

## Paper Submission

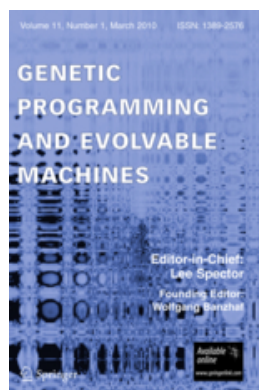
Authors are encouraged to submit high-quality, original work that has neither appeared in, nor is under consideration by, other journals.

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Manuscripts should be submitted to:  
<http://GENP.edmgr.com>.

Choose “ Semantic Methods in GP ” as the article type when submitting.

[www.Springer.com/10710](http://www.Springer.com/10710)



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**Lee Spector**  
Hampshire College

# Genetic Programming and Evolvable Machines

## ~Special Issue Call for Papers~

### Semantic Methods in Genetic Programming Guest Editor: Michael O'Neill, University College, Dublin

Genetic programming (GP) — the application of evolutionary computing techniques to the creation of computer programs — has been a key topic in computational intelligence in the last couple of decades. In recent years an emerging topic in GP has been the use of semantic methods. The aim of this Special Issue is to provide a way of exploring the input-output behaviour of programs, which is ultimately what matters for problem solving. This contrasts with much previous work in GP, which has a syntactical focus, where operators transform the program text and the effect on program behaviour is indirect. The use of semantic methods in GP has substantially improved the performance of GP on a number of problems, including both benchmarks and real-world applications. Semantic methods in GP have also been grounded in a body of theory, which helps to inform algorithm design.

A workshop on Semantic Methods in Genetic Programming will take place at PPSN 2014 in September 2014 (<http://ppsn2014.ijs.si/>), and researchers considering submission to this special issue are strongly encouraged to submit their working papers to the PPSN workshop. This provides potential special issue contributors an opportunity to have an open discussion and receive feedback on the research they are preparing for submission to the Special Issue of Genetic Programming and Evolvable Machines.

**Scope:** All aspects of research related to Semantic Methods in Genetic Programming will be considered including both theoretical and empirical work.

#### Important Dates:

**PPSN Workshop Submission Deadline:** 17 March 2014

PPSN Workshop: 13 September 2014

Workshop Website: <http://www.cs.put.poznan.pl/kkrawiec/smcp2014/>

Workshop Organisers: Colin Johnson, Krzysztof Krawiec, Alberto Moraglio, Michael O'Neill

**GPEM Special Issue Submission Deadline:** 19 December 2014

First Reviews: March 2015

Post Review Submission Deadline: April 2015

Acceptance Notification: June 2015

Camera-ready Paper Deadline: July 2015

**Guest Editor:** Michael O'Neill, [m.oneill@ucd.ie](mailto:m.oneill@ucd.ie)



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