

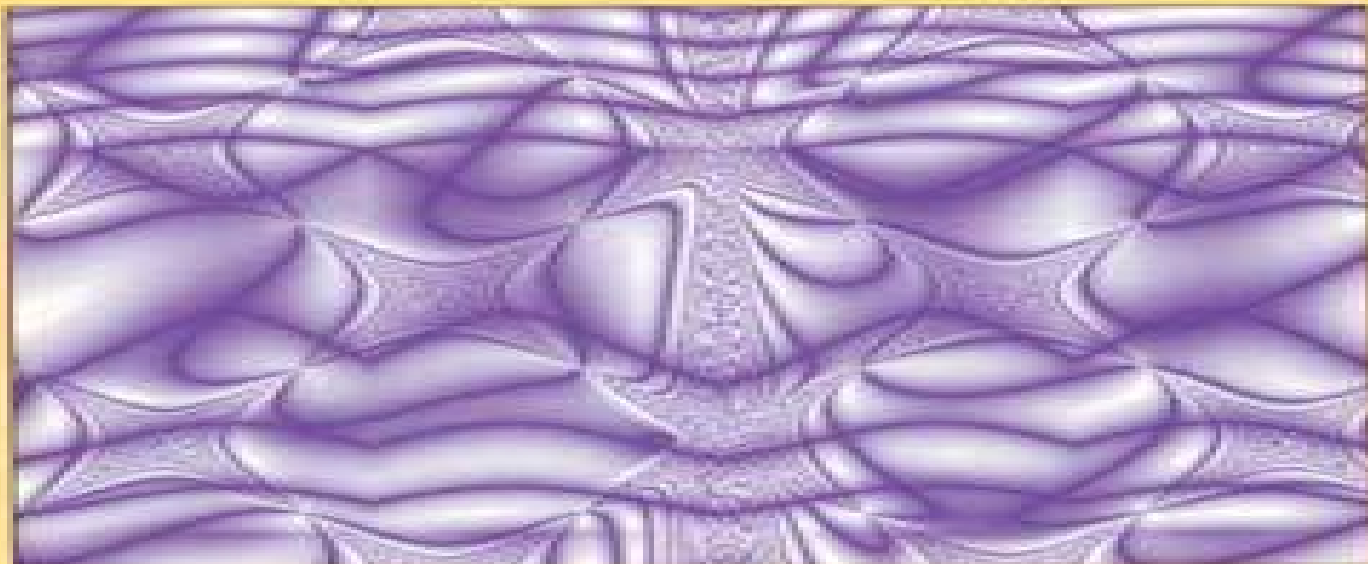
# GENETIC PROGRAMMING AND DATA STRUCTURES

Genetic Programming + Data Structures =  
Automatic Programming!

*by*

**William B. Langdon**

*With a Foreword by John R. Koza*



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# Genetic Programming And Data Structures

**Yaochu Jin**



## **Genetic Programming And Data Structures:**

**Genetic Programming and Data Structures** W.B. Langdon, 1998-04-30 Computers that program themselves has long been an aim of computer scientists Recently genetic programming GP has started to show its promise by automatically evolving programs Indeed in a small number of problems GP has evolved programs whose performance is similar to or even slightly better than that of programs written by people The main thrust of GP has been to automatically create functions While these can be of great use they contain no memory and relatively little work has addressed automatic creation of program code including stored data This issue is the main focus of Genetic Programming and Data Structures Genetic Programming Data Structures Automatic Programming This book is motivated by the observation from software engineering that data abstraction e g via abstract data types is essential in programs created by human programmers This book shows that abstract data types can be similarly beneficial to the automatic production of programs using GP Genetic Programming and Data Structures Genetic Programming Data Structures Automatic Programming shows how abstract data types stacks queues and lists can be evolved using genetic programming demonstrates how GP can evolve general programs which solve the nested brackets problem recognises a Dyck context free language and implements a simple four function calculator In these cases an appropriate data structure is beneficial compared to simple indexed memory This book also includes a survey of GP with a critical review of experiments with evolving memory and reports investigations of real world electrical network maintenance scheduling problems that demonstrate that Genetic Algorithms can find low cost viable solutions to such problems Genetic Programming and Data Structures Genetic Programming Data Structures Automatic Programming should be of direct interest to computer scientists doing research on genetic programming genetic algorithms data structures and artificial intelligence In addition this book will be of interest to practitioners working in all of these areas and to those interested in automatic programming

**Genetic Programming and Data Structures** William B. Langdon, 2012-12-06 Computers that program themselves has long been an aim of computer scientists Recently genetic programming GP has started to show its promise by automatically evolving programs Indeed in a small number of problems GP has evolved programs whose performance is similar to or even slightly better than that of programs written by people The main thrust of GP has been to automatically create functions While these can be of great use they contain no memory and relatively little work has addressed automatic creation of program code including stored data This issue is the main focus of Genetic Programming and Data Structures Genetic Programming Data Structures Automatic Programming This book is motivated by the observation from software engineering that data abstraction e g via abstract data types is essential in programs created by human programmers This book shows that abstract data types can be similarly beneficial to the automatic production of programs using GP Genetic Programming and Data Structures Genetic Programming Data Structures Automatic Programming shows how abstract data types stacks queues and lists can be evolved using genetic programming

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*Genetic Programming and Data Structures* W.B. Langdon, 2012-10-29 Computers that program themselves has long been an aim of computer scientists Recently genetic programming GP has started to show its promise by automatically evolving programs Indeed in a small number of problems GP has evolved programs whose performance is similar to or even slightly better than that of programs written by people The main thrust of GP has been to automatically create functions While these can be of great use they contain no memory and relatively little work has addressed automatic creation of program code including stored data This issue is the main focus of Genetic Programming and Data Structures Genetic Programming Data Structures Automatic Programming This book is motivated by the observation from software engineering that data abstraction e g via abstract data types is essential in programs created by human programmers This book shows that abstract data types can be similarly beneficial to the automatic production of programs using GP Genetic Programming and Data Structures Genetic Programming Data Structures Automatic Programming shows how abstract data types stacks queues and lists can be evolved using genetic programming demonstrates how GP can evolve general programs which solve the nested brackets problem recognises a Dyck context free language and implements a simple four function calculator In these cases an appropriate data structure is beneficial compared to simple indexed memory This book also includes a survey of GP with a critical review of experiments with evolving memory and reports investigations of real world electrical network maintenance scheduling problems that demonstrate that Genetic Algorithms can find low cost viable solutions to such problems Genetic Programming and Data Structures Genetic Programming Data Structures Automatic Programming should be of direct interest to computer scientists doing research on genetic programming genetic algorithms data structures and artificial intelligence In addition this book will be of interest to practitioners working in all of these areas and to those interested in automatic programming

**Genetic Programming and Data Structure** ,1996

**Genetic Programming** Sebastian Ventura Soto, 2012-10-18

Genetic programming GP is a branch of Evolutionary Computing that aims the automatic discovery of programs to solve a given problem Since its appearance in the earliest nineties GP has become one of the most promising paradigms for solving problems in the artificial intelligence field producing a number of human competitive results and even patentable new

inventions And as other areas in Computer Science GP continues evolving quickly with new ideas techniques and applications being constantly proposed The purpose of this book is to show recent advances in the field of GP both the development of new theoretical approaches and the emergence of applications that have successfully solved different real world problems The volume is primarily aimed at postgraduates researchers and academics although it is hoped that it may be useful to undergraduates who wish to learn about the leading techniques in GP

*Data Mining Using Grammar Based Genetic Programming and Applications* Man Leung Wong, Kwong Sak Leung, 2005-12-02 Data mining involves the non trivial extraction of implicit previously unknown and potentially useful information from databases Genetic Programming GP and Inductive Logic Programming ILP are two of the approaches for data mining This book first sets the necessary backgrounds for the reader including an overview of data mining evolutionary algorithms and inductive logic programming It then describes a framework called GGP Generic Genetic Programming that integrates GP and ILP based on a formalism of logic grammars The formalism is powerful enough to represent context sensitive information and domain dependent knowledge This knowledge can be used to accelerate the learning speed and or improve the quality of the knowledge induced A grammar based genetic programming system called LOGENPRO The LOGic grammar based GENetic PROgramming system is detailed and tested on many problems in data mining It is found that LOGENPRO outperforms some ILP systems We have also illustrated how to apply LOGENPRO to emulate Automatically Defined Functions ADFs to discover problem representation primitives automatically By employing various knowledge about the problem being solved LOGENPRO can find a solution much faster than ADFs and the computation required by LOGENPRO is much smaller than that of ADFs Moreover LOGENPRO can emulate the effects of Strongly Type Genetic Programming and ADFs simultaneously and effortlessly Data Mining Using Grammar Based Genetic Programming and Applications is appropriate for researchers practitioners and clinicians interested in genetic programming data mining and the extraction of data from databases

Genetic Programming Theory and Practice Rick Riolo, Bill Worzel, 2003-11-30 Genetic Programming Theory and Practice explores the emerging interaction between theory and practice in the cutting edge machine learning method of Genetic Programming GP The material contained in this contributed volume was developed from a workshop at the University of Michigan s Center for the Study of Complex Systems where an international group of genetic programming theorists and practitioners met to examine how GP theory informs practice and how GP practice impacts GP theory The contributions cover the full spectrum of this relationship and are written by leading GP theorists from major universities as well as active practitioners from leading industries and businesses Chapters include such topics as John Koza s development of human competitive electronic circuit designs David Goldberg s application of competent GA methodology to GP Jason Daida s discovery of a new set of factors underlying the dynamics of GP starting from applied research and Stephen Freeland s essay on the lessons of biology for GP and the potential impact of GP on evolutionary theory The book also includes chapters on the

dynamics of GP the selection of operators and population sizing specific applications such as stock selection in emerging markets predicting oil field production modeling chemical production processes and developing new diagnostics from genomic data Genetic Programming Theory and Practice is an excellent reference for researchers working in evolutionary algorithms and for practitioners seeking innovative methods to solve difficult computing problems , Illustrating Evolutionary Computation with Mathematica Christian Jacob,2001 Part 1 Fascinating Evolution Part 2 Evolutionary Computation Part 3 If Darwin was a Programmer Part 4 Evolution of Developmental Programs Machines, Computations, and Universality Jérôme Durand-Lose,2007-08-23 This book constitutes the refereed proceedings of the 5th International Conference on Machines Computations and Universality MCU 2007 held in Orleans France September 2007 The 18 revised full papers presented together with nine invited papers cover Turing machines register machines word processing cellular automata tiling of the plane neural networks molecular computations BSS machines infinite cellular automata real machines and quantum computing **Parallel Problem Solving from Nature - PPSN X** Günter Rudolph,Thomas Jansen,Simon M. Lucas,Carlo Poloni,Nicola Beume,2008-09-16 This book constitutes the refereed proceedings of the 10th International Conference on Parallel Problem Solving from Nature PPSN 2008 held in Dortmund Germany in September 2008 The 114 revised full papers presented were carefully reviewed and selected from 206 submissions The conference covers a wide range of topics such as evolutionary computation quantum computation molecular computation neural computation artificial life swarm intelligence artificial ant systems artificial immune systems self organizing systems emergent behaviors and applications to real world problems The paper are organized in topical sections on formal theory new techniques experimental analysis multiobjective optimization hybrid methods and applications **Natural Computing in Computational Finance** Anthony Brabazon,Michael O'Neill,2009-03-13 Recent years have seen the widespread application of Natural Computing algorithms broadly defined in this context as computer algorithms whose design draws inspiration from phenomena in the natural world for the purposes of financial modelling and optimisation A related stream of work has also seen the application of learning mechanisms drawn from Natural Computing algorithms for the purposes of agent based modelling in finance and economics In this book we have collected a series of chapters which illustrate these two faces of Natural Computing The first part of the book illustrates how algorithms inspired by the natural world can be used as problem solvers to uncover and optimise financial models The second part of the book examines a number agent based simulations of financial systems This book follows on from Natural Computing in Computational Finance Volume 100 in Springer s Studies in Computational Intelligence series which in turn arose from the success of EvoFIN 2007 the very first European Workshop on Evolutionary Computation in Finance Economics held in Valencia Spain in April 2007 Applications of Evolutionary Computing Günther Raidl,2003-04-07 This book constitutes the joint refereed proceedings of six workshops EvoWorkshops 2003 held together with EuroGP 2003 in Essex UK in April 2003 The 63 revised full papers presented were carefully

reviewed and selected from a total of 109 submissions In accordance with the six workshops covered the papers are organized in topical sections on bioinformatics combinatorial optimization image analysis and signal processing evolutionary music and art evolutionary robotics and scheduling and timetabling Creative Evolutionary Systems Peter Bentley, David W. Corne, 2002 Written for computer scientists and students and computer literate artists designers and specialists in evolutionary computation this text brings together the most advanced work in the use of evolutionary computation for creative results

**Soft Computing in Engineering Design and Manufacturing** Pravir K. Chawdhry, Rajkumar Roy, Raj K. Pant, 2012-12-06 Soft Computing has emerged as an important approach towards achieving intelligent computational paradigms where key elements are learning from experience in the presence of uncertainties fuzzy belief functions and evolution of the computing strategies of the learning agent itself Fuzzy neural and evolutionary computing are the three major themes of soft computing The book presents original research papers dealing with the theory of soft computing and its applications in engineering design and manufacturing The methodologies have been applied to a large variety of real life problems Application of soft computing has provided the opportunity to integrate human like vagueness and real life uncertainty to an otherwise hard computer programme Now a computer programme can learn adapt and evolve using soft computing The book identifies the strengths and limitations of soft computing techniques particularly with reference to their engineering applications The applications range from design optimisation to scheduling and image analysis Goal optimisation with incomplete information and under uncertainty is the key to solving real life problems in design and manufacturing Soft computing techniques presented in this book address these issues Computational complexity and efficient implementation of these techniques are also major concerns for realising useful industrial applications of soft computing The different parts in the book also address these issues The book contains 9 parts 8 of which are based on papers from the 2nd On line World Conference on Soft Computing in Engineering Design and Manufacture WSC2

*Computational Intelligence: A Compendium* John Fulcher, L. C. Jain, 2008-06-16 Computational Intelligence A Compendium presents a well structured overview about this rapidly growing field with contributions of leading experts in Computational Intelligence The main focus of the compendium is on applied methods tried and proven effective to realworld problems which is especially useful for practitioners researchers students and also newcomers to the field The 25 chapters are grouped into the following themes I Overview and Background II Data Preprocessing and Systems Integration III Artificial Intelligence IV Logic and Reasoning V Ontology VI Agents VII Fuzzy Systems VIII Artificial Neural Networks IX Evolutionary Approaches X DNA and Immune based Computing

*Fermentation Microbiology and Biotechnology, Fourth Edition* E. M. T. El-Mansi, Jens Nielsen, David Mousdale, Ross P. Carlson, 2018-12-17 Fermentation Microbiology and Biotechnology 4th Edition explores and illustrates the broad array of metabolic pathways employed for the production of primary and secondary metabolites as well as biopharmaceuticals This updated and expanded edition addresses the whole spectrum of fermentation biotechnology from

fermentation kinetics and dynamics to protein and co factor engineering It also sheds light on the new strategies employed by industrialist for increasing tolerance and endurance of microorganisms to the accumulation of toxic wastes in microbial cell factories The new edition builds upon the fine pedigree of its earlier predecessors and extends the spectrum of the book to reflect the multidisciplinary and buoyant nature of this subject area Key Features Covers the whole spectrum of the field from fermentation kinetics to control of fermentation and protein engineering Includes case studies specifically designed to illustrate industrial applications and current state of the art technologies Presents the contributions of eminent international academics and industrial experts Offers new chapters addressing The prospects and the role of bio fuels refineries Control of metabolic efflux to product formation in microbial cell factories and Improving tolerance of microorganisms to toxic byproduct accumulation in the fermentation vessel **Springer Handbook of Computational Intelligence** Janusz

Kacprzyk,Witold Pedrycz,2015-05-28 The Springer Handbook for Computational Intelligence is the first book covering the basics the state of the art and important applications of the dynamic and rapidly expanding discipline of computational intelligence This comprehensive handbook makes readers familiar with a broad spectrum of approaches to solve various problems in science and technology Possible approaches include for example those being inspired by biology living organisms and animate systems Content is organized in seven parts foundations fuzzy logic rough sets evolutionary computation neural networks swarm intelligence and hybrid computational intelligence systems Each Part is supervised by its own Part Editor s so that high quality content as well as completeness are assured **Advanced Fuzzy Systems Design and Applications** Yaochu Jin,2012-12-06 Fuzzy rule systems have found a wide range of applications in many fields of science and technology Traditionally fuzzy rules are generated from human expert knowledge or human heuristics for relatively simple systems In the last few years data driven fuzzy rule generation has been very active Compared to heuristic fuzzy rules fuzzy rules generated from data are able to extract more profound knowledge for more complex systems This book presents a number of approaches to the generation of fuzzy rules from data ranging from the direct fuzzy inference based to neural net works and evolutionary algorithms based fuzzy rule generation Besides the approximation accuracy special attention has been paid to the interpretability of the extracted fuzzy rules In other words the fuzzy rules generated from data are supposed to be as comprehensible to human beings as those generated from human heuristics To this end many aspects of interpretability of fuzzy systems have been discussed which must be taken into account in the data driven fuzzy rule generation In this way fuzzy rules generated from data are intelligible to human users and therefore knowledge about unknown systems can be extracted **Engineering Design Synthesis** Amaresh Chakrabarti,2013-03-09 This book is an attempt to bring together some of the most influential pieces of research that collectively underpin today s understanding of what constitutes and contributes to design synthesis and the approaches and tools for supporting this important activity The book has three parts Part 1 Understanding is intended to provide an overview of some of the major findings as to what



constitutes design synthesis and some of its major influencing factors Part 2 Approaches provides descriptions of some of the major prescriptive approaches to design synthesis that together influenced many of the computational tools described in the final part Part 3 Tool is a selection of the diverse range of computational approaches being developed to support synthesis in the major strands of synthesis research composition retrieval adaptation and change In addition the book contains an editorial introduction to the chapters and the broader context of research it represents and a supplementary bibliography to help locate this broader expanse of work With the wide variety of methods and tools covered this book is intended primarily for graduate students and researchers in product design and development but it will also be beneficial for educators and practitioners of engineering design for whom it should act as a valuable sourcebook of ideas for teaching or enhancing design creativity

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