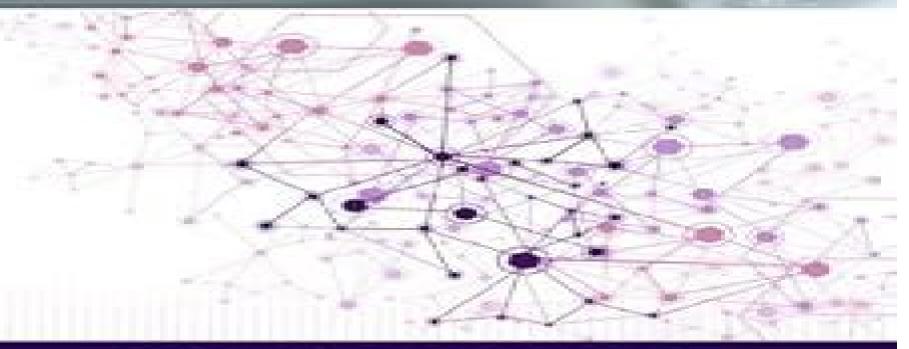


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NATURE-INSPIRED OPTIMIZATION ALGORITHMS

MIN-SHE YANG

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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 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 octonian 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 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

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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 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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