Volume 8

Evolutionary Computation with Biogeography-based Optimization

Haiping Ma and Dan Simon

Evolutionary Computation Biogeography Based Optimization Ergezer

R Bogdan

Evolutionary Computation Biogeography Based Optimization Ergezer:

Computational Intelligence-based Optimization Algorithms Babak Zolghadr-Asli,2023-10-11 Computational intelligence based optimization methods also known as metaheuristic optimization algorithms are a popular topic in mathematical programming These methods have bridged the gap between various approaches and created a new school of thought to solve real world optimization problems In this book we have selected some of the most effective and renowned algorithms in the literature These algorithms are not only practical but also provide thought provoking theoretical ideas to help readers understand how they solve optimization problems Each chapter includes a brief review of the algorithm s background and the fields it has been used in Additionally Python code is provided for all algorithms at the end of each chapter making this book a valuable resource for beginner and intermediate programmers looking to understand these algorithms **Innovative Computational Intelligence: A Rough Guide to 134 Clever Algorithms** Bo Xing,Wen-Jing Gao,2013-12-13 The first notable feature of this book is its innovation Computational intelligence CI a fast evolving area is currently attracting lots of researchers attention in dealing with many complex problems At present there are quite a lot competing books existing in the market Nevertheless the present book is markedly different from the existing books in that it presents new paradigms of CI that have rarely mentioned before as opposed to the traditional CI techniques or methodologies employed in other books During the past decade a number of new CI algorithms are proposed Unfortunately they spread in a number of unrelated publishing directions which may hamper the use of such published resources These provide us with motivation to analyze the existing research for categorizing and synthesizing it in a meaningful manner The mission of this book is really important since those algorithms are going to be a new revolution in computer science We hope it will stimulate the readers to make novel contributions or even start a new paradigm based on nature phenomena Although structured as a textbook the book s straightforward self contained style will also appeal to a wide audience of professionals researchers and independent learners We believe that the book will be instrumental in initiating an integrated approach to complex problems by allowing cross fertilization of design principles from different design philosophies The second feature of this book is its comprehensiveness Through an extensive literature research there are 134 innovative CI algorithms covered in this book **Computational Intelligence in Remanufacturing** Xing, Bo,Gao, Wen-Jing,2013-12-31 In attempts to reduce greenhouse gas emissions many alternatives to manufacturing have been recommended from a number of international organizations Although challenges will arise remanufacturing has the ability to transform ecological and business value Computational Intelligence in Remanufacturing introduces various computational intelligence techniques that are applied to remanufacturing related issues results and lessons from specific applications while highlighting future development and research This book is an essential reference for students researchers and practitioners in mechanical industrial and electrical engineering **Computational Intelligence and Intelligent Systems** Zhenhua Li,Xiang Li,Yong

Liu,Zhihua Cai,2012-10-06 This book constitutes the refereed proceedings of the 6th International Symposium on Intelligence Computation and Applications ISICA 2012 held in Wuhan China in October 2012 The 72 revised full papers presented were carefully reviewed and selected from numerous submissions The papers are organized in topical sections on artificial life adaptive behavior agents and ant colony optimization combinatorial and numerical optimization communications and computer networks data mining evolutionary multi objective and dynamic optimization intelligent computation intelligent learning systems neural networks real world applications **Principal Concepts in Applied Evolutionary Computation: Emerging Trends** Hong, Wei-Chiang Samuelson,2012-06-30 Increasingly powerful and diverse computing technologies have the potential to tackle ever greater and more complex problems and dilemmas in engineering and science disciplines Principal Concepts in Applied Evolutionary Computation Emerging Trends provides an introduction to the important interdisciplinary discipline of evolutionary computation an artificial intelligence field that combines the principles of computational intelligence with the mechanisms of the theory of evolution Academics and practicing field professionals will find this reference useful as they break into the emerging and complex world of evolutionary computation learning to harness and utilize this exciting new interdisciplinary field   Interdisciplinary Advances in Information Technology Research Khosrow-Pour, D.B.A., Mehdi,2013-03-31 Over the last few decades the constant developments in the IT field have expanded into nearly every discipline and aspect of life Interdisciplinary Advances in Information Technology Research explores multiple fields and the research done as well as how they differentiate and relate to one another This collection provides focused discussions from unique perspectives on the latest information technology research Researchers practitioners and professionals will benefit from this publication s broad perspective   *Advances in Swarm Intelligence* Ying Tan,KAY CHEN TAN,2010-06 The books LNCS 6145 and 6146 constitute the refereed proceedings of the International Conference on Swarm Intelligence ICSI 2010 held in Beijing China in June 2010 T he 185 revised full papers presented were carefully reviewed and selected from 394 submissions The papers are organized in topical sections on theoretical analysis of swarm intelligence algorithms PSO algorithms applications of PSO algorithms ACO algorithms applications of ACO algorithms artificial immune system novel swarm based optimization algorithms genetic algorithms evolutionary computation hybrid algorithms multi objective optimization algorithms multi robot systems multi agent based complex systems part I and fuzzy methods applications of computational intelligence algorithms signal processing and information security information processing system intelligent control classifier systems machine learning methods other optimization algorithms data mining methods intelligent computing methods and applications data mining algorithms and applications other applications part II   **Evolutionary Computation with Biogeography-based Optimization** Haiping Ma,Dan Simon,2017-02-06 Evolutionary computation algorithms are employed to minimize functions with large number of variables Biogeography based optimization BBO is an optimization algorithm that is based on the science of biogeography which researches the migration patterns of

species These migration paradigms provide the main logic behind BBO Due to the cross disciplinary nature of the optimization problems there is a need to develop multiple approaches to tackle them and to study the theoretical reasoning behind their performance This book explains the mathematical model of BBO algorithm and its variants created to cope with continuous domain problems with and without constraints and combinatorial problems *Biogeography-Based Optimization: Algorithms and Applications* Yujun Zheng,Xueqin Lu,Minxia Zhang,Shengyong Chen,2018-09-14 This book introduces readers to the background general framework main operators and other basic characteristics of biogeography based optimization BBO which is an emerging branch of bio inspired computation In particular the book presents the authors recent work on improved variants of BBO hybridization of BBO with other algorithms and the application of BBO to a variety of domains including transportation image processing and neural network learning The content will help to advance research into and application of not only BBO but also the whole field of bio inspired computation The algorithms and applications are organized in a step by step manner and clearly described with the help of pseudo codes and flowcharts The readers will learn not only the basic concepts of BBO but also how to apply and adapt the algorithms to the engineering optimization problems they actually encounter *Oppositional Biogeography-based Optimization* Mehmet Ergezer,OhioLINK Electronic Theses and Dissertations Center,2014 Abstract This dissertation outlines a novel variation of biogeography based optimization BBO which is an evolutionary algorithm EA developed for global optimization The new algorithm employs opposition based learning OBL alongside BBO migration to create oppositional BBO OB BO Additionally a new opposition method named quasi reflection is introduced Quasireflection is based on opposite numbers theory and we mathematically prove that it has the highest expected probability of being closer to the problem solution among all OBL methods that we explore Performance of quasi opposition is validated by mathematical analysis for a single dimensional problem and by simulations for higher dimensions Experiments are performed on benchmark problems taken from the literature as well as real world optimization problems provided by the European Space Agency Empirical results demonstrate that with the assistance of quasi reflection OB BO significantly outperforms BBO in terms of success rate and the number of fitness function evaluations required to find an optimal solution for a set of standard continuous domain benchmarks The oppositional algorithm is further revised by the addition of fitness dependent quasi reflection which gives a candidate solution that we call xKr In this algorithm the amount of reflection is based on the fitness of the individual and can be non uniform We find that for small reflection weights xKr has a higher probability of being closer to the solution but only by a negligible amount As the reflection weight increases xKr gets closer on average to the solution of an optimization problem as the probability of being closer decreases In addition we extend the idea of opposition to combinatorial problems We introduce two different methods of opposition to solve two types of combinatorial optimization problems The first technique open path opposition is suited for combinatorial problems where the final node in the graph does not have be connected to the first node such as the graph coloring problem The latter

technique circular opposition can be employed for problems where the endpoints of a graph are linked such as the well known traveling salesman problem TSP Both discrete opposition methods have been hybridized with biogeography based optimization BBO Simulations on standard graph coloring and TSP benchmarks illustrate that incorporating opposition into BBO improves performance   **Evolutionary Optimization Algorithms** Dan Simon,2013-06-13 A clear and lucid bottom up approach to the basic principles of evolutionary algorithms Evolutionary algorithms EAs are a type of artificial intelligence EAs are motivated by optimization processes that we observe in nature such as natural selection species migration bird swarms human culture and ant colonies This book discusses the theory history mathematics and programming of evolutionary optimization algorithms Featured algorithms include genetic algorithms genetic programming ant colony optimization particle swarm optimization differential evolution biogeography based optimization and many others Evolutionary Optimization Algorithms Provides a straightforward bottom up approach that assists the reader in obtaining a clear but theoretically rigorous understanding of evolutionary algorithms with an emphasis on implementation Gives a careful treatment of recently developed EAs including opposition based learning artificial fish swarms bacterial foraging and many others and discusses their similarities and differences from more well established EAs Includes chapter end problems plus a solutions manual available online for instructors Offers simple examples that provide the reader with an intuitive understanding of the theory Features source code for the examples available on the author s website Provides advanced mathematical techniques for analyzing EAs including Markov modeling and dynamic system modeling Evolutionary Optimization Algorithms Biologically Inspired and Population Based Approaches to Computer Intelligence is an ideal text for advanced undergraduate students graduate students and professionals involved in engineering and computer science

   Biogeography-based Optimization Dawei Du,2009 Biogeography based optimization BBO is a recently developed heuristic algorithm which has shown impressive performance on many well known benchmarks The aim of this thesis is to modify BBO in different ways First in order to improve BBO this thesis incorporates distinctive techniques from other successful heuristic algorithms into BBO The techniques from evolutionary strategy ES are used for BBO modification Second the traveling salesman problem TSP is a widely used benchmark in heuristic algorithms and it is considered as a standard benchmark in heuristic computations Therefore the main task in this part of the thesis is to modify BBO to solve the TSP then to make a comparison with genetic algorithms GAs Third most heuristic algorithms are designed for noiseless environments Therefore BBO is modified to operate in a noisy environment with the aid of a Kalman filter This involves probability calculations therefore BBO can choose the best option in its immigration step   **Evolutionary Computation** Wellington Santos,2009-10-01 This book presents several recent advances on Evolutionary Computation specially evolution based optimization methods and hybrid algorithms for several applications from optimization and learning to pattern recognition and bioinformatics This book also presents new algorithms based on several analogies and metafores where one of them is

based on philosophy specifically on the philosophy of praxis and dialectics In this book it is also presented interesting applications on bioinformatics specially the use of particle swarms to discover gene expression patterns in DNA microarrays Therefore this book features representative work on the field of evolutionary computation and applied sciences The intended audience is graduate undergraduate researchers and anyone who wishes to become familiar with the latest research work on this field   *Evolutionary Computation* Kenneth A. De Jong,2006-02-03 This text is an introduction to the field of evolutionary computation It approaches evolution strategies and genetic programming as instances of a more general class of evolutionary algorithms   Biogeography-based Optimization for Combinatorial Problems and Complex Systems Dawei Du,Cleveland State University. Department of Electrical and Computer Engineering,OhioLINK Electronic Theses and Dissertations Center,2014 Abstract Biogeography based optimization BBO is a heuristic evolutionary algorithm that has shown good performance on many problems In this dissertation three problem1s 1 are researched for BBO convergence speed and optimal solution convergence of BBO 1 1BBO application to combinatorial problems and BBO application to complex systems The first problem is to analyze BBO from two perspectives how the components of BBO affect its convergence speed and the reason that BBO converges to the optimal solution For the first perspective which is convergence speed we analyze the two essential components of BBO population construction and information sharing For the second perspective a mathematical BBO model is built to theoretically prove why BBO is capable of reaching the global optimum for any problem In the second problem addressed by the dissertation BBO is applied to combinatorial problems Our research includes the study of migration local search population initialization and greedy methods for combinatorial problems We conduct a series of simulations based on four benchmarks the sizes of which vary from small to extra large The simulation results indicate that when combined with other techniques the performance of BBO can be significantly improved Also a BBO graphical user interface GUI is created for combinatorial problems which is an intuitive way to experiment with BBO algorithms including hybrid BBO algorithms The third and final problem addressed in this dissertation is the optimization of complex systems We invent a new algorithm for complex system optimization based on BBO which is called BBO complex Four real world problems are used to test BBO Complex and compare with other complex system optimization algorithms and we obtain encouraging results from BBO Complex Then a Markov model is created for BBO Complex Simulation results are provided to confirm the model   **Evolutionary Computation for Modeling and Optimization** Daniel Ashlock,2005-12-15 Concentrates on developing intuition about evolutionary computation and problem solving skills and tool sets Lots of applications and test problems including a biotechnology chapter   *Evolutionary Optimization* Ruhul Sarker,Masoud Mohammadian,Xin Yao,2002-01-31 The use of evolutionary computation techniques has grown considerably over the past several years Over this time the use and applications of these techniques have been further enhanced resulting in a set of computational intelligence also known as modern heuristics tools that are particularly adept for solving complex optimization

problems Moreover they are characteristically more robust than traditional methods based on formal logics or mathematical programming for many real world OR MS problems Hence evolutionary computation techniques have dealt with complex optimization problems better than traditional optimization techniques although they can be applied to easy and simple problems where conventional techniques work well Clearly there is a need for a volume that both reviews state of the art evolutionary computation techniques and surveys the most recent developments in their use for solving complex OR MS problems This volume on Evolutionary Optimization seeks to fill this need Evolutionary Optimization is a volume of invited papers written by leading researchers in the field All papers were peer reviewed by at least two recognized reviewers The book covers the foundation as well as the practical side of evolutionary optimization   **Evolutionary Algorithms** Alain Petrowski,Sana Ben-Hamida,2017-04-12 Evolutionary algorithms are bio inspired algorithms based on Darwin s theory of evolution They are expected to provide non optimal but good quality solutions to problems whose resolution is impracticable by exact methods In six chapters this book presents the essential knowledge required to efficiently implement evolutionary algorithms Chapter 1 describes a generic evolutionary algorithm as well as the basic operators that compose it Chapter 2 is devoted to the solving of continuous optimization problems without constraint Three leading approaches are described and compared on a set of test functions Chapter 3 considers continuous optimization problems with constraints Various approaches suitable for evolutionary methods are presented Chapter 4 is related to combinatorial optimization It provides a catalog of variation operators to deal with order based problems Chapter 5 introduces the basic notions required to understand the issue of multi objective optimization and a variety of approaches for its application Finally Chapter 6 describes different approaches of genetic programming able to evolve computer programs in the context of machine learning

    Advances in Evolutionary Computing Ashish Ghosh,Shigeyoshi Tsutsui,2012-12-06 The term evolutionary computing refers to the study of the foundations and applications of certain heuristic techniques based on the principles of natural evolution thus the aim of designing evolutionary algorithms EAs is to mimic some of the processes taking place in natural evolution These algo rithms are classified into three main categories depending more on historical development than on major functional techniques In fact their biological basis is essentially the same Hence EC GA uGP u ES uEP EC Evolutionary Computing GA Genetic Algorithms GP Genetic Programming ES Evolution Strategies EP Evolutionary Programming Although the details of biological evolution are not completely understood even nowadays there is some strong experimental evidence to support the following points Evolution is a process operating on chromosomes rather than on organ isms Natural selection is the mechanism that selects organisms which are well adapted to the environment toreproduce more often than those which are not The evolutionary process takes place during the reproduction stage that includes mutation which causes the chromosomes of offspring to be dif ferent from those of the parents and recombination which combines the chromosomes of the parents to produce the offspring Based upon these features the previously mentioned three models of evolutionary

computing were independently and almost simultaneously de veloped An evolutionary algorithm EA is an iterative and stochastic process that operates on a set of individuals called a population **Evolutionary Computation Techniques: A Comparative Perspective** Erik Cuevas,Valentín Osuna,Diego Oliva,2016-12-28 This book compares the performance of various evolutionary computation EC techniques when they are faced with complex optimization problems extracted from different engineering domains Particularly focusing on recently developed algorithms it is designed so that each chapter can be read independently Several comparisons among EC techniques have been reported in the literature however they all suffer from one limitation their conclusions are based on the performance of popular evolutionary approaches over a set of synthetic functions with exact solutions and well known behaviors without considering the application context or including recent developments In each chapter a complex engineering optimization problem is posed and then a particular EC technique is presented as the best choice according to its search characteristics Lastly a set of experiments is conducted in order to compare its performance to other popular EC methods

Unveiling the Magic of Words: A Overview of "**Evolutionary Computation Biogeography Based Optimization Ergezer**"

In a global defined by information and interconnectivity, the enchanting power of words has acquired unparalleled significance. Their power to kindle emotions, provoke contemplation, and ignite transformative change is actually awe-inspiring. Enter the realm of "**Evolutionary Computation Biogeography Based Optimization Ergezer**," a mesmerizing literary masterpiece penned with a distinguished author, guiding readers on a profound journey to unravel the secrets and potential hidden within every word. In this critique, we shall delve in to the book is central themes, examine its distinctive writing style, and assess its profound affect the souls of its readers.

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