

NATURAL COMPUTING SERIES

Julian F. Miller (Ed.)

# Cartesian Genetic Programming

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# Cartesian Genetic Programming Natural Computing Series

**Ting Hu, Nuno Lourenço, Eric Medvet**



## **Cartesian Genetic Programming Natural Computing Series:**

**Cartesian Genetic Programming** Julian F. Miller, 2011-09-18 Cartesian Genetic Programming CGP is a highly effective and increasingly popular form of genetic programming. It represents programs in the form of directed graphs and a particular characteristic is that it has a highly redundant genotype-phenotype mapping in that genes can be noncoding. It has spawned a number of new forms, each improving on the efficiency of the others: modular or embedded CGP and self-modifying CGP. It has been applied to many problems in both computer science and applied sciences. This book contains chapters written by the leading figures in the development and application of CGP and it will be essential reading for researchers in genetic programming and for engineers and scientists solving applications using these techniques. It will also be useful for advanced undergraduates and postgraduates seeking to understand and utilize a highly efficient form of genetic programming.

**Genetic Programming Theory and Practice X** Rick Riolo, Ekaterina Vladislavleva, Marylyn D Ritchie, Jason H. Moore, 2013-05-24 These contributions, written by the foremost international researchers and practitioners of Genetic Programming (GP), explore the synergy between theoretical and empirical results on real-world problems, producing a comprehensive view of the state of the art in GP. Topics in this volume include evolutionary constraints, relaxation of selection mechanisms, diversity preservation strategies, fitness evaluation, evolution in dynamic environments, multi-objective and multi-modal selection, foundations of evolvability, evolvable and adaptive evolutionary operators, foundation of injecting expert knowledge in evolutionary search, analysis of problem difficulty and required GP algorithm complexity, foundations in running GP on the cloud, communication, cooperation, flexible implementation, and ensemble methods. Additional focal points for GP symbolic regression are: 1. The need to guarantee convergence to solutions in the function discovery mode; 2. Issues on model validation; 3. The need for model analysis workflows for insight generation based on generated GP solutions; model exploration, visualization, variable selection, dimensionality analysis; 4. Issues in combining different types of data. Readers will discover large-scale real-world applications of GP to a variety of problem domains via in-depth presentations of the latest and most significant results.

**Genetic Programming** Penousal Machado, Malcolm I. Heywood, James McDermott, Mauro Castelli, Pablo García-Sánchez, Paolo Burelli, Sebastian Risi, Kevin Sim, 2015-03-14 This book constitutes the refereed proceedings of the 18th European Conference on Genetic Programming EuroGP 2015, held in Copenhagen, Spain, in April 2015, co-located with the Evo 2015 events: EvoCOP, EvoMUSART, and EvoApplications. The 12 revised full papers presented together with 6 poster papers were carefully reviewed and selected from 36 submissions. The wide range of topics in this volume reflects the current state of research in the field. Thus, we see topics as diverse as semantic methods, recursive programs, grammatical methods, coevolution, Cartesian GP, feature selection, initialisation procedures, ensemble methods, and search objectives and applications, including text processing, cryptography, numerical modelling, software parallelisation, creation and optimisation of circuits, multi-class classification, scheduling, and artificial intelligence.

*Genetic Programming*

Krzysztof Krawiec,Alberto Moraglio,Ting Hu,A. Sima Etaner-Uyar,Bin Hu,2013-03-14 This book constitutes the refereed proceedings of the 16th European Conference on Genetic Programming EuroGP 2013 held in Vienna Austria in April 2013 co located with the Evo 2013 events EvoMUSART EvoCOP EvoBIO and EvoApplications The 18 revised full papers presented together with 5 poster papers were carefully reviewed and selected from 47 submissions The wide range of topics in this volume reflects the current state of research in the field including different genres of GP tree based linear grammar based Cartesian theory novel operators and applications     Genetic Programming Ting Hu,Nuno Lourenço,Eric Medvet,2021-03-24 This book constitutes the refereed proceedings of the 24th European Conference on Genetic Programming EuroGP 2021 held as part of Evo 2021 as Virtual Event in April 2021 co located with the Evo 2021 events EvoCOP EvoMUSART and EvoApplications The 11 revised full papers and 6 short papers presented in this book were carefully reviewed and selected from 27 submissions The wide range of topics in this volume reflects the current state of research in the field The collection of papers cover interesting topics including developing new operators for variants of GP algorithms as well as exploring GP applications to the optimisation of machine learning methods and the evolution of complex combinational logic circuits     *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     **Genetic Programming** Mario Giacobini,Bing Xue,Luca Manzoni,2024-03-28 This book constitutes the refereed proceedings of the 27th European

Conference on Genetic Programming EuroGP 2024 held in Aberystwyth UK April 3 5 2024 and co located with the EvoStar events EvoCOP EvoMUSART and EvoApplications The 13 papers 9 selected for long presentation and 4 for short presentation collected in this book were carefully reviewed and selected from 24 submissions The wide range of topics in this volume reflects the current state of research in the field The collection of papers cover topics including developing new variants of GP algorithms as well as exploring GP applications to the optimization of machine learning methods and the evolution of control policies

*Parallel Problem Solving from Nature -- PPSN XIII* Thomas Bartz-Beielstein, Juergen Branke, Bogdan Filipič, James Smith, 2014-09-11 This book constitutes the refereed proceedings of the 13th International Conference on Parallel Problem Solving from Nature PPSN 2013 held in Ljubljana Slovenia in September 2014 The total of 90 revised full papers were carefully reviewed and selected from 217 submissions The meeting began with 7 workshops which offered an ideal opportunity to explore specific topics in evolutionary computation bio inspired computing and metaheuristics PPSN XIII also included 9 tutorials The papers are organized in topical sections on adaption self adaption and parameter tuning classifier system differential evolution and swarm intelligence coevolution and artificial immune systems constraint handling dynamic and uncertain environments estimation of distribution algorithms and metamodeling genetic programming multi objective optimisation parallel algorithms and hardware implementations real world applications and theory

**Mathematical and Engineering Methods in Computer Science** Petr Hliněný, Zdeněk Dvořák, Jiří Jaroš, Jan Kofroň, Jan Kořenek, Petr Matula, Karel Pala, 2014-12-31 This volume contains the post proceedings of the 9th Doctoral Workshop on Mathematical and Engineering Methods in Computer Science MEMICS 2014 held in Tel Czech Republic in October 2014 The 13 thoroughly revised papers were carefully selected out of 28 submissions and are presented together with 4 invited papers The topics covered by the papers include algorithms logic and games high performance computing computer aided analysis verification and testing hardware design and diagnostics computer graphics and image processing and artificial intelligence and natural language processing

Growing Adaptive Machines Taras Kowaliw, Nicolas Bredeche, René Doursat, 2014-06-04 The pursuit of artificial intelligence has been a highly active domain of research for decades yielding exciting scientific insights and productive new technologies In terms of generating intelligence however this pursuit has yielded only limited success This book explores the hypothesis that adaptive growth is a means of moving forward By emulating the biological process of development we can incorporate desirable characteristics of natural neural systems into engineered designs and thus move closer towards the creation of brain like systems The particular focus is on how to design artificial neural networks for engineering tasks The book consists of contributions from 18 researchers ranging from detailed reviews of recent domains by senior scientists to exciting new contributions representing the state of the art in machine learning research The book begins with broad overviews of artificial neurogenesis and bio inspired machine learning suitable both as an introduction to the domains and as a reference for experts Several contributions provide perspectives and future

hypotheses on recent highly successful trains of research including deep learning the Hyper NEAT model of developmental neural network design and a simulation of the visual cortex Other contributions cover recent advances in the design of bio inspired artificial neural networks including the creation of machines for classification the behavioural control of virtual agents the design of virtual multi component robots and morphologies and the creation of flexible intelligence Throughout the contributors share their vast expertise on the means and benefits of creating brain like machines This book is appropriate for advanced students and practitioners of artificial intelligence and machine learning

**Genetic Programming** Marc Ebner, 2007-04-02 This book constitutes the refereed proceedings of the 10th European Conference on Genetic Programming EuroGP 2007 held in Valencia Spain in April 2007 colocated with EvoCOP 2007 The 21 revised plenary papers and 14 revised poster papers were carefully reviewed and selected from 71 submissions The papers address fundamental and theoretical issues along with a wide variety of papers dealing with different application areas

*Intelligent Systems* Ricardo Cerri, Ronaldo C. Prati, 2020-10-15 The two volume set LNAI 12319 and 12320 constitutes the proceedings of the 9th Brazilian Conference on Intelligent Systems BRACIS 2020 held in Rio Grande Brazil in October 2020 The total of 90 papers presented in these two volumes was carefully reviewed and selected from 228 submissions The contributions are organized in the following topical section Part I Evolutionary computation metaheuristics constraints and search combinatorial and numerical optimization neural networks deep learning and computer vision and text mining and natural language processing Part II Agent and multi agent systems planning and reinforcement learning knowledge representation logic and fuzzy systems machine learning and data mining and multidisciplinary artificial and computational intelligence and applications Due to the Corona pandemic BRACIS 2020 was held as a virtual event

*Adapting Hardware Systems by Means of Multi-Objective Evolution* Paul Kaufmann, 2013 Reconfigurable circuit devices have opened up a fundamentally new way of creating adaptable systems Combined with artificial evolution reconfigurable circuits allow an elegant adaptation approach to compensating for changes in the distribution of input data computational resource errors and variations in resource requirements Referred to as Evolvable Hardware EHW this paradigm has yielded astonishing results for traditional engineering challenges and has discovered intriguing design principles which have not yet been seen in conventional engineering In this thesis we present new and fundamental work on Evolvable Hardware motivated by the insight that Evolvable Hardware needs to compensate for events with different change rates To solve the challenge of different adaptation speeds we propose a unified adaptation approach based on multi objective evolution evolving and propagating candidate solutions that are diverse in objectives that may experience radical changes Focusing on algorithmic aspects we enable Cartesian Genetic Programming CGP model which we are using to encode Boolean circuits for multi objective optimization by introducing a meaningful recombination operator We improve the scalability of CGP by objectives scaling periodization of local and global search algorithms and the automatic acquisition and reuse of subfunctions using age and

cone based techniques We validate our methods on the applications of adaptation of hardware classifiers to resource changes recognition of muscular signals for prosthesis control and optimization of processor caches

**Artificial Neural Networks and Machine Learning - ICANN 2018** Věra Kůrková, Yannis Manolopoulos, Barbara Hammer, Lazaros Iliadis, Ilias Maglogiannis, 2018-10-02 This three volume set LNCS 11139 11141 constitutes the refereed proceedings of the 27th International Conference on Artificial Neural Networks ICANN 2018 held in Rhodes Greece in October 2018 The papers presented in these volumes was carefully reviewed and selected from total of 360 submissions They are related to the following thematic topics AI and Bioinformatics Bayesian and Echo State Networks Brain Inspired Computing Chaotic Complex Models Clustering Mining Exploratory Analysis Coding Architectures Complex Firing Patterns Convolutional Neural Networks Deep Learning DL DL in Real Time Systems DL and Big Data Analytics DL and Big Data DL and Forensics DL and Cybersecurity DL and Social Networks Evolving Systems Optimization Extreme Learning Machines From Neurons to Neuromorphism From Sensation to Perception From Single Neurons to Networks Fuzzy Modeling Hierarchical ANN Inference and Recognition Information and Optimization Interacting with The Brain Machine Learning ML ML for Bio Medical systems ML and Video Image Processing ML and Forensics ML and Cybersecurity ML and Social Media ML in Engineering Movement and Motion Detection Multilayer Perceptrons and Kernel Networks Natural Language Object and Face Recognition Recurrent Neural Networks and Reservoir Computing Reinforcement Learning Reservoir Computing Self Organizing Maps Spiking Dynamics Spiking ANN Support Vector Machines Swarm Intelligence and Decision Making Text Mining Theoretical Neural Computation Time Series and Forecasting Training and Learning

**EngOpt 2018 Proceedings of the 6th International Conference on Engineering Optimization** H.C. Rodrigues, J. Herskovits, C.M. Mota Soares, A.L. Araújo, J.M. Guedes, J.O. Folgado, F. Moleiro, J. F. A. Madeira, 2018-09-13 The papers in this volume focus on the following topics design optimization and inverse problems numerical optimization techniques efficient analysis and reanalysis techniques sensitivity analysis and industrial applications The conference EngOpt brings together engineers applied mathematicians and computer scientists working on research development and practical application of optimization methods in all engineering disciplines and applied sciences

Progress in Artificial Intelligence Eugénio Oliveira, João Gama, Zita Vale, Henrique Lopes Cardoso, 2017-08-24 This book constitutes the refereed proceedings of the 18th EPIA Conference on Artificial Intelligence EPIA 2017 held in Porto Portugal in September 2017 The 69 revised full papers and 2 short papers presented were carefully reviewed and selected from a total of 177 submissions The papers are organized in 16 tracks devoted to the following topics agent based modelling for criminological research ABM4Crime artificial intelligence in cyber physical and distributed embedded systems AICPDES artificial intelligence in games AIG artificial intelligence in medicine AIM artificial intelligence in power and energy systems AIPES artificial intelligence in transportation systems AITS artificial life and evolutionary algorithms ALEA ambient intelligence and affective environments AmIA business applications of

artificial intelligence BAAI intelligent robotics IROBOT knowledge discovery and business intelligence KDBI knowledge representation and reasoning KRR multi agent systems theory and applications MASTA software engineering for autonomous and intelligent systems SE4AIS social simulation and modelling SSM and text mining and applications TeMA Parallel Problem Solving from Nature - PPSN XVII Günter Rudolph, Anna V. Kononova, Hernán Aguirre, Pascal Kerschke, Gabriela Ochoa, Tea Tušar, 2022-08-15 This two volume set LNCS 13398 and LNCS 13399 constitutes the refereed proceedings of the 17th International Conference on Parallel Problem Solving from Nature PPSN 2022 held in Dortmund Germany in September 2022 The 87 revised full papers were carefully reviewed and selected from numerous submissions The conference presents a study of computing methods derived from natural models Amorphous Computing Artificial Life Artificial Ant Systems Artificial Immune Systems Artificial Neural Networks Cellular Automata Evolutionary Computation Swarm Computing Self Organizing Systems Chemical Computation Molecular Computation Quantum Computation Machine Learning and Artificial Intelligence approaches using Natural Computing methods are just some of the topics covered in this field *Artificial Intelligence and Soft Computing* Leszek Rutkowski, Rafał Scherer, Marcin Korytkowski, Witold Pedrycz, Ryszard Tadeusiewicz, Jacek M. Zurada, 2025-02-25 The two volume set ICAISC 2024 15164 15165 and 15166 constitutes the refereed proceedings of the 23rd International Conference on Artificial Intelligence and Soft Computing ICAISC 2024 held in Zakopane Poland during June 16 20 2024 The 96 full papers included in this book were carefully reviewed and selected from 179 submissions They are organized in topical sections as follows Part I neural networks and their applications pattern classification Part II evolutionary algorithms and their applications artificial intelligence in modeling and simulation computer vision image and speech analysis Part III various problems of artificial intelligence bioinformatics biometrics and medical applications Genetic Programming Miguel Nicolau, Krzysztof Krawiec, Malcolm I. Heywood, Mauro Castelli, Pablo García-Sánchez, Juan J. Merelo, Victor Manuel Rivas Santos, Kevin Sim, 2014-08-21 The book constitutes the refereed proceedings of the 17th European Conference on Genetic Programming Euro GP 2014 held in Grenada Spain in April 2014 co located with the Evo 2014 events Evo BIO Evo COP Evo MUSART and Evo Applications The 15 revised full papers presented together with 5 poster papers were carefully reviewed and selected from 40 submissions The wide range of topics in this volume reflects the current state of research in the field Thus we see topics as diverse as search based software engineering image analysis dynamical systems evolutionary robotics and operational research to the foundations of search as characterized through semantic variation operators *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

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