# EuroGP programme (draft at 22 Feb)

## Wednesday 30 March 2016

**11:10-13:00  Session 1  (Chair:     )**

Full presentations: *Models of Evolution*

*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*

*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:     )**

Full presentations: *Classification*

*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 Iain Heywood, Nur Zincir-Heywood

*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*

*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

**17:00-18:50 Session 3 : *Best Papers* (Chair:     )**

*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