

EuroGP session 1 : GP for Programming

Wednesday 19 April 1110-1300

Room 1

session chair : Mengjie Zhang

Visualising the Search Landscape of the Triangle Program

William B. Langdon, Nadarajen Veerapen, Gabriela Ochoa

Exploring Fitness and Edit Distance of Mutated Python Programs

Saemundur O. Haraldsson, John R. Woodward, Alexander I.E. Brownlee, David Cairns

Evolutionary Program Sketching

Iwo Błądek, Krzysztof Krawiec

A Grammar Design Pattern for Arbitrary Program Synthesis Problems in Genetic Programming

Stefan Forstenlechner, David Fagan, Miguel Nicolau, Michael O'Neill

A Comparative Analysis of Dynamic Locality and Redundancy in Grammatical Evolution

Eric Medvet

A Comparative Study of Different Grammar-based Genetic Programming Approaches

Nuno Lourenço, Joaquim Ferrer, Francisco B. Pereira, Ernesto Costa

EuroGP session 2 : GP for Regression & Feature Learning

Wednesday 19 April 1415-1605

Room 1

session chair : Krzysztof Krawiec

RANSAC-GP: Dealing with Outliers in Symbolic Regression with Genetic Programming

Uriel López, Leonardo Trujillo, Yuliana Martinez, Pierrick Legrand, Enrique Naredo, Sara Silva

Using Feature Clustering for GP-Based Feature Construction on High-Dimensional Data

Binh Tran, Bing Xue, Mengjie Zhang

Strategies for Improving the Distribution of Random Function Outputs in GSGP

Luiz Otavio V. B. Oliveira, Felipe Casadei, Gisele Pappa

Evolving Game State Features from Raw Pixels

Baozhu Jia, Marc Ebner

Geometric Semantic Crossover with an Angle-aware Mating Scheme in Genetic Programming for Symbolic Regression

Qi Chen, Bing Xue, Yi Mei, Mengjie Zhang

On Evolutionary Approximation of Sigmoid Function for HW/SW Embedded Systems

Milos Minarik, Lukas Sekanina

EuroGP session 3 : GP for Operations Research

Wednesday 19 April 1625-1815

Room 1

session chair : Lukas Sekanina

Grammatical Evolution of Robust Controller Structures using Wilson Scoring and Criticality Ranking

Elias Reichensdörfer, Dirk Odenthal, Dirk Wollherr

Synthesis of Mathematical Programming Constraints with Genetic Programming

Tomasz P. Pawlak, Krzysztof Krawiec

Evolving Time-Invariant Dispatching Rules in Job Shop Scheduling with Genetic Programming

Yi Mei, Su Nguyen, Mengjie Zhang

A New Subgraph Crossover for Cartesian Genetic Programming

Roman Kalkreuth, Günter Rudolph, Andre Droschinsky

Improving the Tartarus Problem as a Benchmark in Genetic Programming

Thomas D. Griffiths, Anikó Ekárt

RECIPE: A Grammar-based Framework for Automatically Evolving Classification Pipelines

Alex G. C. de Sá, Walter José G. S. Pinto, Luiz Otavio V. B. Oliveira, Gisele Pappa

EuroGP session 4 : Best paper candidates

Thursday 20 April 0930 - 1110

Room 1

session chairs : James McDermott & Mauro Castelli

Symbolic Regression on Network Properties

Marcus Mörtens, Fernando Kuipers, Piet Van Mieghem

A General Feature Engineering Wrapper for Machine Learning Using ϵ -Lexicase Survival

William La Cava, Jason Moore

Differentiable Genetic Programming

Dario Izzo, Francesco Biscani, Alessio Mereta

Emergent Tangled Graph Representations for Atari Game Playing Agents

Stephen Kelly, Malcolm I. Heywood