

NATURAL COMPUTING SERIES

Ashish Ghosh · Shigeyoshi Tsutsui (Eds.)

Advances in Evolutionary Computing

Theory and Applications

Volume I



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Advances In Evolutionary Computing

Ashish Ghosh, Shigeyoshi Tsutsui



Advances In Evolutionary Computing:

Advances in Evolutionary Computing Ashish Ghosh, Shigeyoshi Tsutsui, 2002-11-26 This book provides a collection of forty articles containing new material on both theoretical aspects of Evolutionary Computing EC and demonstrating the usefulness success of it for various kinds of large scale real world problems Around 23 articles deal with various theoretical aspects of EC and 17 articles demonstrate the success of EC methodologies These articles are written by leading experts of the field from different countries all over the world

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 algorithms 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 uES 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 organisms Natural selection is the mechanism that selects organisms which are well adapted to the environment to reproduce 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 different 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 developed An evolutionary algorithm EA is an iterative and stochastic process that operates on a set of individuals called a population

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

Recent Advances in Evolutionary Computation for Combinatorial Optimization Carlos Cotta, Jano van Hemert, 2008-09-08 Combinatorial optimisation is a ubiquitous discipline whose usefulness spans vast applications domains The intrinsic complexity of most combinatorial optimisation problems makes classical methods unaffordable in many cases To acquire practical solutions to these problems requires the use of metaheuristic approaches that trade completeness for pragmatic effectiveness Such approaches are able to provide optimal or quasi optimal solutions to a plethora of difficult combinatorial optimisation problems The application of metaheuristics to combinatorial optimisation is an active field in

which new theoretical developments new algorithmic models and new application areas are continuously emerging This volume presents recent advances in the area of metaheuristic combinatorial optimisation with a special focus on evolutionary computation methods Moreover it addresses local search methods and hybrid approaches In this sense the book includes cutting edge theoretical methodological algorithmic and applied developments in the field from respected experts and with a sound perspective

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

Advances of Evolutionary Computation: Methods and Operators Erik Cuevas, Margarita Arimatea Díaz Cortés, Diego Alberto Oliva Navarro, 2016-01-20 The goal of this book is to present advances that discuss alternative Evolutionary Computation EC developments and non conventional operators which have proved to be effective in the solution of several complex problems The book has been structured so that each chapter can be read independently from the others The book contains nine chapters with the following themes 1 Introduction 2 the Social Spider Optimization SSO 3 the States of Matter Search SMS 4 the collective animal behavior CAB algorithm 5 the Allostatic Optimization AO method 6 the Locust Search LS algorithm 7 the Adaptive Population with Reduced Evaluations APRE method 8 the multimodal CAB 9 the constrained SSO method

Advances in Evolutionary Algorithms Witold Kosinski, 2008 With the recent trends towards massive data sets and significant computational power combined with evolutionary algorithmic advances evolutionary computation is becoming much more relevant to practice Aim of the book is to present recent improvements innovative ideas and concepts in a part of a huge EA field

Recent Advances In Simulated Evolution And Learning Kay Chen Tan, Meng Hiot Lim, Xin Yao, Lipo Wang, 2004-08-26 Inspired by the Darwinian framework of evolution through natural selection and adaptation the field of evolutionary computation has been growing very rapidly and is today involved in many diverse application areas This book covers the latest advances in the theories algorithms and applications of simulated evolution and learning techniques It provides insights into different evolutionary computation techniques and their applications in domains such as scheduling control and power robotics signal processing and bioinformatics The book will be of significant value to all postgraduates research scientists and practitioners dealing with evolutionary computation or complex real world problems This book has been selected for coverage in Index to

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Evolutionary Algorithms in Engineering and Computer Science K. Miettinen, 1999-07-09 Evolutionary Algorithms in Engineering and Computer Science Edited by K Miettinen University of Jyväskylä Finland M M M kel University of Jyväskylä Finland P Neittaanmäki University of Jyväskylä Finland J P Riaux-Dassault Aviation France What is Evolutionary Computing Based on the genetic message encoded in DNA and digitalized algorithms inspired by the Darwinian framework of evolution by natural selection Evolutionary Computing is one of the most important information technologies of our times Evolutionary algorithms encompass all adaptive and computational models of natural evolutionary systems genetic algorithms evolution strategies evolutionary programming and genetic programming In addition they work well in the search for global solutions to optimization problems allowing the production of optimization software that is robust and easy to implement Furthermore these algorithms can easily be hybridized with traditional optimization techniques This book presents state of the art lectures delivered by international academic and industrial experts in the field of evolutionary computing It bridges artificial intelligence and scientific computing with a particular emphasis on real life problems encountered in application oriented sectors such as aerospace electronics telecommunications energy and economics This rapidly growing field with its deep understanding and assessment of complex problems in current practice provides an effective modern engineering tool This book will therefore be of significant interest and value to all postgraduates research scientists and practitioners facing complex optimization problems

Advances in Evolutionary Algorithms Chang Wook Ahn, 2006-03-02 Genetic and evolutionary algorithms GEAs have often achieved an enviable success in solving optimization problems in a wide range of disciplines This book provides effective optimization algorithms for solving a broad class of problems quickly accurately and reliably by employing evolutionary mechanisms

Evolutionary Computing in Advanced Manufacturing Manoj Tiwari, Jenny A. Harding, 2011-07-12 This cutting edge book covers emerging evolutionary and nature inspired optimization techniques in the field of advanced manufacturing The complexity of real life advanced manufacturing problems often cannot be solved by traditional engineering or computational methods Hence in recent years researchers and practitioners have proposed and developed new strands of advanced intelligent techniques and methodologies Evolutionary computing approaches are introduced in the context of a wide range of manufacturing activities and through the examination of practical problems and their solutions readers will gain confidence to apply these powerful computing solutions The initial chapters introduce and discuss the well established evolutionary algorithm to help readers to understand the basic building blocks and steps required to successfully implement their own solutions to real life advanced manufacturing problems In the later chapters modified and improved versions of evolutionary algorithms are discussed The book concludes with appendices which provide general descriptions of several evolutionary algorithms

Advances in Artificial Life, Evolutionary Computation and Systems Chemistry Federico Rossi, Fabio Mavelli, Pasquale Stano, Danilo Caivano, 2016-04-02 This book constitutes the

revised selected papers of the 10th Italian Workshop on Advances in Artificial Life Evolutionary Computation and Systems Chemistry WIVACE 2015 held at Bari Italy in September 2015 The 18 papers presented have been thoroughly reviewed and selected from 45 submissions They cover the following topics evolutionary computation bioinspired algorithms genetic algorithms bioinformatics and computational biology modeling and simulation of artificial and biological systems complex systems synthetic and systems biology systems chemistry

Advances in Computational Intelligence Hans-Paul Schwefel, Ingo Wegener, K.D. Weinert, 2003-01-17 Written by leading researchers this book discusses the recent results achieved in computational intelligence It provides complete coverage of the core issues in the field Theoretical and methodological investigations are complemented by prototypic applications for design and management tasks in electrical engineering mechanical engineering and chemical engineering All those interested in learning about and applying advanced techniques of computational intelligence will appreciate the book as a useful guide enhanced by numerous examples and applications in a variety of fields

Evolutionary Multiobjective Optimization Ajith Abraham, L. C. Jain, 2005-04-22 Evolutionary Multiobjective Optimization is a rare collection of the latest state of the art theoretical research design challenges and applications in the field of multiobjective optimization paradigms using evolutionary algorithms It includes two introductory chapters giving all the fundamental definitions several complex test functions and a practical problem involving the multiobjective optimization of space structures under static and seismic loading conditions used to illustrate the various multiobjective optimization concepts Important features include Detailed overview of all the multiobjective optimization paradigms using evolutionary algorithms Excellent coverage of timely advanced multiobjective optimization topics State of the art theoretical research and application developments Chapters authored by pioneers in the field Academics and industrial scientists as well as engineers engaged in research development and application of evolutionary algorithm based Multiobjective Optimization will find the comprehensive coverage of this book invaluable

New Achievements in Evolutionary Computation Peter Korosec, 2010-02-01 Evolutionary computation has been widely used in computer science for decades Even though it started as far back as the 1960s with simulated evolution the subject is still evolving During this time new metaheuristic optimization approaches like evolutionary algorithms genetic algorithms swarm intelligence etc were being developed and new fields of usage in artificial intelligence machine learning combinatorial and numerical optimization etc were being explored However even with so much work done novel research into new techniques and new areas of usage is far from over This book presents some new theoretical as well as practical aspects of evolutionary computation This book will be of great value to undergraduates graduate students researchers in computer science and anyone else with an interest in learning about the latest developments in evolutionary computation

Advances in Differential Evolution Uday K. Chakraborty, 2008-07-23 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

Advances in Artificial Life and Evolutionary Computation Clara Pizzuti, Giandomenico Spezzano, 2014-11-03 This book constitutes the revised selected papers of the 9th Italian Workshop on Advances in Artificial Life and Evolutionary Computation held in Vietri sul Mare Italy in May 2014 in conjunction with the 24th Italian Workshop on Neural Networks WIRN 2014 The 16 papers presented have been thoroughly reviewed and selected from 40 submissions They cover the following topics artificial neural networks fuzzy inference systems rough set approximate reasoning and optimization methods such as evolutionary computation swarm intelligence particle swarm optimization

Advances in Evolutionary Algorithms Witold Kosinski, 2008

New Achievements in Evolutionary Computation Peter Korosec, 2010-02-01 Evolutionary computation has been widely used in computer science for decades Even though it started as far back as the 1960s with simulated evolution the subject is still evolving During this time new metaheuristic optimization approaches like evolutionary algorithms genetic algorithms swarm intelligence etc were being developed and new fields of usage in artificial intelligence machine learning combinatorial and numerical optimization etc were being explored However even with so much work done novel research into new techniques and new areas of usage is far from over This book presents some new theoretical as well as practical aspects of evolutionary computation This book will be of great value to undergraduates graduate students researchers in computer science and anyone else with an interest in learning about the latest developments in evolutionary computation

Advances in Computational Intelligence Joan Cabestany, Ignacio Rojas, Gonzalo Joya, 2011-05-30 This two volume set LNCS 6691 and 6692 constitutes the refereed proceedings of the 11th International Work Conference on Artificial Neural Networks IWANN 2011 held in Torremolinos M laga Spain in June 2011 The 154 revised papers were carefully reviewed and selected from 202 submissions for presentation in two volumes The second volume includes 76 papers organized in topical sections on video and image processing hybrid

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Unveiling the Magic of Words: A Overview of "**Advances In Evolutionary Computing**"

In some sort of defined by information and interconnectivity, the enchanting power of words has acquired unparalleled significance. Their capability to kindle emotions, provoke contemplation, and ignite transformative change is really awe-inspiring. Enter the realm of "**Advances In Evolutionary Computing**," a mesmerizing literary masterpiece penned by 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 into the book is central themes, examine its distinctive writing style, and assess its profound affect the souls of its readers.

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