

Intelligent Systems, Control and Automation:
Science and Engineering

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Evolutionary Optimization and Game Strategies for Advanced Multi-Disciplinary Design

Applications to Aeronautics and UAV Design

 Springer

Evolutionary Optimization And Game Strategies For Advanced Multi Disciplinary Design Applications To Aeronautics And Uav Design Intelligent Systems Control And Automation Science And Engineering

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Evolutionary Optimization And Game Strategies For Advanced Multi Disciplinary Design Applications To Aeronautics And Uav Design Intelligent Systems Control And Automation Science And Engineering:

Evolutionary Optimization and Game Strategies for Advanced Multi-Disciplinary Design Jacques Periaux, Felipe Gonzalez, Dong Seop Chris Lee, 2015-04-13 Many complex aeronautical design problems can be formulated with efficient multi objective evolutionary optimization methods and game strategies This book describes the role of advanced innovative evolution tools in the solution or the set of solutions of single or multi disciplinary optimization These tools use the concept of multi population asynchronous parallelization and hierarchical topology which allows different models including precise intermediate and approximate models with each node belonging to the different hierarchical layer handled by a different Evolutionary Algorithm The efficiency of evolutionary algorithms for both single and multi objective optimization problems are significantly improved by the coupling of EAs with games and in particular by a new dynamic methodology named Hybridized Nash Pareto games Multi objective Optimization techniques and robust design problems taking into account uncertainties are introduced and explained in detail Several applications dealing with civil aircraft and UAV UCAV systems are implemented numerically and discussed Applications of increasing optimization complexity are presented as well as two hands on test cases problems These examples focus on aeronautical applications and will be useful to the practitioner in the laboratory or in industrial design environments The evolutionary methods coupled with games presented in this volume can be applied to other areas including surface and marine transport structures biomedical engineering renewable energy and environmental problems This book will be of interest to students young scientists and engineers involved in the field of multi physics optimization

Evolutionary Optimization and Game Strategies for Advanced Multi-Disciplinary Design Jacques Periaux, Felipe Gonzalez, Dong Seop Chris Lee, 2015 Many complex aeronautical design problems can be formulated with efficient multi objective evolutionary optimization methods and game strategies This book describes the role of advanced innovative evolution tools in the solution or the set of solutions of single or multi disciplinary optimization These tools use the concept of multi population asynchronous parallelization and hierarchical topology which allows different models including precise intermediate and approximate models with each node belonging to the different hierarchical layer handled by a different Evolutionary Algorithm The efficiency of evolutionary algorithms for both single and multi objective optimization problems are significantly improved by the coupling of EAs with games and in particular by a new dynamic methodology named Hybridized Nash Pareto games Multi objective Optimization techniques and robust design problems taking into account uncertainties are introduced and explained in detail Several applications dealing with civil aircraft and UAV UCAV systems are implemented numerically and discussed Applications of increasing optimization complexity are presented as well as two hands on test cases problems These examples focus on aeronautical applications and will be useful to the practitioner in the laboratory or in industrial design environments The evolutionary methods coupled with games presented in this

volume can be applied to other areas including surface and marine transport structures biomedical engineering renewable energy and environmental problems The book will be of interest to students young scientists and engineers involved in the fields of aerospace aeronautics UAV aerial robotics design and multi physics optimization Advances in Evolutionary Computing for System Design Vasile Palade,Dipti Srinivasan,2007-07-07 Evolutionary computing paradigms offer robust and powerful adaptive search mechanisms for system design This book s thirteen chapters cover a wide area of topics in evolutionary computing and applications including an introduction to evolutionary computing in system design evolutionary neuro fuzzy systems and evolution of fuzzy controllers The book will be useful to researchers in intelligent systems with interest in evolutionary computing as well as application engineers and system designers Evolutionary Computation with Intelligent Systems R. S. Chauhan,2022 This book focuses on cutting edge innovations and core theories principles and algorithms applicable to a wide area Real life applications case studies and examples are included along with emerging trends design and optimized solutions pivoting around the needs of Society 5 0 Evolutionary Computation with Intelligent Systems A Multidisciplinary Approach to Society 5 0 provides a holistic view of Evolutionary Computation techniques with principles procedures and future applications with real life examples The book comprehensively explains Evolutionary Computation design principles development trends and optimization and describes how it can transform the operating context of the organization It exemplifies the potential of Evolutionary Computation for the next generation and the role of cloud computing in shaping Society 5 0 It also provides insight into various platforms paradigms techniques and tools used in diverse fields This book appeals to all kinds of readers such as academicians researchers research scholars and postgraduates **Evolutionary Multi-Objective System Design** Nadia Nedjah,Luiza De Macedo Mourelle,Heitor Silverio Lopes,2020-07-15 Real world engineering problems often require concurrent optimization of several design objectives which are conflicting in cases This type of optimization is generally called multi objective or multi criterion optimization The area of research that applies evolutionary methodologies to multi objective optimization is of special and growing interest It brings a viable computational solution to many real world problems Generally multi objective engineering problems do not have a straightforward optimal design These kinds of problems usually inspire several solutions of equal efficiency which achieve different trade offs Decision makers preferences are normally used to select the most adequate design Such preferences may be dictated before or after the optimization takes place They may also be introduced interactively at different levels of the optimization process Multi objective optimization methods can be subdivided into classical and evolutionary The classical methods usually aim at a single solution while the evolutionary methods provide a whole set of so called Pareto optimal solutions Evolutionary Multi Objective System Design Theory and Applications provides a representation of the state of the art in evolutionary multi objective optimization research area and related new trends It reports many innovative designs yielded by the application of such optimization methods It also presents the application of multi objective optimization to the

following problems Embrittlement of stainless steel coated electrodes Learning fuzzy rules from imbalanced datasets
 Combining multi objective evolutionary algorithms with collective intelligence Fuzzy gain scheduling control Smart
 placement of roadside units in vehicular networks Combining multi objective evolutionary algorithms with quasi simplex local
 search Design of robust substitution boxes Protein structure prediction problem Core assignment for efficient network on
 chip based system design *Evolutionary Algorithms in Engineering Design Optimization* David Greiner,António
 Gaspar-Cunha,José Daniel Hernández Sosa,Edmondo Minisci,Aleš Zamuda,2022 Advances in Evolutionary and
 Deterministic Methods for Design, Optimization and Control in Engineering and Sciences António Gaspar-Cunha,Jacques
 Periaux,Kyriakos C. Giannakoglou,Nicolas R. Gauger,Domenico Quagliarella,David Greiner,2021-11-24 This book presents
 improved and extended versions of selected papers from EUROGEN 2019 a conference with interest on developing or
 applying evolutionary and deterministic methods in optimization of design and emphasizing on industrial and societal
 applications **Designing Evolutionary Algorithms for Dynamic Environments** Ronald W. Morrison,2013-06-29 The
 robust capability of evolutionary algorithms EAs to find solutions to difficult problems has permitted them to become popular
 as optimization and search techniques for many industries Despite the success of EAs the resultant solutions are often fragile
 and prone to failure when the problem changes usually requiring human intervention to keep the EA on track Since many
 optimization problems in engineering finance and information technology require systems that can adapt to changes over
 time it is desirable that EAs be able to respond to changes in the environment on their own This book provides an analysis of
 what an EA needs to do to automatically and continuously solve dynamic problems focusing on detecting changes in the
 problem environment and responding to those changes In this book we identify and quantify a key attribute needed to
 improve the detection and response performance of EAs in dynamic environments We then create an enhanced EA designed
 explicitly to exploit this new understanding This enhanced EA is shown to have superior performance on some types of
 problems Our experiments evaluating this enhanced EA indicate some previously unknown relationships between
 performance and diversity that may lead to general methods for improving EAs in dynamic environments Along the way
 several other important design issues are addressed involving computational efficiency performance measurement and the
 testing of EAs in dynamic environments Constraint-Handling in Evolutionary Optimization Efrén
 Mezura-Montes,2009-05-03 This book is the result of a special session on constraint handling techniques used in evolutionary
 algorithms within the Congress on Evolutionary Computation CEC in 2007 It presents recent research in constraint handling
 in evolutionary optimization **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 **Advances in Differential Evolution** Uday K.
 Chakraborty,2008-09-08 Differential evolution is arguably one of the hottest topics in today's computational intelligence

research This book seeks to present a comprehensive study of the state of the art in this technology and also directions for future research The fourteen chapters of this book have been written by leading experts in the area The first seven chapters focus on algorithm design while the last seven describe real world applications Chapter 1 introduces the basic differential evolution DE algorithm and presents a broad overview of the field Chapter 2 presents a new rotationally invariant DE algorithm The role of self adaptive control parameters in DE is investigated in Chapter 3 Chapters 4 and 5 address constrained optimization the former develops suitable stopping conditions for the DE run and the latter presents an improved DE algorithm for problems with very small feasible regions A novel DE algorithm based on the concept of opposite points is the topic of Chapter 6 Chapter 7 provides a survey of multi objective differential evolution algorithms A review of the major application areas of differential evolution is presented in Chapter 8 Chapter 9 discusses the application of differential evolution in two important areas of applied electromagnetics Chapters 10 and 11 focus on applications of hybrid DE algorithms to problems in power system optimization Chapter 12 applies the DE algorithm to computer chess The use of DE to solve a problem in bioprocess engineering is discussed in Chapter 13 Chapter 14 describes the application of hybrid differential evolution to a problem in control engineering

Evolutionary Computation for Dynamic Optimization

Problems Shengxiang Yang,Xin Yao,2013-11-18 This book provides a compilation on the state of the art and recent advances of evolutionary computation for dynamic optimization problems The motivation for this book arises from the fact that many real world optimization problems and engineering systems are subject to dynamic environments where changes occur over time Key issues for addressing dynamic optimization problems in evolutionary computation including fundamentals algorithm design theoretical analysis and real world applications are presented Evolutionary Computation for Dynamic Optimization Problems is a valuable reference to scientists researchers professionals and students in the field of engineering and science particularly in the areas of computational intelligence nature and bio inspired computing and evolutionary computation

Agent-Based Evolutionary Search Ruhul A. Sarker,Tapabrata Ray,2010-07-12 Agent based evolutionary search is an emerging paradigm in computational intelligence offering the potential to conceptualize and solve a variety of complex problems such as currency trading production planning disaster response management business process management etc There has been a significant growth in the number of publications related to the development and applications of agent based systems in recent years which has prompted special issues of journals and dedicated sessions in premier conferences The notion of an agent with its ability to sense learn and act autonomously allows the development of a plethora of efficient algorithms to deal with complex problems This notion of an agent differs significantly from a restrictive definition of a solution in an evolutionary algorithm and opens up the possibility to model and capture emergent behavior of complex systems through a natural age oriented decomposition of the problem space While this flexibility of representation offered by agent based systems is widely acknowledged they need to be designed for specific purposes capturing the right level of details

and description This edited volume is aimed to provide the readers with a brief background of agent based evolutionary search recent developments and studies dealing with various levels of information abstraction and applications of agent based evolutionary systems There are 12 peer reviewed chapters in this book authored by distinguished researchers who have shared their experience and findings spanning across a wide range of applications

Evolutionary Computations Keigo Watanabe, M.M.A. Hashem, 2012-11-02 Evolutionary computation a broad field that includes genetic algorithms evolution strategies and evolutionary programming has proven to offer well suited techniques for industrial and management tasks therefore receiving considerable attention from scientists and engineers during the last decade This monograph develops and analyzes evolutionary algorithms that can be successfully applied to real world problems such as robotic control Although of particular interest to robotic control engineers Evolutionary Computations also may interest the large audience of researchers engineers designers and graduate students confronted with complicated optimization tasks

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

Evolutionary Optimization Algorithms Altaf Q. H. Badar, 2021-10-29 This comprehensive reference text discusses evolutionary optimization techniques to find optimal solutions for single and multi objective problems The text presents each evolutionary optimization algorithm along with its history and other working equations It also discusses variants and hybrids of optimization techniques The text presents step by step solution to a problem and includes software's like MATLAB and Python for solving optimization problems It covers important optimization algorithms including single objective optimization multi objective optimization Heuristic optimization

techniques shuffled frog leaping algorithm bacteria foraging algorithm and firefly algorithm Aimed at senior undergraduate and graduate students in the field of electrical engineering electronics engineering mechanical engineering and computer science and engineering this text Provides step by step solution for each evolutionary optimization algorithm Provides flowcharts and graphics for better understanding of optimization techniques Discusses popular optimization techniques include particle swarm optimization and genetic algorithm Presents every optimization technique along with the history and working equations Includes latest software like Python and MATLAB

Creative Evolutionary Systems Peter Bentley, Peter J. Bentley, David W. Corne, 2002 Written for computer scientists and students and computer literate artists designers and specialists in evolutionary computation this text brings together the most advanced work in the use of evolutionary computation for creative results

Intelligent Evolutionary Optimization Hua Xu, Yuan Yuan, 2024-04-18 Intelligent Evolutionary Optimization introduces biologically inspired intelligent optimization algorithms to address complex optimization problems and provide practical solutions for tackling combinatorial optimization problems The book explores efficient search and optimization methods in high dimensional spaces particularly for high dimensional multi objective optimization problems offering practical guidance and effective solutions across various domains Providing practical solutions methods and tools to tackle complex optimization problems and enhance modern optimization techniques this book will be a valuable resource for professionals seeking to enhance their understanding and proficiency in intelligent evolutionary optimization Introduces biologically inspired intelligent optimization algorithms capable of effectively solving complex optimization problems teaching readers how to apply these algorithms and improve existing optimization techniques Explores multi objective optimization problems in high dimensional spaces for readers to understand how to perform efficient search and optimization acquiring strategies and tools adapted to high dimensional environments Presents the practical applications of intelligent evolutionary optimization in various fields to help readers gain insights into the latest trends and application scenarios in the field and receive practical guidance and solutions

Advanced Intelligent Paradigms in Computer Games Norio Baba, Hisashi Handa, 2007-06-26 The evolution of technologies has greatly changed the basic structure of our industry and nature of our daily lives Industries which did not exist several decades ago have made remarkable progress in recent years and our lives have flourished One of the most typical examples is the computer game industry This book presents a sample of the most recent research concerning the application of computational intelligence techniques and internet technology in computer games This book contains eight chapters The first chapter by N Baba and H Handa is on utilization of evolutionary algorithms to increase excitement of the COMMONS GAME It is shown that the original COMMONS GAME which is one of the most popular environmental games has been made much more exciting by the intelligent utilization of the two evolutionary algorithms The second chapter by H Barber and D Kudenko is on adaptive generation of dilemma based interactive narratives In this chapter they present an interactive narrative generator that can

create story lines that incorporate dilemmas to add dramatic tension They also briefly touch upon the possibility that their work could provide a useful tool for making dramatically interesting game playing possible The third chapter by J Tongelius S M Lucas and R D Nardi is on computational intelligence CI in racing games The authors suggest that CI techniques can be used for various purposes such as controller evolution for the racing and track evolution for a proficient player

Design by Evolution Philip F. Hingston, Luigi C. Barone, Zbigniew Michalewicz, 2008-09-30 Evolution is Nature's design process The natural world is full of wonderful examples of its successes from engineering design feats such as powered flight to the design of complex optical systems such as the mammalian eye to the merely stunningly beautiful designs of orchids or birds of paradise With increasing computational power we are now able to simulate this process with greater fidelity combining complex simulations with high performance evolutionary algorithms to tackle problems that used to be impractical This book showcases the state of the art in evolutionary algorithms for design The chapters are organized by experts in the following fields evolutionary design and intelligent design in biology art computational embryogeny and engineering The book will be of interest to researchers practitioners and graduate students in natural computing engineering design biology and the creative arts

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