

Ashish Ghosh · Shigeyoshi Tsutsui (Eds.)

# Advances in Evolutionary Computing

Theory and Applications



Springer

# Advances In Evolutionary Computing

**Shengxiang Yang, Yew-Soon  
Ong, Yaochu Jin**

## Advances In Evolutionary Computing:

**Advances in Evolutionary Computing** Ashish Ghosh, Shigeyoshi Tsutsui, 2002-11-26 This book provides a collection of fourty 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 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 Algorithms in Engineering and Computer*

*Science* K. Miettinen, 1999-07-09 Evolutionary Algorithms in Engineering and Computer Science Edited by K Miettinen

University of Jyv skyl Finland M M M kel University of Jyv skyl Finland P Neittaanm ki University of Jyv skyl 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 Recent Advances in

Evolutionary Computation for Combinatorial Optimization Carlos Cotta, 2008-08-26 This cutting edge 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 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 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 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 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 Algorithms**

Chang Wook Ahn,2007-05-22 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 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

*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 Scientific Technical Proceedings ISTP CDROM version ISI Proceedings CC

Proceedings Engineering Physical Sciences **Recent advances in evolutionary computing** Nikos E. Mastorakis,WSEAS (Organization),2009

**Recent Advances in Evolutionary Multi-objective Optimization** Slim Bechikh,Rituparna Datta,Abhishek Gupta,2016-08-09 This book covers the most recent advances in the field of evolutionary multiobjective optimization With the aim of drawing the attention of up and coming scientists towards exciting prospects at the forefront of computational intelligence the authors have made an effort to ensure that the ideas conveyed herein are accessible to the widest audience The book begins with a summary of the basic concepts in multi objective optimization This is followed by brief discussions on various algorithms that have been proposed over the years for solving such problems ranging from classical mathematical approaches to sophisticated evolutionary ones that are capable of seamlessly tackling practical challenges such as non convexity multi modality the presence of multiple constraints etc Thereafter some of the key emerging aspects that are likely to shape future research directions in the field are presented These include optimization in dynamic environments multi objective bilevel programming handling high dimensionality under many objectives and evolutionary multitasking In addition to theory and methodology this book describes several real world applications from various domains which will expose the readers to the versatility of evolutionary multi objective optimization 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

Evolutionary Computation in Dynamic and Uncertain Environments Shengxiang Yang,Yew-Soon Ong,Yaochu Jin,2007-03-07 This book compiles recent advances of evolutionary algorithms in dynamic and uncertain environments within a unified framework The book is motivated by the fact that some degree of uncertainty is inevitable in characterizing any realistic engineering systems Discussion includes representative methods for addressing major sources of uncertainties in evolutionary computation including handle of noisy fitness functions use of approximate fitness functions search for robust solutions and tracking moving optima

*Theory of Evolutionary Computation* Benjamin Doerr,Frank

Neumann,2019-11-20 This edited book reports on recent developments in the theory of evolutionary computation or more generally the domain of randomized search heuristics It starts with two chapters on mathematical methods that are often used in the analysis of randomized search heuristics followed by three chapters on how to measure the complexity of a search heuristic black box complexity a counterpart of classical complexity theory in black box optimization parameterized complexity aimed at a more fine grained view of the difficulty of problems and the fixed budget perspective which answers the question of how good a solution will be after investing a certain computational budget The book then describes theoretical results on three important questions in evolutionary computation how to profit from changing the parameters during the run of an algorithm how evolutionary algorithms cope with dynamically changing or stochastic environments and how population diversity influences performance Finally the book looks at three algorithm classes that have only recently become the focus of theoretical work estimation of distribution algorithms artificial immune systems and genetic programming Throughout the book the contributing authors try to develop an understanding for how these methods work and why they are so successful in many applications The book will be useful for students and researchers in theoretical computer science and evolutionary computing

*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 *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

**Genetic Algorithms and Evolution Strategy in Engineering and Computer Science** D. Quagliarella,1998-01-21 A collection of state of the art lectures by experts in the field of theoretical numerical and applied aspects of genetic algorithms for the computational treatment of continuous discrete and combinatorial optimization problems The theory presented in this book has numerous applications in fluid dynamics structure mechanics electromagnetic automation control resource optimization image processing and economics

**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

*Massively Parallel Evolutionary Computation on GPGPUs* Shigeyoshi Tsutsui,Pierre Collet,2013-12-05 Evolutionary algorithms EAs are metaheuristics that learn from natural collective behavior and are applied to solve optimization problems in domains such as scheduling engineering bioinformatics and finance Such applications demand acceptable solutions with high speed execution using finite computational resources Therefore there have been many attempts to develop platforms for running parallel EAs using multicore machines massively parallel cluster machines or grid computing environments Recent advances in general purpose computing on graphics processing units GPGPU have opened up this possibility for parallel EAs and this is the first book dedicated to this exciting development The three chapters of Part I are tutorials representing a

comprehensive introduction to the approach explaining the characteristics of the hardware used and presenting a representative project to develop a platform for automatic parallelization of evolutionary computing EC on GPGPUs The 10 chapters in Part II focus on how to consider key EC approaches in the light of this advanced computational technique in particular addressing generic local search tabu search genetic algorithms differential evolution swarm optimization ant colony optimization systolic genetic search genetic programming and multiobjective optimization The 6 chapters in Part III present successful results from real world problems in data mining bioinformatics drug discovery crystallography artificial chemistries and sudoku Although the parallelism of EAs is suited to the single instruction multiple data SIMD based GPU there are many issues to be resolved in design and implementation and a key feature of the contributions is the practical engineering advice offered This book will be of value to researchers practitioners and graduate students in the areas of evolutionary computation and scientific computing

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