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Genetic Algorithms in Java

Lee Jacobson, 2015-03-07 Genetic Algorithms in Java is an applied approach to learning and solving problems using genetic algorithms with working projects and solutions written in the Java programming language This book will guide you step by step through various implementations of Genetic Algorithms and some of their common applications with the aim to give you a practical understanding allowing you to solve your own unique individual problems After reading this book you will be comfortable with the language and concepts involved with Genetic Algorithms and you ll have everything you need to start building your own Genetic Algorithms are frequently used to solve highly complex real world problems and with this book you too can harness their problem solving capabilities Understanding how to utilize and implement genetic algorithms is an essential tool in any respected software developers toolkit So step into this intriguing topic and learn how you too can improve your software with genetic algorithms and see real Java code at work which you can develop further for your own projects and research Guides you through the theory behind genetic algorithms Explains how genetic algorithms can be used for software developers trying to solve a range of problems Provides a step by step guide to implementing genetic in Java algorithms

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Aboul Ella Hassanien, Khaled Shaalan, Tarek Gaber, Ahmad Taher Azar, M. F. Tolba, 2016-10-20 This book gathers the proceedings of the 2nd International Conference on Advanced Intelligent Systems and Informatics AISI2016 which took place in Cairo Egypt during October 24-26 2016 This international interdisciplinary conference which highlighted essential research and developments in the field of informatics and intelligent systems was organized by the Scientific Research Group in Egypt SRGE and sponsored by the IEEE Computational Intelligence Society Egypt chapter and the IEEE Robotics and

Automation Society Egypt Chapter The book's content is divided into four main sections Intelligent Language Processing Intelligent Systems Intelligent Robotics Systems and Informatics **Innovations in Smart Cities Applications Edition 2** Mohamed Ben Ahmed, Anouar Abdelhakim Boudhir, Ali Younes, 2019-02-06 This book highlights cutting edge research presented at the third installment of the International Conference on Smart City Applications SCA2018 held in T touan Morocco on October 10 11 2018 It presents original research results new ideas and practical lessons learned that touch on all aspects of smart city applications The respective papers share new and highly original results by leading experts on IoT Big Data and Cloud technologies and address a broad range of key challenges in smart cities including Smart Education and Intelligent Learning Systems Smart Healthcare Smart Building and Home Automation Smart Environment and Smart Agriculture Smart Economy and Digital Business and Information Technologies and Computer Science among others In addition various novel proposals regarding smart cities are discussed Gathering peer reviewed chapters written by prominent researchers from around the globe the book offers an invaluable instructional and research tool for courses on computer and urban sciences students and practitioners in computer science information science technology studies and urban management studies will find it particularly useful Further the book is an excellent reference guide for professionals and researchers working in mobility education governance energy the environment and computer sciences **PC AI**, 1997 Publisher's Monthly, 1999 **Conference Proceedings**, 2001 **26th Annual International Computer Software and Applications Conference** IEEE Computer Society, 2002 Collects the 172 papers presented during the August 2002 conference with the theme of Prolonging software life development and redevelopment The main subjects of the 38 sessions are component based software development software process quality control testing software evolution web based sy

Applied Evolutionary Algorithms in Java Robert Ghanea-Hercock, 2003-04-30 Genetic algorithms provide a powerful range of methods for solving complex engineering search and optimization algorithms Their power can also lead to difficulty for new researchers and students who wish to apply such evolution based methods Applied Evolutionary Algorithms in Java offers a practical hands on guide to applying such algorithms to engineering and scientific problems The concepts are illustrated through clear examples ranging from simple to more complex problems domains all based on real world industrial problems Examples are taken from image processing fuzzy logic control systems mobile robots and telecommunication network optimization problems The Java based toolkit provides an easy to use and essential visual interface with integrated graphing and analysis tools Topics and features inclusion of a complete Java toolkit for exploring evolutionary algorithms strong use of visualization techniques to increase understanding coverage of all major evolutionary algorithms in common usage broad range of industrially based example applications includes examples and an appendix based on fuzzy logic This book is intended for students researchers and professionals interested in using evolutionary algorithms in their work No mathematics beyond basic algebra and Cartesian graphs methods are required as the aim is to encourage applying the Java

toolkit to develop the power of these techniques Introduction to Genetic Algorithms S.N. Sivanandam, S. N. Deepa, 2007-10-24 The origin of evolutionary algorithms was an attempt to mimic some of the processes taking place in natural evolution. Although the details of biological evolution are not completely understood even nowadays, there exist some points supported by strong experimental evidence. Evolution is a process operating over chromosomes rather than over organisms. The former are organic tools encoding the structure of a living being, i.e., a creature is built decoding a set of chromosomes. Natural selection is the mechanism that relates chromosomes with the efficiency of the entity they represent, thus allowing that efficient organism which is well adapted to the environment to reproduce more often than those which are not. The evolutionary process takes place during the reproduction stage. There exists a large number of reproductive mechanisms in Nature. Most common ones are mutation that causes the chromosomes of offspring to be different to those of the parents and recombination that combines the chromosomes of the parents to produce the offspring. Based upon the features above, the three mentioned models of evolutionary computing were independently and almost simultaneously developed. Science Citation Index, 1992 Vols for 1964 have guides and journal lists *Genetic Algorithms in Search, Optimization, and Machine Learning* David Edward Goldberg, 1989 A gentle introduction to genetic algorithms. Genetic algorithms revisited. Mathematical foundations. Computer implementation of a genetic algorithm. Some applications of genetic algorithms. Advanced operators and techniques in genetic search. Introduction to genetics based machine learning. Applications of genetics based machine learning. A look back a glance ahead. A review of combinatorics and elementary probability. Pascal with random number generation for Fortran, Basic and COBOL programmers. A simple genetic algorithm. SGA in Pascal. A simple classifier system. SCS in Pascal. Partition coefficient transforms for problem coding analysis **Practical Genetic Algorithms** Randy L. Haupt, Sue Ellen Haupt, 2004-07-16 This book deals with the fundamentals of genetic algorithms and their applications in a variety of different areas of engineering and science. Most significant update to the second edition is the MATLAB codes that accompany the text. Provides a thorough discussion of hybrid genetic algorithms. Features more examples than first edition **Genetic Algorithms and Engineering Design** Mitsuo Gen, Runwei Cheng, 1997-01-21 Foundations of Genetic Algorithms. Constrained Optimization Problems. Combinatorial Optimization Problems. Reliability Optimization Problems. Flow Shop Sequencing Problems. Job Shop Scheduling Problems. Machine Scheduling Problems. Transportation Problems. Facility Layout Design Problems. Selected Topics in Engineering Design Genetic Algorithms + Data Structures = Evolution Programs Zbigniew Michalewicz, 2013-03-09 Genetic algorithms are founded upon the principle of evolution, i.e., survival of the fittest. Hence, evolution programming techniques based on genetic algorithms are applicable to many hard optimization problems such as optimization of functions with linear and nonlinear constraints, the traveling salesman problem, and problems of scheduling, partitioning, and control. The importance of these techniques has been growing in the last decade since evolution programs are parallel in nature and parallelism is one of the most promising directions in

computer science The book is self contained and the only prerequisite is basic undergraduate mathematics It is aimed at researchers practitioners and graduate students in computer science and artificial intelligence operations research and engineering This second edition includes several new sections and many references to recent developments A simple example of genetic code and an index are also added Writing an evolution program for a given problem should be an enjoyable experience this book may serve as a guide to this task

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 Applications Rustem Popa, 2012-03-21 Genetic Algorithms GAs are one of several techniques in the family of Evolutionary Algorithms algorithms that search for solutions to optimization problems by evolving better and better solutions Genetic Algorithms have been applied in science engineering business and social sciences This book consists of 16 chapters organized into five sections The first section deals with some applications in automatic control the second section contains several applications in scheduling of resources and the third section introduces some applications in electrical and electronics engineering The next section illustrates some examples of character recognition and multi criteria classification and the last one deals with trading systems These evolutionary techniques may be useful to engineers and scientists in various fields of specialization who need some optimization techniques in their work and who may be using Genetic Algorithms in their applications for the first time These applications may be useful to many other people who are getting familiar with the subject of Genetic Algorithms

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Genetic Algorithms and Engineering Optimization Mitsuo Gen, Runwei Cheng, 1999-12-28 A comprehensive guide to a powerful new analytical tool by two of its foremost innovators The past decade has witnessed many exciting advances in the use of genetic algorithms GAs to solve optimization problems in everything from product design to scheduling and client server networking Aided by GAs analysts and designers now routinely evolve solutions to complex combinatorial and multiobjective optimization problems with an ease and rapidity unthinkable with conventional methods Despite the continued growth and refinement of this powerful analytical tool there continues to be a lack of up to date guides to contemporary GA optimization principles and practices Written by two of the world's leading experts in the field this book fills that gap in the literature Taking an intuitive approach Mitsuo Gen and Runwei Cheng employ numerous illustrations and real world examples to help readers gain a thorough understanding of basic GA concepts including encoding adaptation and genetic optimizations and to show how GAs

can be used to solve an array of constrained combinatorial multiobjective and fuzzy optimization problems Focusing on problems commonly encountered in industry especially in manufacturing Professors Gen and Cheng provide in depth coverage of advanced GA techniques for Reliability design Manufacturing cell design Scheduling Advanced transportation problems Network design and routing Genetic Algorithms and Engineering Optimization is an indispensable working resource for industrial engineers and designers as well as systems analysts operations researchers and management scientists working in manufacturing and related industries It also makes an excellent primary or supplementary text for advanced courses in industrial engineering management science operations research computer science and artificial intelligence

Genetic Algorithms and Genetic Programming Michael Affenzeller, Stefan Wagner, Stephan Winkler, Andreas Beham, 2009-04-09 Genetic Algorithms and Genetic Programming Modern Concepts and Practical Applications discusses algorithmic developments in the context of genetic algorithms GAs and genetic programming GP It applies the algorithms to significant combinatorial optimization problems and describes structure identification using HeuristicLab as a platform for al

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