



Genetic and Evolutionary Computation Conference



Vancouver, BC, Canada
July 12-16, 2014

A recombination of the
23rd International Conference on
Genetic Algorithms (ICGA) and the
19th Annual Genetic Programming Conference (GP)
www.sigevo.org/gecco-2014

One Conference – Many Mini-Conferences

GECCO = ACO-SI + ALIFE + BIO + DETA + ECOM + EDA + EML + EMO + ESEP + GA + GDS + GP + HOP + IGEC + PES + RWA + SBSE + SS + THEORY



The Genetic and Evolutionary Computation Conference (GECCO 2014) will present the latest high-quality results in genetic and evolutionary computation. Topics include: genetic algorithms, genetic programming, evolution strategies, evolutionary programming, memetic algorithms, hyper heuristics, real-world

applications, evolutionary machine learning, evolvable hardware, artificial life, adaptive behaviour, ant colony optimization, swarm intelligence, biological applications, evolutionary robotics, coevolution, artificial immune systems, and more.

Call for Papers

The GECCO 2014 Program Committee invites the submission of technical papers describing your best work in genetic and evolutionary computation. Abstracts need to be submitted by January 15, 2014. Full papers are due by the non-extensible deadline of January 29, 2014. Detailed submission instructions can be found at www.sigevo.org/gecco-2014.

Each paper submitted to GECCO will be rigorously evaluated in a double-blind review process. The evaluation is on a per-track basis, ensuring high interest and expertise of the reviewers. Review criteria include significance of the work, technical soundness, novelty, clarity, writing quality, and sufficiency of information to permit replication, if applicable. All accepted papers will be published in the ACM Digital Library.

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 However, if the submitted paper is accepted by GECCO, the authors agree that substantially the same material will not be published by another conference.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

Researchers are invited to submit abstracts of their work recently published in top-tier conferences and journals to the new Hot Off the Press track. Contributions will be selected based on quality and interest to the GECCO community.

Important Dates

- Workshop and tutorial proposals: November 6, 2013
- Notification of workshop and tutorial acceptance: November 29, 2013
- Abstract submission: January 15, 2014
- Submission of full papers: January 29, 2014
- Notification of paper acceptance: March 12, 2014
- Camera ready submission: April 14, 2014
- Advance registration: May 2, 2014
- Conference: July 12-16, 2014

Call for Tutorials

The GECCO 2014 Organizing Committee invites proposals for tutorials. Proposals are due by November 6, 2013 and will be reviewed by the GECCO 2014 Organizing Committee based on their significance to the conference, the breadth and depth of the topics, and the expertise and credentials of the presenters. Tutorials will be free to all attendees of the conference. Slide sets of accepted tutorials will be published in the ACM Digital Library as part of a companion volume to the conference proceedings. For detailed instructions, see www.sigevo.org/gecco-2014.

Call for Workshops

The GECCO 2014 Organizing Committee invites proposals for workshops. Proposals are due by November 6, 2013. GECCO workshops provide the possibility to jointly develop visions and exchange ideas in an informal setting, especially if focused on an emerging research field or interdisciplinary research area. Attendance at the workshops will be free for all GECCO attendees.

Workshop organizers are responsible for coordination, publicity, and the reviewing of submitted papers. Accepted workshop papers will be published in the ACM Digital Library in a companion volume to the conference proceedings. For detailed instructions, see www.sigevo.org/gecco-2014.



Images courtesy of Tourism Vancouver



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 +212-626-0500



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Program Tracks

Three days of presentations of the latest high-quality results in more than 15 separate and independent program tracks specializing in various aspects of genetic and evolutionary computation.

Free Tutorials and Workshops!

Two days of 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.



GECCO Organizers

General Chair: Dirk Arnold
Editor-in-Chief: Christian Igel
Local Chair: Elena Popovici
Publicity Chair: Christian Gagné
Tutorials Chair: Mengjie Zhang
Students Chair: Petr Pošík
Workshops Chair: Per Kristian Lehre
Competitions Chair: Amy K. Hoover
Evolutionary Computation in Practice: Thomas Bartz-Beielstein and Jörn Mehnen
Business Committee: Darrell Whitley and Jürgen Branke

About the Conference Venue

Vancouver is a large and multicultural Canadian city with a distinctive West Coast twist. Nestled between the sea and the mountains, it is a vibrant city close to nature. The remarkable Stanley Park as well as the 22 km seawall, which offers unparalleled opportunities for walking, cycling, and rollerblading, are in walking distance from downtown. The diversity of the city's restaurant scene is second to none. Vancouver has regularly been ranked as one of the most livable cities worldwide and is a beautiful destination to visit.

Travelling to Vancouver is easy and convenient, with direct flights from many cities in North America, Europe, Asia, and Oceania, and a rail connection between the airport and downtown (Canada Line). For more information, visit www.tourismvancouver.com.

The conference will be held at the Sheraton Wall Centre Vancouver (www.sheratonvancouver.com). Located in Downtown Vancouver's shopping and entertainment districts, it is within walking distance of the city's best restaurants and most attractions.



Planned Program Tracks

- Ant Colony Optimization and Swarm Intelligence
- Artificial Life / Robotics / Evolvable Hardware
- Biological and Biomedical Applications
- Digital Entertainment Technologies and Arts
- Estimation of Distribution Algorithms
- Evolution Strategies and Evolutionary Programming
- Evolutionary Combinatorial Optimization and Metaheuristics
- Evolutionary Machine Learning
- Evolutionary Multiobjective Optimization
- Generative and Developmental Systems
- Genetic Algorithms
- Genetic Programming
- Hot Off the Press
- Integrative Genetic and Evolutionary Computation
- Parallel Evolutionary Systems
- Real World Applications
- Search-Based Software Engineering
- Self-* Search
- Theory

Contacts

- www.sigevo.org/gecco-2014
- gecco2014@sigevo.org
- [www.twitter.com/GECCO2014](https://twitter.com/GECCO2014)
- <http://on.fb.me/19IQqqd>
- <http://goo.gl/sbJBv>



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