

Call for Papers

2007 Genetic and Evolutionary Computation Conference

July 7-11, 2007 (Saturday-Wednesday), University College London, London UK (pending ACM approval)
Largest Conference in the Field of Genetic and Evolutionary Computation

A recombination of
the 16th International Conference on Genetic Algorithms (ICGA)
and the 12th Annual Genetic Programming Conference (GP)

www.sigevo.org/gecco-2007

One Conference – Many Mini-Conferences



The Genetic and Evolutionary Computation Conference (GECCO-2007) 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.

Program Tracks: Three days of presentations in 14 separate and independent program tracks specializing in various aspects of genetic and evolutionary computation. Proceedings will be published and distributed to all registered attendees.

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.

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 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 on March 14, 2007.

How to Submit a Paper

Meet the Submission Deadline: The deadline for **ARRIVAL** of submissions is Wednesday, January 17, 2007.

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-2007 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 by the deadline for camera-ready papers: Wednesday, April 11, 2007
- Register at least one author to attend the conference By the deadline for camera-ready papers,
- Attend the conference (at least one author)
- Present the accepted paper at the conference



About University College London: UCL was the first university to be established in England after Oxford and Cambridge, providing a progressive alternative to those institutions' social exclusivity, religious restrictions and academic constraints. Today UCL is one of the intellectual powerhouses of British higher education. Located at Gower Street, London WC1E 6BT, UK. Website: www.ucl.ac.uk



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Keynote 9 July: Professors Richard Dawkins, Lewis Wolpert, and Steve Jones

Richard Dawkins, Lewis Wolpert and Steve Jones will take part in a public debate on the evening of 9 July, discussing the emergence of complexity in evolution. This will be a once-in-a-lifetime opportunity to hear and interact with some of the most famous names in evolutionary biology.



GECCO Organizers

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Evolutionary Computation in Practice Chairs:

Local Arrangements and Publicity Chair:

Program Tracks and Chairs:

Genetic Algorithms: Jürgen Branke, Kumara Sastry

Genetic Programming: Riccardo Poli

Evolution Strategies, Evolutionary Programming: Hans-Georg Beyer

Real-World Applications: Dave Cliff

Genetics-Based Machine Learning and

Learning Classifier Systems: Tim Kovacs

Biological Applications: Jason H. Moore, Clare Congdon

Artificial Life, Evolutionary Robotics, Adaptive Behavior, Evolvable

Hardware: Josh Bongard

Ant Colony Optimization, Swarm Intelligence, and Artificial Immune

Systems: Thomas Stützle, Mauro Birattari

Evolutionary Multiobjective Optimization: Kalyanmoy Deb

Coevolution: Richard Watson

Estimation of Distribution Algorithms: Martin Pelikan

Search-Based Software Engineering: John Clark

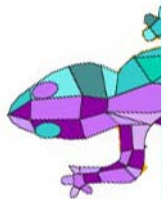
Formal Theory: Frank Neumann, Ingo Wegener, Benjamin Doerr

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Planned Free Tutorials

Introductory

Genetic Algorithms
Genetic Programming
Evolution Strategies
A Unified Approach to EC
Ant Colony Optimization
Learning Classifier Systems
Probabilistic Model-Building GAs
Grammatical Evolution
Coevolution

Erik Goodman
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Christian Blum
Tim Kovacs
Martin Pelikan
Conor Ryan
Edwin de Jong,
Kenneth Stanley,
Paul Wiegand

Advanced

GA Theory
GP Theory

Representations
No Free Lunch
Bioinformatics
Human Competitive Results
Evolutionary Multiobjective Optimization
Deb
Industrial Evolutionary Computing

Jonathan Rowe
Riccardo Poli,
Bill Langdon
Franz Rothlauf
Darrell Whitley
Jason Moore
John Koza
Eckart Zitzler, Kalyanmoy

Arthur Kordon,
Guido Smits,
Mark Kotanchek Constraint

Handling Techniques

Used with EAs
Statistics for EC
Coevolution

Carlos Coello Coello
Mark Wineberg
Sevan Ficici,
Anthony Bucci
Kalyanmoy Deb

Evolutionary Practical Optimization

Specialized Techniques and Applications

Experimental Research in EC

Mike Preuss,
Thomas Bartz-Beielstein
Maarten Keijzer
Risto Miikulinainen
Lee Spector

Symbolic Regression in GP

Evolving Neural Networks
Quantum Computing

To Propose a Tutorial or Workshop

To propose a tutorial, contact Anikó Ekárt at ekarta@aston.ac.uk. To propose a workshop, contact Tina Yu at tinayu@cs.mun.ca. Please include "GECCO" in your subject line.

More Information

Visit www.sigevo.org/gecco-2007 for about electronic submission procedures, formatting details, student travel grants, the latest list of tutorials and workshop, late-breaking papers, and more.

For technical matters contact Conference Chair Hod Lipson at Hod.Lipson@cornell.edu. For conference administration matters contact Primary Support Staff at gecco-admin@tigerscience.com.

