods with traditional algorithms to validate the approach for the case studies discussed Further it examines the design of alternative solutions using nature inspired techniques and explores the challenges of navigation and routing problems and nature inspired metaheuristic approaches

Handbook Of Unconventional Computing (In 2 Volumes) Andrew Adamatzky, 2021-08-18 Did you know that computation can be implemented with cytoskeleton networks chemical reactions liquid marbles plants polymers and dozens of other living and inanimate substrates Do you know what is reversible computing or a DNA microscopy Are you aware that randomness aids computation Would you like to make logical circuits from enzymatic reactions Have you ever tried to implement digital logic with Minecraft Do you know that eroding sandstones can compute too This volume reviews most of the key attempts in coming up with an alternative way of computation In doing so the authors show that we do not need computers to compute and we do not need computation to infer It invites readers to rethink the computer and computing and appeals to computer scientists mathematicians physicists and philosophers The topics are presented in a lively and easily accessible manner and make for ideal supplementary reading across a broad range of subjects Related Link s

Optimization Techniques and Applications with Examples Xin-She Yang, 2018-09-24 A guide to modern optimization applications and techniques in newly emerging areas spanning optimization data science machine intelligence engineering and computer sciences Optimization Techniques and Applications with Examples introduces the fundamentals of all the commonly used techniques in optimization that encompass the broadness and diversity of the methods traditional and new and algorithms The author a noted expert in the field covers a wide range of topics including mathematical foundations optimization formulation optimality conditions algorithmic complexity linear programming convex optimization and integer programming In addition the book discusses artificial neural network clustering and classifications constraint handling queueing theory support vector machine and multi objective optimization evolutionary computation nature inspired algorithms and many other topics Designed as a practical resource all topics are explained in detail with step by step examples to show how each method works The book s exercises test the acquired knowledge that can be potentially applied to real problem solving By taking an informal approach to the subject the author helps readers to rapidly acquire the basic knowledge in optimization operational research and applied data mining This important resource Offers an accessible and state of the art introduction to the main optimization techniques Contains both traditional optimization techniques and the most current algorithms and swarm intelligence based techniques Presents a balance of theory algorithms and implementation Includes more than 100 worked examples with step by step explanations Written for upper undergraduates and graduates in a standard course on optimization operations research and data mining Optimization Techniques and Applications with Examples is a highly accessible guide to understanding the fundamentals of all the commonly used techniques in optimization

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

Proceedings of Fifth Doctoral Symposium on Computational Intelligence Abhishek Swaroop,Vineet Kansal,Giancarlo Fortino,Aboul Ella Hassanien,2025-02-18 This book features high quality research papers presented at Fifth Doctoral Symposium on Computational Intelligence DoSCI 2024 jointly organized by Institute of Engineering Technology Lucknow India and School of Open Learning University of Delhi in association with University of Calabria Italy on May 10 2024 This book discusses the topics such as computational intelligence artificial intelligence deep learning evolutionary algorithms swarm intelligence fuzzy sets and vague sets rough set theoretic approaches quantum inspired computational intelligence hybrid computational intelligence machine learning computer vision soft computing distributed computing parallel and grid computing cloud computing high performance computing biomedical computing and decision support and decision making

Recent Advances in Structural Health Monitoring and Engineering Structures Le Thanh Cuong,Amir H. Gandomi,Laith Abualigah,Samir Khatir,2024-06-01 This book presents the select proceedings of the 3rd International Conference on Structural Health Monitoring Engineering Structures SHM ES 2023 It covers the recent advances in the fields related to structural health monitoring damage detection and assessment non destructive testing inverse problems optimization artificial neural networks and evaluation This book is useful for researchers and professionals working in the field of health monitoring of engineering structures

Simulation and Modeling Methodologies, Technologies and Applications Gerd Wagner, Frank Werner, Floriano De Rango, 2025-10-29 The present book includes a set of selected best extended papers from the 14th International Conference on Simulation and Modeling Methodologies Technologies and Applications SIMULTECH 2024 that was held in Dijon France from 10 12 July The conference brought together researchers engineers and practitioners interested in methodologies and applications of modeling and simulation

New and innovative solutions are reported in this book. A selection was made after the conference based also on the conference chairs assessment reviewers assessment quality of presentation and audience interest so that this book includes the extended and revised versions of the very best papers of the conference. New and innovative solutions are reported in this book. Introduction to Algorithms for Data Mining and Machine Learning Xin-She Yang, 2019-06-19

Introduction to Algorithms for Data Mining and Machine Learning introduces the essential ideas behind all key algorithms and techniques for data mining and machine learning along with optimization techniques. Its strong formal mathematical approach, well selected examples and practical software recommendations help readers develop confidence in their data modeling skills so they can process and interpret data for classification, clustering, curve fitting and predictions. Masterfully balancing theory and practice, it is especially useful for those who need relevant, well explained but not rigorous proofs, based background theory and clear guidelines for working with big data.

Nature-Inspired Optimization Algorithms for Fuzzy Controlled Servo Systems Radu-Emil Precup, Radu-Codrut David, 2019-04-19. *Nature inspired Optimization Algorithms for Fuzzy Controlled Servo Systems* explains fuzzy control in servo systems in a way that doesn't require any solid mathematical prerequisite. Analysis and design methodologies are covered along with specific applications to servo systems and representative case studies. The theoretical approaches presented throughout the book are validated by the illustration of digital simulation and real time experimental results. This book is a great resource for a wide variety of readers including graduate students, engineers, designers, practitioners and researchers and everyone who faces challenging control problems. Merges classical and modern approaches to fuzzy control. Presents in a unified structure the essential aspects regarding fuzzy control in servo systems. Explains notions of fuzzy set theory and fuzzy control to readers with limited experience.

Recent Advances in Computational Optimization Stefka Fidanova, 2016-07-15. This volume is a comprehensive collection of extended contributions from the Workshop on Computational Optimization 2015. It presents recent advances in computational optimization. The volume includes important real life problems like parameter settings for controlling processes in bioreactor control of ethanol production, minimal convex hull with application in routing algorithms, graph coloring, flow design in photonic data transport system, predicting indoor temperature, crisis control, center monitoring, fuel consumption of helicopters, portfolio selection, GPS surveying and so on. It shows how to develop algorithms for them based on new metaheuristic methods like evolutionary computation, ant colony optimization, constraint programming and others. This research demonstrates how some real world problems arising in engineering, economics, medicine and other domains can be formulated as optimization problems.

Advanced Methodologies and Technologies in Artificial Intelligence, Computer Simulation, and Human-Computer Interaction Khosrow-Pour, D.B.A., Mehdi, 2018-09-28. As modern technologies continue to develop and evolve, the ability of users to adapt with new systems becomes a paramount concern. Research into new ways for humans to make use of advanced computers and other such technologies through artificial intelligence and computer

simulation is necessary to fully realize the potential of tools in the 21st century Advanced Methodologies and Technologies in Artificial Intelligence Computer Simulation and Human Computer Interaction provides emerging research in advanced trends in robotics AI simulation and human computer interaction Readers will learn about the positive applications of artificial intelligence and human computer interaction in various disciplines such as business and medicine This book is a valuable resource for IT professionals researchers computer scientists and researchers invested in assistive technologies artificial intelligence robotics and computer simulation *Smart Energy and Advancement in Power Technologies* Kumari

Namrata, Neeraj Priyadarshi, Ramesh C. Bansal, Jitendra Kumar, 2022-10-21 This book comprises peer reviewed proceedings of the International Conference on Smart Energy and Advancement in Power Technologies ICSEAPT 2021 The book includes peer reviewed papers on renewable energy economics and policy renewable energy resource assessment operations management and sustainability energy audit global warming waste and resource management green energy deployment green buildings integration of green energy energy efficiency etc The book serves as a valuable reference resource for academics and researchers across the globe **Encyclopedia of Information Science and Technology, Fourth Edition**

Khosrow-Pour, D.B.A., Mehdi, 2017-06-20 In recent years our world has experienced a profound shift and progression in available computing and knowledge sharing innovations These emerging advancements have developed at a rapid pace disseminating into and affecting numerous aspects of contemporary society This has created a pivotal need for an innovative compendium encompassing the latest trends concepts and issues surrounding this relevant discipline area During the past 15 years the Encyclopedia of Information Science and Technology has become recognized as one of the landmark sources of the latest knowledge and discoveries in this discipline The Encyclopedia of Information Science and Technology Fourth Edition is a 10 volume set which includes 705 original and previously unpublished research articles covering a full range of perspectives applications and techniques contributed by thousands of experts and researchers from around the globe This authoritative encyclopedia is an all encompassing well established reference source that is ideally designed to disseminate the most forward thinking and diverse research findings With critical perspectives on the impact of information science management and new technologies in modern settings including but not limited to computer science education healthcare government engineering business and natural and physical sciences it is a pivotal and relevant source of knowledge that will benefit every professional within the field of information science and technology and is an invaluable addition to every academic and corporate library **Introduction to Nature-Inspired Optimization** George Lindfield, John

Penny, 2017-08-10 Introduction to Nature Inspired Optimization brings together many of the innovative mathematical methods for non linear optimization that have their origins in the way various species behave in order to optimize their chances of survival The book describes each method examines their strengths and weaknesses and where appropriate provides the MATLAB code to give practical insight into the detailed structure of these methods and how they work Nature

inspired algorithms emulate processes that are found in the natural world spurring interest for optimization Lindfield Penny provide concise coverage to all the major algorithms including genetic algorithms artificial bee colony algorithms ant colony optimization and the cuckoo search algorithm among others This book provides a quick reference to practicing engineers researchers and graduate students who work in the field of optimization Applies concepts in nature and biology to develop new algorithms for nonlinear optimization Offers working MATLAB programs for the major algorithms described applying them to a range of problems Provides useful comparative studies of the algorithms highlighting their strengths and weaknesses Discusses the current state of the field and indicates possible areas of future development Energy Optimization Protocol Design for Sensor Networks in IoT Domains Sanjeev J. Wagh, Manisha Sunil Bhende, Anuradha D. Thakare, 2022-10-07 This book provides an essential overview of IoT energy efficient topology control protocols motivation and challenges for topology control for Wireless Sensor Networks and the scope of the research in the domain of IoT Further it discusses the different design issues of topology control and energy models for IoT applications different types of simulators with their advantages and disadvantages It also discusses extensive simulation results and comparative analysis for various algorithms The key point of this book is to present a solution to minimize energy and extend the lifetime of IoT networks using optimization methods to improve the performance Features Describes various facets necessary for energy optimization in IoT domain Covers all aspects to achieve energy optimization using latest technologies and algorithms in wireless sensor networks Presents various IoT and Topology Control Methods and protocols various network models and model simulation using MATLAB Reviews methods and results of optimization with Simulation Hardware architecture leading to prolonged life of IoT networks First time introduces bio inspired algorithms in the IoT domain for performance optimization This book aims at Graduate Students Researchers in Information Technology Computer Science and Engineering Electronics and Communication Engineering

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