## EuroGP programme (draft at 25 Feb)

## Wednesday 30 March 2016

11:10-13:00 Session 1 (Chair: EuroGP co-chairs)

Full presentations: *Models of Evolution* (format: 18 minutes per paper + 5 min. questions)

Genetic Programming based Hyper-heuristics for Dynamic Job Shop Scheduling: Cooperative Coevolutionary Approaches
John Park, Yi Mei, Su Nguyen, Gang Chen, Mengjie Zhang

A Genetic Programming Approach for the Traffic Signal Control Problem with Epigenetic Modifications

Esteban Ricalde, Wolfgang Banzhaf

Plastic Fitness Predictors Coevolved with Cartesian Programs Michal Wiglasz, Michaela Drahosova

Short presentations: *Applications* (format: 5 minute paper pitch\*)

Search-Based SQL Injection Attacks Testing using Genetic Programming Benjamin Aziz, Mohamed Bader, Cerana Hippolyte

Towards Automated Strategies in Satisfiability Modulo Theory Nicolás Gálvez Ramírez, Youssef Hamadi, Eric Monfroy, Frédéric Saubion

Patterns for Constructing Mutation Operators: Limiting the Search Space in a Software Engineering Application

Thomas Kühne, Heiko Hamann, Svetlana Arifulina, Gregor Engels

Iterative Cartesian Genetic Programming: Creating general algorithms for solving Travelling Salesman Problems
Patricia Ryser-Welch, Julian F. Miller, Jerry Swan, Martin A. Trefzer

## 14:00-15:50 Session 2 (Chair: Jerry Swan)

Full presentations: Classification

(format: 18 minutes per paper + 5 min. questions)

One-class Classification for Anomaly Detection with Kernel Density Estimation and Genetic Programming

Van Loi Cao, Miguel Nicolau, James McDermott

On the Impact of Class Imbalance in GP Streaming Classification with Label Budgets Sara Khanchi, Malcolm I. Heywood, Nur Zincir-Heywood

<sup>\*</sup> Short presentations must have a corresponding poster in the poster session. Full presentations are encouraged to do likewise.

Genetic Programming for Region Detection, Feature Extraction, Feature Construction and Classification in Image Data
Andrew Lensen, Harith Al-Sahaf, Mengjie Zhang, Bing Xue

A Genetic Programming-based Imputation Method for Classification with Missing Data Cao Truong Tran, Mengjie Zhang, Peter Andreae

Short presentations: Foundations (format: 5 minute paper pitch\*)

Modelling Evolvability in Genetic Programming Benjamin Fowler, Wolfgang Banzhaf

Grammar Design for Derivation Tree Based Genetic Programming Systems Stefan Forstenlechner, Miguel Nicolau, David Fagan, Michael O'Neill

Geometric Semantic Genetic Programming is Overkill Tomasz P. Pawlak

Semantic Geometric Initialization Tomasz P. Pawlak, Krzysztof Krawiec

\* Short presentations must have a corresponding poster in the poster session. Full presentations are encouraged to do likewise.

## 17:00-18:50 Session 3: Best Papers (Chair: Mengjie Zhang) (format: 20 minutes per paper + 5 min. questions)

Evolutionary Approximation of Edge Detection Circuits Petr Dvoracek, Lukas Sekanina

Surrogate Fitness via Factorization of Interaction Matrix Paweł Liskowski, Krzysztof Krawiec

Scheduling in Heterogeneous Networks using Grammar-based Genetic Programming David Lynch, Michael Fenton, Stepan Kucera, Holger Claussen, Michael O'Neill

On the Analysis of Simple Genetic Programming for Evolving Boolean Functions Andrea Mambrini, Pietro S. Oliveto