

Genetic Programming Iii Darwinian Invention And Problem Solving Vol 3

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IV Computational Intelligence: A Compendium Subject-matter index of patents for inventions
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genetic programming gp is a method for getting a computer to solve a problem by telling it what
needs to be done instead of how to do it koza bennett andre and keane present genetically evolved
solutions to dozens of problems of design control classification system identification and
computational molecular biology among the solutions are 14 results competitive with human
produced results including 10 rediscoveries of previously patented inventions

this 45 minute videotape surveys the main points of the book genetic programming iii darwinian

invention and problem solving and presents genetically evolved solutions to problems of analog electrical circuit design optimal control classification system identification points function learning and computational molecular biology fourteen of the results are competitive with previously published human produced results and ten infringe on previously issued patents or duplicate the functionality of previously issued patents

this volume records the proceedings of the fifth european conference on genetic programming eurogp2002 which took place in Kinsale Ireland on April 3-5 2002 continuing an established tradition of yearly meetings among the most prominent researchers on genetic programming in Europe and beyond their proceedings have always been published in the Incs series by Springer Verlag eurogp began life in Paris in 1998 as an international workshop April 14-15 Incs 1391 a second workshop took place in Göteborg in 1999 May 26-27 Incs 1598 its first appearance as a conference was in the year 2000 in Edinburgh April 15-16 Incs 1802 followed by last year's conference held at Lake Como April 18-19 Incs 2038 since the beginning eurogp has been co-located with a series of specialist workshops on applications of evolutionary algorithms Incs 1468 1596 1803 and 2037 in keeping with that tradition the EvoWorkshops were also held in Kinsale this year at the same time Incs 2279 genetic programming gp is a branch of evolutionary computation in which populations of computer programs are made to evolve and adapt to solving a particular problem or task by a process that draws its inspiration from biology and Darwinian evolution gp is a very versatile technique which has been applied to a wide range of tasks as a quick inspection of the 32 papers in these proceedings will easily reveal economics robotics engineering statistics pharmacology electronics and nanotechnology are but some of the domains in which they have been employed although the rate of application of gp to problems is steadily growing this conference is characterized by its concern with the theoretical foundations of gp investigation of these issues is attaining an ever increasing depth and maturity

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

computational intelligence a compendium presents a well structured overview about this rapidly growing field with contributions from leading experts in computational intelligence the main focus of

the compendium is on applied methods tried and proven as being effective to realworld problems which is especially useful for practitioners researchers students and also newcomers to the field this state of handbook style book has contributions by leading experts

evolutionary algorithms are very powerful techniques used to find solutions to real world search and optimisation problems in this text a large spectrum of innovative evolutionary and intelligence methods are presented and used for solving various application problems

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