

Table of Contents

Oral Presentations

Higher Order Functions for Kernel Regression	1
<i>Alexandros Agapitos, James McDermott, Michael O'Neill, Ahmed Kattan, and Anthony Brabazon</i>	
Flash: A GP-GPU Ensemble Learning System for Handling Large Datasets	13
<i>Ignacio Arnaldo, Kalyan Veeramachaneni, and Una-May O'Reilly</i>	
Learning Dynamical Systems Using Standard Symbolic Regression	25
<i>Sébastien Gaucel, Maarten Keijzer, Evelyn Lutton, and Alberto Tonda</i>	
Semantic Crossover Based on the Partial Derivative Error	37
<i>Mario Graff, Ariel Graff-Guerrero, and Jaime Cerdá-Jacobo</i>	
A Multi-dimensional Genetic Programming Approach for Multi-class Classification Problems	48
<i>Vijay Ingallali, Sara Silva, Mauro Castelli, and Leonardo Vanneschi</i>	
Generalisation Enhancement via Input Space Transformation: A GP Approach	61
<i>Ahmed Kattan, Michael Kampouridis, and Alexandros Agapitos</i>	
On Diversity, Teaming, and Hierarchical Policies: Observations from the Keepaway Soccer Task	75
<i>Stephen Kelly and Malcolm I. Heywood</i>	
Genetically Improved CUDA C++ Software	87
<i>William B. Langdon and Mark Harman</i>	
Measuring Mutation Operators' Exploration-Exploitation Behaviour and Long-Term Biases	100
<i>James McDermott</i>	
Exploring the Search Space of Hardware / Software Embedded Systems by Means of GP	112
<i>Milos Minarik and Lukáš Sekanina</i>	
Enhancing Branch-and-Bound Algorithms for Order Acceptance and Scheduling with Genetic Programming	124
<i>Su Nguyen, Mengjie Zhang, and Mark Johnston</i>	

Using Genetic Improvement and Code Transplants to Specialise a C++ Program to a Problem Class.....	137
<i>Justyna Petke, Mark Harman, William B. Langdon, and Westley Weimer</i>	
ESAGP – A Semantic GP Framework Based on Alignment in the Error Space.....	150
<i>Stefano Ruberto, Leonardo Vanneschi, Mauro Castelli, and Sara Silva</i>	
Building a Stage 1 Computer Aided Detector for Breast Cancer Using Genetic Programming	162
<i>Conor Ryan, Krzysztof Krawiec, Una-May O'Reilly, Jeannie Fitzgerald, and David Medernach</i>	
NEAT, There's No Bloat.....	174
<i>Leonardo Trujillo, Luis Muñoz, Enrique Naredo, and Yuliana Martínez</i>	
Posters	
The Best Things Don't Always Come in Small Packages: Constant Creation in Grammatical Evolution	186
<i>R. Muhammad Atif Azad and Conor Ryan</i>	
Asynchronous Evolution by Reference-Based Evaluation: Tertiary Parent Selection and Its Archive	198
<i>Tomohiro Harada and Keiki Takadama</i>	
Behavioral Search Drivers for Genetic Programming.....	210
<i>Krzysztof Krawiec and Una-May O'Reilly</i>	
Cartesian Genetic Programming: Why No Bloat?	222
<i>Andrew James Turner and Julian Francis Miller</i>	
On Evolution of Multi-category Pattern Classifiers Suitable for Embedded Systems	234
<i>Zdenek Vasicek and Michal Bidlo</i>	
Author Index.....	247