

Table of Contents

Representations

Boolean Functions Fitness Spaces	1
<i>W.B. Langdon and R. Poli</i>	
Meta-Evolution in Graph GP	15
<i>W. Kantschik, P. Dittrich, M. Brameier, and W. Banzhaf</i>	
Busy Beaver - the Influence of Representation	29
<i>P. Machado, F.B. Pereira, A. Cardoso, and E. Costa</i>	

Algorithms and Operators

Smooth Uniform Crossover with Smooth Point Mutation in Genetic Programming: A Preliminary Study	39
<i>J. Page, R. Poli, and W.B. Langdon</i>	
Phenotype Plasticity in Genetic Programming: A Comparison of Darwinian and Lamarckian Inheritance Schemes	49
<i>A. Esparcia-Alcazar and K. Sharman</i>	
Sub-machine-code GP: New Results and Extensions	65
<i>R. Poli</i>	
Evolving Multi-line Compilable C Programs	83
<i>M. O'Neill and C. Ryan</i>	

Applications

Genetic Programming as a Darwinian Invention Machine	93
<i>J.R. Koza, F.H. Bennett III, and O. Stiffelman</i>	
Genetic Programming of a Goal-Keeper Control Strategy for the RoboCup Middle Size Competition	109
<i>G. Adorni, S. Cagnoni, and M. Mordonini</i>	
Genetic Programming Discovers Efficient Learning Rules for the Hidden and Output Layers of Feedforward Neural Networks	120
<i>A. Radi and R. Poli</i>	
Evolution of Ship Detectors for Satellite SAR Imagery	135
<i>D. Howard, S.C. Roberts, and R. Brankin</i>	
Automatic Generation of Affine IFS and Strongly Typed Genetic Programming	149
<i>A. Sarafopoulos</i>	

Posters

Reactive and Memory-Based Genetic Programming for Robot Control	161
<i>B. Andersson, P. Svensson, P. Nordin, and M. Nordahl</i>	
Distributed and Persistent Evolutionary Algorithms: A Design Pattern	173
<i>A. Bollini and M. Piastra</i>	
Evolving an Environment Model for Robot Localization	184
<i>M. Ebner</i>	
Adapting the Fitness Function in GP for Data Mining	193
<i>J. Eggermont, A.E. Eiben, and J.I. van Hemert</i>	
Evolving Fuzzy Rule Based Classifiers with GA-P: A Grammatical Approach	203
<i>S. García, F. González, and L. Sánchez</i>	
Evolving Neural Network Structures by Means of Genetic Programming .	211
<i>W. Golubski and T. Feuring</i>	
Genetic Reasoning: Evolutionary Induction of Mathematical Proofs	221
<i>P. Nordin, A. Eriksson, and M. Nordahl</i>	
How to Invent Functions	232
<i>J.R. Olsson</i>	
Automatic Parallelization of Arbitrary Programs	244
<i>C. Ryan and L. Ivan</i>	
Evolving Controllers for Autonomous Agents Using Genetically Programmed Networks	255
<i>A. Silva, A. Neves, and E. Costa</i>	
Concurrent Genetic Programming, Tartarus and Dancing Agents	270
<i>A. Trenaman</i>	
Author Index	283



<http://www.springer.com/978-3-540-65899-3>

Genetic Programming
Second European Workshop, EuroGP'99, Göteborg,
Sweden, May 26-27, 1999, Proceedings
Poli, R.; Nordin, P.; Langdon, W.B.; Fogarty, T.C. (Eds.)
1999, X, 290 p., Softcover
ISBN: 978-3-540-65899-3