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Julian F. Miller (Ed.)

Cartesian Genetic Programming

 Springer

Cartesian Genetic Programming Author Julian F Miller
Oct 2011

Philip Thomas Cattani



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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 James A. Foster, Julian Miller, 2014-01-15 **Towards Understanding Crossover for Cartesian Genetic Programming** Henning Cui, Andreas Margraf, Michael Heider, Jörg Hähner, 2023 **Extending Cartesian Genetic Programming** Philip Thomas Cattani, 2014 **The Automatic Acquisition, Evolution and Re-use of Modules in Cartesian Genetic Programming**, 2007 **Genetic Programming Theory and Practice IX** Rick Riolo, Ekaterina Vladislavleva, Jason H. Moore, 2011-11-02. These contributions, written by the foremost international researchers and practitioners of Genetic Programming, 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 include modularity and scalability, evolvability, human competitive results, the need for important high-impact GP solvable problems, the risks of search stagnation and of cutting off paths to solutions, the need for novelty, empowering GP search with expert knowledge. In addition, GP symbolic regression is thoroughly discussed, addressing such topics as guaranteed reproducibility of SR, validating SR results, measuring and controlling genotypic complexity, controlling phenotypic complexity, identifying, monitoring, and avoiding overfitting, finding a comprehensive collection of SR benchmarks, comparing SR to machine learning. This text is for all GP explorers. 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. **Equidistant Reorder Operator for Cartesian Genetic Programming** Henning Cui, Andreas Margraf, Jörg Hähner, 2023 **Genetic Programming** Sara Silva, James A. Foster, Miguel Nicolau, 2011-03-30 **Advances in Genetic Programming** Kenneth E. Kinneer, 1994 **Genetic Programming Theory and Practice VII** Rick Riolo, Una-May O'Reilly, Trent McConaghy, 2009-11-07. Genetic Programming Theory and Practice VII presents the results of the annual Genetic Programming Theory and Practice Workshop, contributed by the foremost international researchers and practitioners in the GP arena. Contributions examine the similarities and differences between theoretical and empirical results on real-world problems and explore the synergy between theory and practice, producing a comprehensive view of the state of the art in GP application. Application areas include chemical process

control circuit design financial data mining and bio informatics to name a few About this book Discusses the hurdles encountered when solving large scale cutting edge applications provides in depth presentations of the latest and most significant applications of GP and the most recent theoretical results with direct applicability to state of the art problems Genetic Programming Theory and Practice VII is suitable for researchers practitioners and students of Genetic Programming including industry technical staffs technical consultants and business entrepreneurs

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