Call for Papers

2010 Genetic and Evolutionary Computation Conference
Wednesday – Sunday July 7 – 11, 2010 Portland, Oregon, USA
Largest Conference in the Field of Genetic and Evolutionary Computation
A recombination of the
19th International Conference on Genetic Algorithms (ICGA) and the
15th Annual Genetic Programming Conference (GP)
www.sigevo.org/gecco-2010

One Conference – Many Mini-Conferences

Program Tracks
Three days of presentations of the latest high-quality results in at least 14 separate and independent program tracks specializing in various aspects of genetic and evolutionary computation.

Free Tutorials & Workshops!
Two days of free tutorials and workshops (included with conference registration) presented by some of the world’s foremost experts in topics of interest to genetic and evolutionary computation researchers and practitioners.

Important Dates
* Submission deadline: January 13, 2010
* Notification of paper acceptance: March 10, 2010
* Camera-ready submission: April 5, 2010
* GECCO-2010 Conference: July 7-11, 2010

Review Process
Each paper submitted to GECCO will be rigorously reviewed, in a double-blind review process, meaning that reviewers should not be able to infer the identities of the authors of the papers under review, and, of course, that authors will not know the identities of their reviewers.

One of at least 14 separate and independent program committees specializing in various aspects of genetic and evolutionary computation review submitted papers. These committees make their own final decisions on submitted papers for their areas, subject only to conference-wide space limitations and procedures.

Review criteria include significance of the work, technical soundness, novelty, clarity, writing quality, and sufficiency of information to permit replication, if applicable.

About the Conference Venue
The Portland Marriott Downtown Waterfront Hotel, located in downtown Portland, is near the Portland Riverplace Marina, restaurants, shopping & performing arts venues. Hotel room conference rate $179 includes complimentary in-room high-speed Internet access.

How to Submit a Paper

Submit substantially new work
The material in a paper must represent substantially new work that has not been previously published by conferences, journals, or edited books in the genetic and evolutionary computation field.

GECCO allows submissions of material that is substantially similar to a paper being submitted contemporaneously for review in another conference. However, if the submitted paper is accepted by GECCO, the authors agree that substantially the same material will not be published by another conference in the evolutionary computation field. Material may be later revised and submitted to a journal, if permitted by the journal.

Visit www.sigevo.org/gecco-2010
For detailed instructions, including categories, keywords, and formatting requirements visit www.sigevo.org/gecco-2010.

Be sure to check the web page for changes that may appear as the paper submission deadline approaches.

Accept author agreement
By submitting a paper, the author(s) agree that, if their paper is accepted, they will:
* Submit a final, revised, camera-ready version to the publisher by Monday, April 5, 2010
* Register at least one author to attend the conference by Monday, April 19, 2010
* Attend the conference (at least one author)
* Present the accepted paper at the conference

More Information
Visit www.sigevo.org/gecco-2010 for information about deadlines, student travel grants, hotel reservations, student housing, student workshop, the latest list of topics, late-breaking papers, and more.

For matters of science and program content, contact Conference Chair Martin Pelikan at pelikan@cs.umsl.edu.

For general help and administrative matters contact GECCO Support at gecco-admin@tigerscience.com
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The Genetic and Evolutionary Computation Conference (GECCO-2010) will present the latest high-quality results in the growing field of genetic and evolutionary computation. Topics include: genetic algorithms, genetic programming, evolution strategies, evolutionary programming, real-world applications, learning classifier systems and other genetics-based machine learning, evolvable hardware, artificial life, adaptive behavior, ant colony optimization, swarm intelligence, biological applications, evolutionary robotics, coevolution, artificial immune systems, and more.

GECCO Organizers
Conference Chair: Martin Pelikan
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Workshops Chair: Jaume Bacardit
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Late Breaking Papers Chair: Daniel Tauritz
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Artificial Life/Robotics/Evolvable Hardware: Josh Bongart
Bioinformatics and Computational Biology: Natalio Krasnagor
Combinatorial Optimization and Metaheuristics: Jano van Hemert
Estimation of Distribution Algorithms: Kumara Sastry
Evolutionary Multiobjective Optimization: Kalyanmoy Deb
Evolution Strategies and Evolutionary Programming: Dirk Arnold
Genetic Algorithms: Dirk Thierens
Genetics Based Machine Learning: Martin V. Butz
Genetic Programming: Leonardo Vanneschi & Michael O’Neill
Generative and Developmental Systems: Julian Miller & Jeff Clune
Parallel Systems: Enrique Alba
Real world applications: Anthony Brabazon
Search-Based Software Engineering: Myra Cohen
Theory: Carsten Witt

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  * Wolfgang Banzhaf, Treasurer

Planned Free Tutorials
Introductory Tutorials
* Genetic algorithms
* Genetic programming
* Evolution strategies: Basic introduction
* Evolutionary computation: A unified view
* Probabilistic model-building genetic algorithms
* Learning Classifier Systems
* Ant colony optimization
* Grammatical evolution
* Statistical analysis for evolutionary computation: Introduction
* Evolutionary neural networks

Advanced Tutorials
* Genetic Programming Theory
* Bioinformatics
* Representations for evolutionary algorithms
* Evolutionary Multiobjective Optimization
* Constraint handling techniques using EAs
* Experimental Research in EC

* Genetic Algorithms Theory
* Statistical analysis for evolutionary computation: Advanced Techniques
* Computational Complexity and EC

To Propose a Tutorial or Workshop
To propose a tutorial, contact Una-May O’Reilly at unamay@csl.isi.edu
To propose a workshop, contact Jaume Bacardit at jqb@cs.nott.ac.uk
Please include “GECCO” in your subject line.
For general help and administrative matters contact GECCO Support at gecco-admin@tigerscience.com.

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GECCO is sponsored by the Association for Computing Machinery Special Interest Group on Genetic and Evolutionary Computation (SIGEVO). SIG Services: 2 Penn Plaza, Suite 701, New York, NY, 10121, USA, 1-800-342-6626 (USA and Canada) or +1-212-626-0500