

Microcomputer Engineering 2004 571 Pages Gene H Miller

Genetic Programming and Data Structures Genetic Programming and Data Structures Genetic Programming Genetic Algorithms and Fuzzy Logic Systems Genetic Programming The Christian Union American Newspaper Directory A Manual of Diseases of the Throat and Nose The Publishers' Trade List Annual Geo. P. Rowell and Co.'s American Newspaper Directory Proceedings Mental Medicine Frankfort Directory for the Year 1883 Db Information Report Advances in Intelligent Data Analysis Bullinger's Postal and Shippers Guide for the United States and Canada and Newfoundland Abstracts in Biocommerce Agroborealis Genetic Psychology W.B. Langdon William B. Langdon Conor Ryan Elie Sanchez Henry Ward Beecher Morell Mackenzie Warren Felt Evans Edwin Asbury Kirkpatrick

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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

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this book constitutes the refereed proceedings of the 6th european conference on genetic programming eurogp 2003 held in essex uk in april 2003 the 45 revised papers presented were carefully reviewed and selected from 61 submissions all current

aspects of genetic programming and genetic algorithms are addressed ranging from foundational theoretical and methodological issues to advanced applications in various fields

ever since fuzzy logic was introduced by lotfi zadeh in the mid sixties and genetic algorithms by john holland in the early seventies these two fields widely been subjects of academic research the world over during the last few years they have been experiencing extremely rapid growth in the industrial world where they have been shown to be very effective in solving real world problems these two substantial fields together with neurocomputing techniques are recognized as major parts of soft computing a set of computing technologies already riding the waves of the next century to produce the human centered intelligent systems of tomorrow the collection of papers presented in this book shows the way the book also contains an extensive bibliography on fuzzy logic and genetic algorithms

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