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

Meet the Submission Deadline: Wednesday, January 13, 2010.

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
Editor-in-Chief: Jürgen Branke
Local Chair: Kumara Sastry
Publicity Chair: Pier Luca Lanzi
Tutorials Chair: Una-May O'Reilly
Workshops Chair: Jaume Bacardit
Competitions Chairs: Christian Gagné
Late Breaking Papers Chair: Daniel Tauritz
Graduate Student Workshop Chair: Riccardo Poli
Business Committee: Erik Goodman & Una-May O'Reilly
Evolutionary Computation in Practice: Joern Mehnen, Thomas Bartz-Beielstein, David Davis

Program Tracks and Chairs
ACO/Swarm Intelligence: Andries Engelbrecht
Artificial Life/Robotics/Evolvable Hardware: Josh Bongart
Bioinformatics and Computational Biology: Natalio Krasnagor
Combinatorial Optimization and Metaheurisics: 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

SIGEVO Officers
* Darrell Whitley, Chair
* John R. Koza, Vice Chair
* Una-May O'Reilly, Secretary
* Wolfgang Banzhaf, Treasurer

Planned Free Tutorials
Introductory Tutorials
* Genetic algorithms	Erik Goodman
* Genetic programming	John R. Koza
* Evolution strategies: Basic introduction	Thomas Bäck
* Evolutionary computation: A unified view	Kenneth De Jong
* Probabilistic model-building genetic algorithms	Martin Pelikan
* Learning Classifier Systems	Martin V. Butz
* Ant colony optimization	Christian Blum
* Grammatical evolution	Conor Ryan
* Statistical analysis for evolutionary computation: Introduction	Mark Wineberg
* Evolutionary neural networks	Risto Mikkulainen

Advanced Tutorials
* Genetic Programming Theory	Riccardo Poli
* Bioinformatics	Jason Moore
* Representations for evolutionary algorithms	Franz Rothlauf
* Evolutionary Multiobjective Optimization	Eckart Zitzler
* Constraint handling techniques using EAs	Carlos Coello Coello
* Experimental Research in EC	Mike Preuss
	T. Bartz-Beielstein
* Genetic Algorithms Theory	TBA
* Statistical analysis for evolutionary computation: Advanced Techniques	TBA
* Computational Complexity and EC	Franz Neumann
	Thomas Jansen

To Propose a Tutorial or Workshop
To propose a tutorial, contact Una-May O'Reilly at **unamay@csail.mit.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.

SIGEVO Executive Committee
Darrell Whitley (chair)	John H. Holland
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