
EFFICIENT AND ACCURATE PARALLEL GENETIC ALGORITHMS

Erick Cantú-Paz

Foreword
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at
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Parallel Genetic Algorithms

Joachim Stender



Parallel Genetic Algorithms:

Efficient and Accurate Parallel Genetic Algorithms Erick Cantú-Paz, 2000-11-30 As genetic algorithms GAs become increasingly popular they are applied to difficult problems that may require considerable computations In such cases parallel implementations of GAs become necessary to reach high quality solutions in reasonable times But even though their mechanics are simple parallel GAs are complex non linear algorithms that are controlled by many parameters which are not well understood Efficient and Accurate Parallel Genetic Algorithms is about the design of parallel GAs It presents theoretical developments that improve our understanding of the effect of the algorithm s parameters on its search for quality and efficiency These developments are used to formulate guidelines on how to choose the parameter values that minimize the execution time while consistently reaching solutions of high quality Efficient and Accurate Parallel Genetic Algorithms can be read in several ways depending on the readers interests and their previous knowledge about these algorithms Newcomers to the field will find the background material in each chapter useful to become acquainted with previous work and to understand the problems that must be faced to design efficient and reliable algorithms Potential users of parallel GAs that may have doubts about their practicality or reliability may be more confident after reading this book and understanding the algorithms better Those who are ready to try a parallel GA on their applications may choose to skim through the background material and use the results directly without following the derivations in detail These readers will find that using the results can help them to choose the type of parallel GA that best suits their needs without having to invest the time to implement and test various options Once that is settled even the most experienced users dread the long and frustrating experience of configuring their algorithms by trial and error The guidelines contained herein will shorten dramatically the time spent tweaking the algorithm although some experimentation may still be needed for fine tuning Efficient and Accurate Parallel Genetic Algorithms is suitable as a secondary text for a graduate level course and as a reference for researchers and practitioners in industry

Parallel Genetic Algorithms Gabriel Luque, Enrique Alba, 2011-06-15 This book is the result of several years of research trying to better characterize parallel genetic algorithms pGAs as a powerful tool for optimization search and learning Readers can learn how to solve complex tasks by reducing their high computational times Dealing with two scientific fields parallelism and GAs is always difficult and the book seeks at gracefully introducing from basic concepts to advanced topics The presentation is structured in three parts The first one is targeted to the algorithms themselves discussing their components the physical parallelism and best practices in using and evaluating them A second part deals with the theory for pGAs with an eye on theory to practice issues A final third part offers a very wide study of pGAs as practical problem solvers addressing domains such as natural language processing circuits design scheduling and genomics This volume will be helpful both for researchers and practitioners The first part shows pGAs to either beginners and mature researchers looking for a unified view of the two fields GAs and parallelism The second part partially solves and also opens

new investigation lines in theory of pGAs The third part can be accessed independently for readers interested in applications The result is an excellent source of information on the state of the art and future developments in parallel GAs Genetic Algorithm Reeta,Shailesh Kumar Patel,2016 Genetic algorithms GAs are powerful search techniques that are used successfully to solve problems in many different disciplines Parallel GAs are particularly easy to implement and promise substantial gains in performance Genetic Algorithms GAs are powerful search techniques that are used to solve difficult problems in many disciplines This study attempts to collect organize and present in a unified way some of the most representative publications on parallel genetic algorithms To organize the literature the paper presents a categorization of the techniques used to parallelize GAs and shows examples of all of them However since the majority of the research in this field has concentrated on parallel GAs with multiple populations the study focuses on this type of algorithms Also the paper describes some of the most significant problems in modeling and designing multi population parallel GAs and presents some recent advancement Parallel Genetic Algorithms Joachim Stender,1993 *Parallel Genetic Algorithms for Financial Pattern Discovery Using GPUs* João Baúto,Rui Neves,Nuno Horta,2018-02-03 This Brief presents a study of SAX GA an algorithm to optimize market trading strategies to understand how the sequential implementation of SAX GA and genetic operators work to optimize possible solutions This study is later used as the baseline for the development of parallel techniques capable of exploring the identified points of parallelism that simply focus on accelerating the heavy duty fitness function to a full GPU accelerated GA Parallel Genetic Algorithms on Distributed-memory Architectures Ricardo G. Bianchini,University of Rochester. Department of Computer Science,C. M. Brown,1992 **The Practical Handbook of Genetic Algorithms** Lance D. Chambers,2019-09-17 The mathematics employed by genetic algorithms GAs are among the most exciting discoveries of the last few decades But what exactly is a genetic algorithm A genetic algorithm is a problem solving method that uses genetics as its model of problem solving It applies the rules of reproduction gene crossover and mutation to pseudo organism **Genetic Algorithms in Optimisation, Simulation and Modelling** Joachim Stender,E. Hillebrand,J. Kingdon,1994 This book examines the implementation and applications of genetic algorithms GA to the domain of AI In recent years the trend towards real world applications is fgaining ground especially in GA The general purpose nature of GA is examined from an interdisciplinary point of view Despite the differences that may exist in between representations across domain problems the commonality of in the design of GA is upheld This work provides an overview of the current developments in Europe a section is devoted to the progrmaming of Parallel Genetic Algorithms including GAME and a section on Optimisation and Complex Modelling Readers researchers in AI mathematics and computing *Parallel Genetic Algorithms* Daniel R. Pedersen,1998 Although solutions to many problems can be found using direct analytical methods such as those calculus provides many problems simply are too large or too difficult to solve using traditional techniques Genetic algorithms provide an indirect approach to solving those problems A genetic algorithm applies

biological genetic procedures and principles to a randomly generated collection of potential solutions The result is the evolution of new and better solutions Coarse Grained Parallel Genetic Algorithms extend the basic genetic algorithm by introducing genetic isolation and distribution of the problem domain This thesis compares the capabilities of a serial genetic algorithm and three coarse grained parallel genetic algorithms a standard parallel algorithm a non uniform parallel algorithm and an adaptive parallel algorithm The evaluation is done using an instance of the traveling salesman problem It is shown that while the standard coarse grained parallel algorithm provides more consistent results than the serial genetic algorithm the adaptive distributed algorithm out performs them both To facilitate this analysis an extensible object oriented library for genetic algorithms encompassing both serial and coarse grained parallel genetic algorithms was developed The Java programming language was used throughout

Abstract Practical Handbook of Genetic Algorithms Lance D. Chambers, 2019-09-17 Practical Handbook of Genetic Algorithms Volume 3 Complex Coding Systems contains computer code examples for the development of genetic algorithm systems compiling them from an array of practitioners in the field Each contribution of this singular resource includes unique code segments documentation descripti

Selection in Massively Parallel Genetic Algorithms R. J. Collins, D. R. Jefferson, 1991 Abstract The availability of massively parallel computers makes it possible to apply genetic algorithms to large populations and very complex applications Among these applications are studies of natural evolution in the emerging field of artificial life which place special demands on the genetic algorithm In this paper we characterize the difference between panmictic and local selection mating schemes in terms of diversity of alleles diversity of genotypes the inbreeding coefficient and the speed and robustness of the genetic algorithm Based on these metrics local mating appears to not only be superior to panmictic for artificial evolutionary simulations but also for more traditional applications of genetic algorithms

Efficacy of Parallel Genetic Algorithms Shailesh U. Hegde, 1988

Designing Efficient and Accurate Parallel Genetic Algorithms Erick Cantu-Paz, 1999

Parallel genetic algorithms with local search Christopher L. Huntley, 1991

A Survey on the Parallel Genetic Algorithms Jongho Nang, Kazuhiro Matsuo, 1993

Obstacle Avoidance In Multi-robot Systems, Experiments In Parallel Genetic Algorithms Mark A C Gill, Albert Y Zomaya, 1998-06-17 Obstacle Avoidance in Multi robot Systems Experiments in Parallel Genetic Algorithms offers a novel framework for solving the path planning problem for robot manipulators Simple and efficient solutions are proposed for the path planning problem based on genetic algorithms One of the attractive features of genetic algorithms is their ability to solve formidable problems in a robust and straightforward manner Moreover genetic algorithms are inherently parallel in nature which makes them ideal candidates for parallel computing implementations By combining the robustness of genetic algorithms with the power of parallel computers this book provides an effective and practical approach to solving path planning problems The book gives details of implementations that allow a better understanding of the complexities involved in the development of parallel path planning algorithms The material presented is interdisciplinary in

nature it combines topics from robotics genetic algorithms and parallel processing The book can be used by practitioners and researchers in computer science and engineering *A Massively Distributed Parallel Genetic Algorithm* Shumeet

Baluja,1992 On the seventeen test problems attempted the mdpGA did significantly better than a simple parallel GA The massive distribution of the GA and the modified population topology yield improvements in speed and also prove to be far less vulnerable than other genetic algorithms to biases in the function space which lead away from global optima

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Laurence D. Merkle (CAPT, USAF.),1992 **A Massively Distributed Parallel Genetic Algorithm** Shumeet Baluja,1992

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