



Genetic and Evolutionary Computation Conference

gecco-2024.sigevo.org



Melbourne, Australia
July 14 - 18, 2024

Premier conference in the field of Genetic and Evolutionary Computation



The Genetic and Evolutionary Computation Conference (GECCO) presents the latest high-quality results in genetic and evolutionary computation since 1999. Topics include: genetic algorithms, genetic programming, swarm intelligence, complex systems, evolutionary combinatorial optimization and metaheuristics, evolutionary machine learning, evolutionary multiobjective optimization, evolutionary numerical optimization, neuroevolution, real world applications, search-based software engineering, theory, hybrids and more.

Call for Papers

Each paper submitted to GECCO 2024 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.

By submitting a paper, the authors agree that, if their paper is accepted, they will:

- Submit a final, revised, camera-ready version to the publisher on or before the camera ready deadline.
- Register at least one author to attend the conference on or before the advance registration deadline.
- Participate in the conference (at least one author).
- Present the accepted paper at the conference.

Researchers who have recently published their work in top-tier conferences and journals are invited to submit abstracts to the Hot Off the Press track. Consider submitting your work also to the Humies Awards. In addition, the Late Breaking Abstracts welcomes submissions of abstracts describing late-breaking developments. In both cases, contributions will be selected based on quality and interest to the GECCO community.

Call for Workshops and Tutorials

The GECCO 2024 Organizing Committee invites proposals for tutorials. They will be reviewed by the GECCO 2024 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 open 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. Please visit the GECCO 2024 website to check for deadlines.



The GECCO 2024 Organizing Committee invites proposals for workshops. 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. Please visit the GECCO 2024 website for deadlines. 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.



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 13 separate and independent program tracks specializing in various aspects of genetic and evolutionary computation.

- 👉 BBSR - Benchmarking, Benchmarks, Software, and Reproducibility
- 👉 CS - Complex Systems
- 👉 ECOM - Evolutionary Combinatorial Optimization and Metaheuristics
- 👉 EML - Evolutionary Machine Learning
- 👉 EMO - Evolutionary Multiobjective Optimization
- 👉 ENUM - Evolutionary Numerical Optimization
- 👉 GA - Genetic Algorithms
- 👉 GECH - General Evolutionary Computation and Hybrids
- 👉 GP - Genetic Programming
- 👉 L4 EC - Learning for Evolutionary Computation
- 👉 NE - Neuroevolution
- 👉 RWA - Real World Applications
- 👉 SBSE - Search-Based Software Engineering
- 👉 SI - Swarm Intelligence
- 👉 THEORY - Theory



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.

SIGEVO Summer School

The SIGEVO Summer School starts before the conference and welcomes students willing to participate in lectures, discussions, presentations, joint works, and interact with world-class researchers.

Online Presence

The conference will be hybrid. Details will be provided in time on the Conference website and via Twitter.

Contact

🏠 [GECCO site](https://gecco-2024.sigevo.org) ✉ gecco2024@sigevo.org

🌐 [Gecco2024](https://www.linkedin.com/company/gecco2024) 🗨 [GeccoConf](https://www.meetup.com/geccoconf/)

GECCO Organizers

- 👉 General Chair: Xiaodong Li
- 👉 Editor-in-Chief: Julia Handl
- 👉 Local Chair: Markus Wagner
- 👉 Business Committee: Manuel López-Ibáñez, Anne Auger

About the Conference Venue

Melbourne is a stable, prosperous city and a gateway to the Asia-Pacific region. With its ease of navigation and temperate climate, visitors are drawn to Melbourne to explore its labyrinth of laneways and experience its innovative food and wine scene, thriving culture and year-round calendar of major events. Melbourne's comprehensive transport network and touring companies will enable delegates to travel to other parts of Victoria and Australia for pre and post conference touring.

Find more about Melbourne at <https://gecco-2024.sigevo.org/Venue>.

The Melbourne Convention Exhibition Centre (MCEC) will provide a safe and inclusive environment. We will do our best to provide discount codes for nearby hotels.

Important Dates

- 👉 Tutorial/Workshop/Competition proposals: 2 November 2023
- 👉 Tutorial/Workshop/Competition notification: 7 December 2023
- 👉 Abstract submission: 25 January 2024
- 👉 Paper submission: 1 February 2024
- 👉 Notification of paper acceptance: 21 March 2024
- 👉 GECCO 2024 Conference: July 14-18, 2024

SIGEVO Executive Board

Hernán Aguirre	Manuel López-Ibáñez
Anne Auger	Una-May O'Reilly
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As a published ACM author, you and your co-authors are subject to all ACM Publications Policies (<https://www.acm.org/publications/policies/toc>), including ACM's new Publications Policy on Research Involving Human Participants and Subjects (<https://www.acm.org/publications/policies/research-involving-human-participants-and-subjects>).