evo* > the main european events on evolutionary computation

eurogp 2012

15th european conference on genetic programming

11-13 april 2012
malaga > spain
www.evostar.org

submission deadline
* 30 november 2011

eurogp is the premier annual conference on Genetic Programming. We invite high quality submissions in all areas of evolution of computer programs describing new original research.

A double-blind review process will be adopted. The conference will feature a mixture of oral presentations and poster sessions.

The **eurogp** conference is always a very enjoyable event offering excellent opportunities for networking, informal contact, exchange of ideas and discussions with fellow researchers in a friendly and relaxed setting.

High quality papers are sought on topics strongly related to the evolution of computer programs, ranging from theoretical work to innovative applications.

areas of interest and contributions
Topics include but are not limited to:
* Theoretical developments;
* Empirical studies of GP performance and behaviour;
* Landscape analysis of GP;
* Algorithms, representations and operators;
* Applications of GP to real-life problems;
* Evolutionary design;
* Evolutionary robotics;
* Tree-based GP;
* Linear GP;
* Graph-based GP;
* Grammar-based GP;
* Evolvable hardware;
* Self-reproducing programs;
* Multi-population GP;
* Multi-objective GP;
* Fast/Parallel GP (e.g., GPU implementation of GP);
* Probabilistic GP (e.g., combining ideas of estimation of distribution algorithms and GP);
* Evolution of various classes of automata or machine (e.g. cellular automata, finite state machines, pushdown automata, Turing machines);

* Software Engineering and GP: using GP to evolve complete programs (e.g., including variables, loops, recursion) and using SE methods (e.g., software design) to improve GP;
* Object-oriented GP;
* Hybrid architectures including GP components;
* Unconventional evolvable computation;

publication details
Accepted papers will be presented orally or as posters at the Conference and will be printed in the proceedings published by Springer Verlag in the Lecture Notes in Computer Science (LNCS) series. Previous editions of eurogp were published in the Springer Verlag LNCS volumes 1598, 1802, 2038, 2278, 2610, 3003, 3447, 3905, 4445, 4971, 5481, 6021, 6621.

The papers which receive the best reviews will be nominated for the Best Paper Award.

post-conference journal publication
Authors of selected papers may be invited to submit extended versions of their work to the Springer journal *Genetic Programming and Evolvable Machines* (GPEM). Last year, four best papers were selected for a special issue of GPEM to be published in early 2012.

special joint session
To celebrate the 10th anniversary of **evobio**, **eurogp** encourages submissions applying genetic programming to problems in computational biology and new biologically inspired extensions of the genetic programming framework for a *special joint session* of **eurogp** with **evobio**. These papers can be submitted either to **eurogp** or **evobio**, and the authors of the best ones will be invited to submit expanded presentations of their work to a special issue of the Springer journal *Genetic Programming and Evolvable Machines*.

submission details
Submissions must be original and not published elsewhere. The submissions will be peer reviewed by at least three members of the program committee. The authors of accepted papers will have to improve their paper on the basis of the reviewers' comments and will be asked to send a camera ready version of their manuscripts. At least one author of each accepted work has to register for the conference and attend the conference and present the work.

The reviewing process will be double-blind, so please omit information about the authors in the submitted paper. Submit your manuscript in Springer LNCS format. Page limit: 12 pages.

Submission link:
http://myreview.csregistry.org/eurogp12/

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