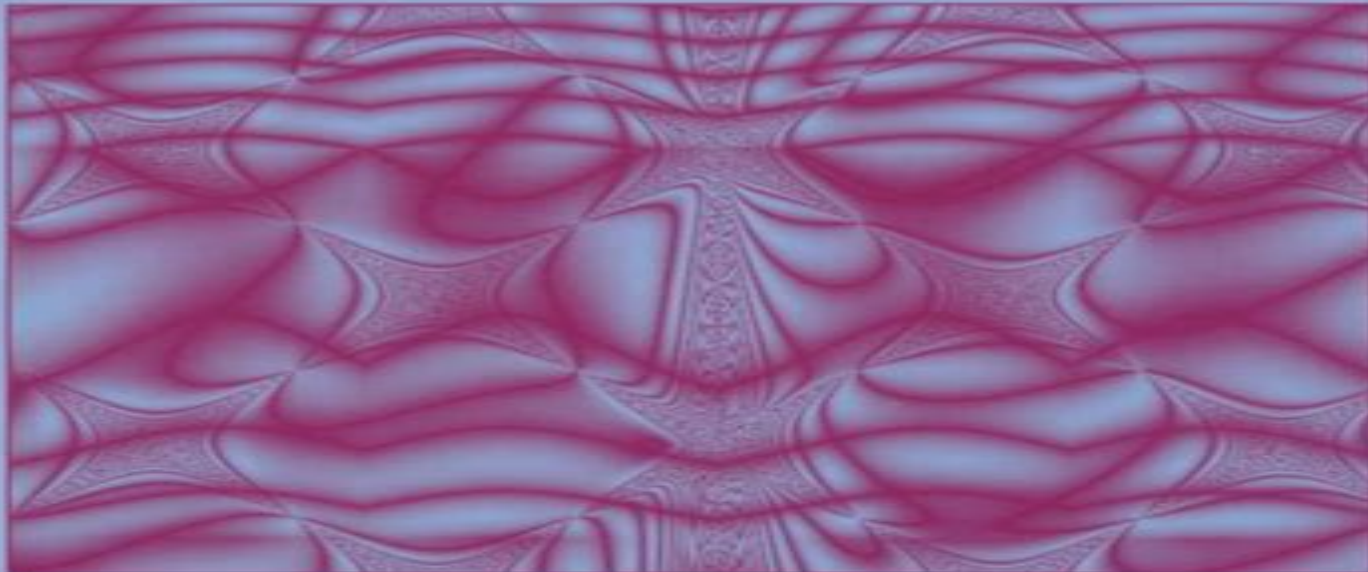


AUTOMATIC RE-ENGINEERING OF SOFTWARE USING GENETIC PROGRAMMING

by

Conor Ryan



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Automatic Re Engineering Of Software Using Genetic Programming

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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

Handbook of Genetic Programming

Applications Amir H. Gandomi, Amir H. Alavi, Conor Ryan, 2015-11-06 This contributed volume written by leading international researchers reviews the latest developments of genetic programming GP and its key applications in solving current real world problems such as energy conversion and management financial analysis engineering modeling and design and software engineering to name a few Inspired by natural evolution the use of GP has expanded significantly in the last decade in almost every area of science and engineering Exploring applications in a variety of fields the information in this volume can help optimize computer programs throughout the sciences Taking a hands on approach this book provides an invaluable reference to practitioners providing the necessary details required for a successful application of GP and its branches to challenging problems ranging from drought prediction to trading volatility It also demonstrates the evolution of GP through major developments in GP studies and applications It is suitable for advanced students who wish to use relevant book chapters as a basis to pursue further research in these areas as well as experienced practitioners looking to apply GP to new areas The book also offers valuable supplementary material for design courses and computation in engineering

Search-Based Software Engineering Márcio Barros, Yvan Labiche, 2015-07-27 This book constitutes the refereed proceedings of the 7th International Symposium on Search Based Software Engineering SSBSE 2015 held in Bergamo Italy in September 2015 The 12 revised full papers presented together with 2 invited talks 4 short papers 2 papers of the graduate track and 13 challenge track papers were carefully reviewed and selected from 51 submissions Search Based Software Engineering SBSE studies the application of meta heuristic optimization techniques to various software engineering problems ranging from requirements engineering to software testing and maintenance

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 IV John R. Koza, Martin A. Keane, Matthew J. Streeter, William Mydlowec, Jessen Yu, Guido Lanza, 2005-03-21 Genetic Programming IV Routine Human Competitive Machine Intelligence presents the application of GP to a wide variety of problems involving automated synthesis of controllers circuits antennas genetic networks and metabolic pathways The book describes fifteen instances where GP has created an entity that either infringes or duplicates the functionality of a previously patented 20th century invention six instances where it has done the same with respect to post 2000 patented inventions two instances where GP has created a patentable new invention and thirteen other human competitive results The book additionally establishes GP now delivers routine human competitive machine intelligence GP is an automated invention machine GP can create general solutions to problems in the form of parameterized topologies GP has delivered qualitatively more substantial results in synchrony with the relentless iteration of Moore's Law *Genetic Programming* Riccardo Poli, Wolfgang Banzhaf, William B. Langdon, Julian F. Miller, Peter Nordin, Terence C. Fogarty, 2004-05-24 This volume contains the proceedings of EuroGP 2000 the European Conference on Genetic Programming held in Edinburgh on the 15th and 16th April 2000 This event was the third in a series which started with the two European workshops EuroGP 98 held in Paris in April 1998 and EuroGP 99 held in Gothenburg in May 1999 EuroGP 2000 was held in conjunction with EvoWorkshops 2000 17th April and ICES 2000 17th 19th April Genetic Programming GP is a growing branch of Evolutionary Computation in which the structures in the population being evolved are computer programs GP has been applied successfully to a large number of difficult problems like automatic design pattern recognition robotic control synthesis of neural networks symbolic regression music and picture generation biomedical applications etc In recent years even human competitive results have been achieved by a number of groups EuroGP 2000 the first evolutionary computation conference of the new millennium was the biggest event devoted to genetic programming to be held in Europe in 2000 It was a high quality conference where state of the art work on the theory of GP and applications of GP to real world problems was presented

Genetic Programming Theory and Practice III Tina Yu, Rick Riolo, Bill Worzel, 2006-06-18 Genetic Programming Theory and Practice III provides both researchers and industry professionals with the most recent developments in GP theory and practice by exploring the emerging interaction between theory and practice in the cutting edge machine learning method of Genetic Programming GP The contributions developed from a third workshop at the University of Michigan's Center for the

Study of Complex Systems where leading international genetic programming theorists from major universities and active practitioners from leading industries and businesses meet to examine and challenge how GP theory informs practice and how GP practice impacts GP theory Applications are from a wide range of domains including chemical process control informatics and circuit design to name a few Machine Learning Applications in Software Engineering Du Zhang, Jeffrey J. P. Tsai, 2005
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