Call for Papers
2008 Genetic and Evolutionary Computation Conference
Saturday – Wednesday July 12 –16, 2008 Atlanta, Georgia, USA
Largest Conference in the Field of Genetic and Evolutionary Computation
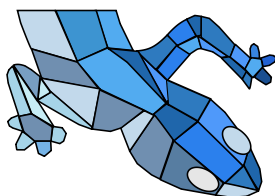**A recombination of the**
17th International Conference on Genetic Algorithms (ICGA)
and the 13th Annual Genetic Programming Conference (GP)
www.sigevo.org/gecco-2008

One Conference – Many Mini-Conferences

Program Tracks: Three days of presentations of the latest high-quality results in 16 separate and independent program tracks specializing in various aspects of genetic and evolutionary computation.

Free Tutorials and 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.

Proceedings will be published and distributed to all registered attendees.

Review Process

Each paper submitted to GECCO will be rigorously reviewed, in a 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 16 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 includes significance of the work, novelty, clarity, writing quality, and sufficiency of information to permit replication, if applicable.

GECCO notifies the first-named author (or other corresponding author designated by the authors at submission) of acceptance or rejection by March 12, 2008.

About the Conference Venue
The Renaissance Atlanta is conveniently located on the edge of Midtown near Atlanta's top attractions. Direct train service from Hartsfield-Jackson Atlanta International Airport to MARTA Subway North Avenue Station. Hotel room conference rate: $159 with free in-room high-speed Internet access.

How to Submit a Paper

Meet the Submission Deadline: Wednesday, January 30, 2008.

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-2008** for detailed instructions, including categories, keywords, and formatting requirements. 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 Wednesday April 16 2008
★ Register at least one author to attend the conference by Friday, April 18, 2008
★ Attend the conference (at least one author)
★ Present the accepted paper at the conference

More Information

Visit **www.sigevo.org/gecco-2008** 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 Conor Ryan at **Conor.Ryan@ul.ie**.

For general help and administrative matters contact Support at **gecco-admin@tigerscience.com**.

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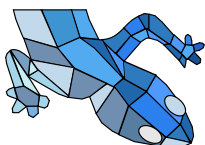**A recombination of**
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The Genetic and Evolutionary Computation Conference (GECCO-2008) will present the latest high-quality results in the growing field of genetic and evolutionary computation. Topics include: genetic algorithms, genetic programming, 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: Conor Ryan
Editor-in-Chief: Maarten Keijzer
Business Committee: Wolfgang Banzhaf
Erik Goodman
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Tutorials Chair: Jano Van Hemert
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Publicity Chair: Annie S. Wu
Evolutionary Computation in Practice Chairs: Dave Davis
Jorn Mehnen

Program Tracks and Chairs:
Genetic Algorithms: Martin Pelikan
Genetic Programming: Julian Miller
Evolution Strategies, Evolutionary Programming: Nikolaus Hansen
Evolutionary Combinatorial Optimization: Frank Neumann
Real-World Applications: Daniel Howard, Adrian Stoica
Genetics-Based Machine Learning and Learning Classifier Systems: John Holmes
Bioinformatics and Computational Biology: Jason H. Moore, Clare Bates Congdon
Artificial Life, Evolutionary Robotics, Adaptive Behavior, Evolvable Hardware: Gregory S. Hornby
Ant Colony Optimization, Swarm Intelligence, and Artificial Immune Systems: James Kennedy
Evolutionary Multiobjective Optimization: Kalyanmoy Deb, El Ghazli Talbi
Coevolution: Jordan Pollack
Estimation of Distribution Algorithms: Kumara Sastray
Search-Based Software Engineering: Giulio Antoniol
Formal Theory: Ingo Wegener, Benjamin Doerr
Generative and Developmental Systems: Sanjeev Kumar and Ken Stanley

SIGEVO Executive Committee

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More Information

Visit **www.sigevo.org/gecco-2008** for updates on tutorials and workshops, as well as information about electronic submission procedures, formatting details, student travel grants, hotel reservations, travel discounts, student housing, graduate student workshop, the latest list of topics, late-breaking papers, and more.

Planned Free Tutorials

Introductory

Genetic Algorithms,	Erik Goodman
Genetic Programming,	John Koza
Evolution Strategies,	Thomas Bäck
A Unified Approach to EC,	Kenneth De Jong
Particle Swarm Optimization,	James Kennedy
Probabilistic Model-Building Gas,	Martin Pelikan
Grammatical Evolution,	Conor Ryan
Learning Classifier Systems,	Martin V. Butz

Advanced

GP Theory,	Riccardo Poli
No Free Lunch,	Darrell Whitley
Bioinformatics,	Jason Moore
Evolutionary Multiobjective Optimization,	Eckart Zitzler,
	Kalyanmoy Deb
Representations,	Franz Rothlauf
Evolutionary Practical Optimization,	Kalyanmoy Deb
Computational Complexity and EC,	Frank Neumann
GA Theory,	Jonathan Rowe
Experimental Research in EC,	Thomas Bartz-Beielstein

Specialised

Symbolic Regression,	Maarten Keijzer
Quantum Computing,	Lee Spector
Evolutionary Multiobjective Combinatorial Optimization (EMCO),	Rajeev Kumar
Theory of Randomized Search Heuristics in Combinatorial Optimization,	Carsten Witt
Evolutionary Design,	Ian Parmee
Evolutionary Computation and Games,	Moshe Sipper
An Information Perspective on Evolutionary Computation,	Yossi Borenstein
Evolution Strategies and related Estimation of Distribution Algorithms,	Nikolaus Hansen
Cartesian Genetic Programming,	Julian F Miller
EA-based Test and Verification of Microprocessors,	Giovanni Squillero

To Propose a Tutorial or Workshop

To propose a tutorial, contact Jano Van Hemert
jano@vanhemert.co.uk
To propose a workshop, contact Marc Ebner
ebner@informatik.uni-wuerzburg.de
Please include "GECCO" in your subject line.

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For general help and administrative matters contact GECCO Support at **gecco-admin@tigerscience.com**.