

Table of Contents

Talks

On the Impact of the Representation on Fitness Landscapes	1
<i>P. Albuquerque, B. Chopard, C. Mazza and M. Tomassini</i>	
The Legion System: A Novel Approach to Evolving Heterogeneity for Collective Problem Solving	16
<i>J. C. Bongard</i>	
Metric Based Evolutionary Algorithms	29
<i>S. Droste and D. Wiesmann</i>	
Register Based Genetic Programming on FPGA Computing Platforms.....	44
<i>M. I. Heywood and A. N. Zincir-Heywood</i>	
An Extrinsic Function-Level Evolvable Hardware Approach	60
<i>T. Kalganova</i>	
Genetic Programming, Ensemble Methods and the Bias/Variance Tradeoff - Introductory Investigations	76
<i>M. Keijzer and V. Babovic</i>	
Evolution of a Controller with a Free Variable Using Genetic Programming	91
<i>J. R. Koza, J. Yu, M. A. Keane and W. Mydlowec</i>	
Genetic Programming for Service Creation in Intelligent Networks	106
<i>P. Martin</i>	
Cartesian Genetic Programming.....	121
<i>J. F. Miller and P. Thomson</i>	
Some Probabilistic Modelling Ideas for Boolean Classification in Genetic Programming	133
<i>J. Muruzábal, C. Cotta-Porras and A. Fernández</i>	
Crossover in Grammatical Evolution: A Smooth Operator?	149
<i>M. O'Neill and C. Ryan</i>	
Hyperschema Theory for GP with One-Point Crossover, Building Blocks, and Some New Results in GA Theory	163
<i>R. Poli</i>	
Use of Genetic Programming in the Identification of Rational Model Structures.....	181
<i>K. Rodríguez-Vázquez and P. J. Fleming</i>	
Grammatical Retina Description with Enhanced Methods	193
<i>R. Ványi, G. Kókai, Z. Tóth and T Petö</i>	

Posters

Intraspecific Evolution of Learning by Genetic Programming	209
<i>Y. Akira</i>	
An Evolutionary Approach to Multiperiod Asset Allocation	225
<i>S. Baglioni, C. da Costa Pereira, D. Sorbello and A. G. B. Tettamanzi</i>	
Acquiring Textual Relations Automatically on the Web Using Genetic Programming	237
<i>A. Bergström, P. Jaksetic and P. Nordin</i>	
Application of Genetic Programming to Induction of Linear Classification Trees.....	247
<i>M. C. J. Bot and W. B. Langdon</i>	
A Metric for Genetic Programs and Fitness Sharing	259
<i>A. Ekárt and S. Z. Németh</i>	
Using Factorial Experiments to Evaluate the Effect of Genetic Programming Parameters	271
<i>R. Feldt and P. Nordin</i>	
Experimental Study of Multipopulation Parallel Genetic Programming ...	283
<i>F. Fernández, M. Tomassini, W. F. Punch III and J. M. Sánchez</i>	
Genetic Programming and Simulated Annealing: A Hybrid Method to Evolve Decision Trees	294
<i>G. Folino, C. Pizzuti and G. Spezzano</i>	
Seeding Genetic Programming Populations	304
<i>W. B. Langdon and J.P. Nordin</i>	
Distributed Java Bytecode Genetic Programming with Telecom Applications	316
<i>E. Lukschndl, H. Borgvall, L. Nohle, M. Nordahl and P. Nordin</i>	
Fighting Program Bloat with the Fractal Complexity Measure	326
<i>V. Podgorelec and P. Kokol</i>	
Paragen - The First Results	338
<i>C. Ryan and L. Ivan</i>	
Multi-robot Cooperation and Competition with Genetic Programming	349
<i>K. Zhao and J. Wang</i>	
Author Index	361