

evo\* > the main european events on evolutionary computation

# evobio 2012

10th european conference  
on evolutionary computa-  
tion, machine learning and  
data mining  
in computational biology

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

submission deadline  
\* 30 november 2011

The European Conference on Evolutionary Computation, Machine Learning and Data Mining in Computational Biology is a multidisciplinary conference that brings together researchers working in Bioinformatics that apply advanced techniques coming from Evolutionary Computation, Machine Learning, and Data Mining to address important problems in molecular biology, proteomics, genomics and genetics. The primary focus of the conference is to present the latest advances of these approaches for Bioinformatics and to provide a forum for the discussion of new research directions. In 2012 **evobio** will celebrate its 10th anniversary in the wonderful location of Málaga, Spain. The conference will be held in conjunction with the **eurogp**, **evocop**, **evomusart**, and **evoapplications**.

Follow us on Twitter @EVOBio2012, join our *evobio2012* group on LinkedIn and our *EvoBIO* group on Facebook. For any information, please email to [evobio.conference@gmail.com](mailto:evobio.conference@gmail.com).

## areas of interest and contributions

Topics of interest include but are not limited to:

- \* biomarker discovery;
- \* cell simulation and modelling;
- \* ecological modelling;
- \* fluxomics;
- \* gene networks;
- \* high-throughput biotechnology;
- \* metabolomics;
- \* microarray analysis;
- \* phylogeny;
- \* protein interaction;
- \* proteomics;
- \* sequence analysis and alignment;
- \* biological networks analysis;
- \* systems biology.

## publication details

Each accepted paper will be presented orally or as a poster at the conference and will be printed in the proceedings published by Springer Verlag in the LNCS series. The accepted papers of the previ-

ous editions of **evobio** were published in the Springer Verlag LNCS. The first 4 editions (2003–2006) were published in the LNCS 2611, 3005, 3449, 3907, together with the remaining *evoworkshops*. Since 2007 **evobio** became a **evo\*** conference and its proceedings were published in Springer Verlag LNCS 4447, 4973, 5483, 6023, and 6622 respectively.

## post-conference journal publication

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

The authors of papers which receive the best reviews will be nominated for the Best paper Award. Papers nominated for the best paper award will also be invited to expand their publication for post-conference publication on the BioMed Central journal *BioData Mining*.

## 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, please omit information about the authors in the submitted paper. Submit your manuscript in Springer LNCS format.

**evobio** is interested in papers in three major areas:

- \* Full research articles (maximum 12 pages) describing new methodologies, approaches, and/or applications (oral or poster presentation).
- \* System Demonstrations (maximum 8 pages) outlining the nature of the system and describe why the demonstration is likely to be of interest for the conference. Demonstrations of interest include systems under development or in active use in research or practice domains. Selected demo submissions may be asked to give an oral presentation in the conference sessions.
- \* Short reports (maximum 8 pages) describing new methodologies, approaches, and/or applications (poster presentation).
- \* Abstracts (maximum 4 pages) discussing work previously published in a journal: it is therefore essential that a reference to the previous article was clearly cited in the abstract (oral or poster presentation).

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