
EFFICIENT AND ACCURATE PARALLEL GENETIC ALGORITHMS

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Efficient And Accurate Parallel Genetic Algorithms

Arturo Cuomo



Efficient And Accurate Parallel Genetic Algorithms:

Efficient and Accurate Parallel Genetic Algorithms Erick Cantú-Paz, 2012-12-06 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

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

Handbook of Bioinspired Algorithms and Applications Stephan Olariu, Albert Y. Zomaya, 2005-09-29 The mystique of biologically inspired or bioinspired paradigms is their ability to describe and solve complex relationships from intrinsically very simple initial conditions and with little or no knowledge of the search space Edited by two prominent well respected researchers the Handbook of Bioinspired Algorithms and Applications reveals the

Adaptive and Natural Computing Algorithms Bartlomiej Beliczynski, Andrzej Dzielinski, Marcin Iwanowski, Bernadete Ribeiro, 2007-07-03 This two volume set constitutes the refereed proceedings of the 8th International Conference on Adaptive and Natural Computing Algorithms ICANNGA 2007 held in Warsaw Poland in April 2007 Coverage in the first volume includes evolutionary computation genetic algorithms and particle swarm optimization The second volume covers neural networks support vector machines biomedical signal and image processing biometrics computer vision

Parameter Setting in Evolutionary Algorithms F.J.

Lobo, Cláudio F. Lima, Zbigniew Michalewicz, 2007-04-03 One of the main difficulties of applying an evolutionary algorithm or as a matter of fact any heuristic method to a given problem is to decide on an appropriate set of parameter values. Typically these are specified before the algorithm is run and include population size, selection rate, operator probabilities, not to mention the representation and the operators themselves. This book gives the reader a solid perspective on the different approaches that have been proposed to automate control of these parameters, as well as understanding their interactions. The book covers a broad area of evolutionary computation, including genetic algorithms, evolution strategies, genetic programming, estimation of distribution algorithms, and also discusses the issues of specific parameters used in parallel implementations, multi-objective evolutionary algorithms, and practical considerations for real-world applications. It is a recommended read for researchers and practitioners of evolutionary computation and heuristic methods. *Computational Intelligence* Nazmul Siddique, Hojjat Adeli, 2013-05-06 *Computational Intelligence Synergies of Fuzzy Logic, Neural Networks, and Evolutionary Computing* presents an introduction to some of the cutting-edge technological paradigms under the umbrella of computational intelligence. Computational intelligence schemes are investigated with the development of a suitable framework for fuzzy logic, neural networks, and evolutionary computing, neuro-fuzzy systems, evolutionary fuzzy systems, and evolutionary neural systems. Applications to linear and non-linear systems are discussed with examples. Key features: Covers all the aspects of fuzzy, neural, and evolutionary approaches with worked-out examples, MATLAB exercises, and applications in each chapter. Presents the synergies of technologies of computational intelligence, such as evolutionary fuzzy, neural, fuzzy, and evolutionary neural systems. Considers real-world problems in the domain of systems modelling, control, and optimization. Contains a foreword written by Lotfi Zadeh. *Computational Intelligence Synergies of Fuzzy Logic, Neural Networks, and Evolutionary Computing* is an ideal text for final-year undergraduate, postgraduate, and research students in electrical control, computer, industrial, and manufacturing engineering. [Applications of Evolutionary Computation](#) Cecilia Di Chio, Stefano Cagnoni, Carlos Cotta, Marc Ebner, Aniko Ekart, Anna I. Esparcia-Alcázar, Chi-Keong Goh, Juan J. Merelo, Mike Preuss, Ferrante Neri, Julian Togelius, Georgios N. Yannakakis, 2010-03-25 *Evolutionary Computation* EC techniques are efficient, nature-inspired methods based on the principles of natural evolution and genetics. Due to their efficiency and simple underlying principles, these methods can be used for a diverse range of activities, including problem solving, optimization, machine learning, and pattern recognition. A large and continuously increasing number of researchers and professionals make use of EC techniques in various application domains. This volume presents a careful selection of relevant EC examples, combined with a thorough examination of the techniques used in EC. The papers in the volume illustrate the current state of the art in the application of EC and should help and inspire researchers and professionals to develop efficient EC methods for design and problem solving. All papers in this book were presented during EvoApplications 2010, which included a range of events on application-oriented aspects of EC. Since 1998, EvoApplications (formerly known as EvoWorkshops) has provided a unique opportunity for EC.

researchers to meet and discuss application aspects of EC and has been an important link between EC research and its application in a variety of domains During these 12 years new events have arisen some have disappeared while others have matured to become conferences of their own such as EuroGP in 2000 EvoCOP in 2004 and EvoBIO in 2007 And from this year EvoApplications has become a conference as well

Parallel Combinatorial Optimization El-Ghazali Talbi, 2006-10-13 This text provides an excellent balance of theory and application that enables you to deploy powerful algorithms frameworks and methodologies to solve complex optimization problems in a diverse range of industries Each chapter is written by leading experts in the fields of parallel and distributed optimization Collectively the contributions serve as a complete reference to the field of combinatorial optimization including details and findings of recent and ongoing investigations

Practical Genetic Algorithms Randy L. Haupt, Sue Ellen Haupt, 2004-05-31 Randy Haupt and Sue Ellen Haupt both affiliated with The Pennsylvania State University Applied Research Laboratory emphasize practical applications rather than theory in this second edition of a book CD ROM guide for practicing scientists engineers economists artists and others interested in the basics of genetic algorithms GAs This edition contains code in both MATLAB and High Performance Fortran on the CD ROM plus expanded information on methods for improving GA performance and a new chapter on other artificial intelligence methods of optimization such as simulated annealing and ant colony optimization Chapter exercises allow the book to be used as a text Annotation 2004 Book News Inc Portland OR booknews.com

[Nesting of Irregular Shapes Using a Parallel Genetic Algorithm and Feature Matching](#) Anand Uday, 2001

Genetic and Evolutionary Computation Conference, 2005

Proceedings of the ... Congress on Evolutionary Computation, 2000

Structural Health Monitoring: Research and Applications Wing Kong Chiu, Steve C. Galea, 2013-06-27 Selected peer reviewed papers from the 4th Asia Pacific Workshop on Structural Health Monitoring December 5 7 2012 Melbourne Australia

GECCO 2005 Hans-Georg Beyer, 2005

Encyclopedia of Computer Science and Technology Phillip A. Laplante, 2017-10-02 With breadth and depth of coverage the Encyclopedia of Computer Science and Technology Second Edition has a multi disciplinary scope drawing together comprehensive coverage of the inter related aspects of computer science and technology The topics covered in this encyclopedia include General and reference Hardware Computer systems organization Networks Software and its engineering Theory of computation Mathematics of computing Information systems Security and privacy Human centered computing Computing methodologies Applied computing Professional issues Leading figures in the history of computer science The encyclopedia is structured according to the ACM Computing Classification System CCS first published in 1988 but subsequently revised in 2012 This classification system is the most comprehensive and is considered the de facto ontological framework for the computing field The encyclopedia brings together the information and historical context that students practicing professionals researchers and academicians need to have a strong and solid foundation in all aspects of computer science and technology

Proceedings of the 2000 Congress on

Evolutionary Computation ,2000 Parallel Evolutionary Computations Nadia Nedjah, Enrique Alba, Luiza de Macedo Mourelle, 2006-05-08 Parallel Evolutionary Computation focuses on the aspects related to the parallelization of evolutionary computations such as parallel genetic operators parallel fitness evaluation distributed genetic algorithms and parallel hardware implementations as well as on their impact on several applications The book is divided into four parts The first part deals with a clear software like and algorithmic vision on parallel evolutionary optimizations The second part is about hardware implementations of genetic algorithms a valuable topic which is hard to find in the present literature The third part treats the problem of distributed evolutionary computation and presents three interesting applications wherein parallel EC new ideas are featured Finally the last part deals with the up to date field of parallel particle swarm optimization to illustrate the intrinsic similarities and potential extensions to techniques in this domain The book offers a wide spectrum of sample works developed in leading research throughout the world about parallel implementations of efficient techniques at the heart of computational intelligence It will be useful both for beginners and experienced researchers in the field of computational intelligence

XIV Brazilian Symposium on Computer Graphics and Image Processing DÍbio Leandro Borges, Shin-Ting Wu, 2001 Annotation Consists of 47 papers and 38 posters presented at the October 2001 symposium The main areas of discussion are geometric modeling pattern classification scale space and multi resolution processing mathematical morphology image compression aerial interpretation medical images segmentation and feature extraction Topics include robust adaptive approximation of implicit curves high level verification of handwritten numeral strings image synthesis techniques for ocean animation skeletal muscle deformation using finite element analysis and wavelet compression of vector field visualization No subject index c Book News Inc

Parallel Problem Solving from Nature--PPSN ... ,2004

Discrete and Continuous Dynamical Systems ,2004

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