

# EUROGP2006 PROGRAMME

9th European Conference on Genetic Programming

**Monday 10 April Maastricht Room**

0930-1100 **Plenary session:** invited speaker Dr Rich Terrile

1100-1120 Coffee break

1120-1250 **Theory 1**

*The Halting Probability in von Neumann Architectures*

W B Langdon, R Poli

*Genetic Programming, Validation Sets, and Parsimony Pressure*

Christian Gagné, Marc Schoenauer, Marco Tomassini, and Marc Parizeau

*Negative Slope Coefficient. A Measure to Characterize Genetic Programming Fitness Landscapes*

Leonardo Vanneschi, Marco Tomassini, Philippe Collard, Sebastien Verel

1250-1415 Lunch

1415-1545 **Applications I**

*Iterative Prototype Optimisation with Evolved Improvement Steps*

Jiri Kubalik, Jan Faigl

*Dynamic Scheduling with Genetic Programming*

Domagoj Jakobovic, Leo Budin

*Iterative Filter Generation using Genetic Programming*

Marc Segond, Denis Robilliard, Cyril Fonlupt

1545-1600 Coffee break

1600-1730 **Theory II**

*A Divide & Conquer strategy for improving efficiency and probability of success in Genetic Programming*

Cyril Fillon, Alberto Bartoli

*Population Clustering for Reducing Fitness Evaluation Cost in Genetic Programming*

Huayang Xie, Mengjie Zhang, Peter Andreae

*Geometric Crossover for Biological Sequences*

Alberto Moraglio, Riccardo Poli, Rolv Seehuus

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1730-1900 **Conference poster session : EuroGP papers**

*Characterizing Diversity in Genetic Programming*

Bart Wyns, Peter De Bruyne, Luc Boullart

*Complexity and Cartesian Genetic Programming*

John Robert Woodward

*Design of Robust Communication Systems Using Genetic Algorithms*

Chien-Min Ou, Wen-Jyi Hwang, Hung-Chuan Yung

*Developmental Evaluation in Genetic Programming: the Preliminary Results*

Robert Ian McKay, Tuan Hao Huang, Daryl Essam, Xuan Hoai Nguyen

*Evolving noisy oscillatory dynamics in genetic regulatory networks*

André Leier, Paul Dwight Kuo, Wolfgang Banzhaf, Kevin Burrage

*Information-Dependent Switching of Identification Criteria in a Genetic Programming System for System Identification*

Thomas Buchsbaum, Siegfried Voessner

*Invariance of Function Complexity under Primitive Recursive Functions*

John Robert Woodward

*On the Locality of Grammatical Evolution*

Franz Rothlauf, Marie Oetzel

*Optimizing the Initialization of Dynamic Decision Heuristics in DPLL SAT Solvers Using Genetic Programming*

Raihan Kibria, You Li

*P-CAGE: An Environment for Evolutionary Computation in Peer-to-Peer Systems*

Giandomenico Spezzano, Gianluigi Folino

*Positional Independence and Recombination in Cartesian Genetic Programming*

Xinye Cai, Stephen L. Smith, Andy M. Tyrrell

1930-2230 **Conference Reception in conjunction with EvoMusArt exhibition at Artpool Art Research Centre (coaches depart at 1930)**

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## Tuesday 11 April Maastricht Room

- 0930-1100 **Non-standard approaches**  
*Blindbuilder : A new encoding to evolve Lego-like structures*  
Alexandre Devert, Nicolas Bredeche, Marc Schoenauer  
*An Incentive Method to handle Constraints in Evolutionary Algorithms with A case study*  
Edward Tsang, Nanlin Jin  
*Learning Recursive Functions with Object Oriented Genetic Programming*  
Alexandros Agapitos, Simon M. Lucas (Nominated for Best Paper Award)
- 1100-1120 **Coffee break**
- 1120-1250 **On Crossover Operators**  
*Evolving crossover operators for function optimization*  
Laura Diosan, Mihai Oltean (Nominated for Best Paper Award)  
*A less destructive, context-aware crossover operator for GP*  
Hammad Majeed, Conor Ryan (Nominated for Best Paper Award)  
*Using Subtree Crossover Distance to Investigate Genetic Programming Dynamics*  
Leonardo Vanneschi, Steven Gustafson, Giancarlo Mauri (Nominated for Best Paper Award)
- 1250-1415 **Lunch**
- 1415-1545 **Applications II**  
*802.11 De-authentication Attack Detection using Genetic Programming*  
Patrick LaRoche, A. Nur Zincir-Heywood  
*AQUAGP: Approximate QUery Answering using GP*  
Jason Peltzer, Ankur M. Teredesai, Garrett L. Reinard  
*A Genetic Programming Approach to Solomonoff's Probabilistic Induction*  
Ivanoe De Falco, Antonio Della Cioppa, Domenico Maisto, Ernesto Tarantino
- 1545-1600 **Coffee break**
- 1600-1730 **EuroGP Debate**
- 1900 - 2230 **Danube River cruise and Conference Dinner (coaches depart at 1900)**

## Wednesday 12 April Maastricht Room

- 0930-1100 **Applications III**  
*Solving Sudoku with the GAUGE System*  
Miguel Nicolau, Conor Ryan  
*Emergent Generality of Adapted Locomotion Gaits of Simulated Snake-like Robot*  
Ivan Tanev  
*Projecting Financial Data using Genetic Programming in Classification and Regression Tasks*  
César Estébanez, José María Valls, Ricardo Aler
- 1100-1115 **Coffee break**
- 1115-1230 **Plenary session: invited speaker Prof Stefan Voss**
- 1230-1245 **Conference closing, presentation of best paper awards**
- 1245-1400 **Lunch**