GECCO

Genetic and Evolutionary Computation Conference
gecco-2023.sigevo.org

2023

Lisbon, Portugal
July 15-19, 2023

Premier conference in the field of Genetic and Evolutionary Computation

The Genetic and Evolutionary Computation Conference 2023 will present the latest high-quality results in genetic and evolutionary computation. Topics include: genetic algorithms, genetic programming, ant colony optimization and 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 2023 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 2023 Organizing Committee invites proposals for tutorials. They will be reviewed by the GECCO 2023 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 2023 website to check for deadlines.

The GECCO 2023 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 2023 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.

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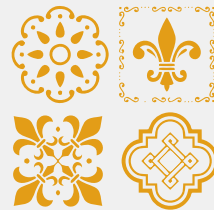gecco-2023.sigevo.org

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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.

- ⚙ ACO-SI - Ant Colony Optimization and Swarm Intelligence
- ⚙ 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
- ⚙ NE - Neuroevolution
- ⚙ RWA - Real World Applications
- ⚙ SBSE - Search-Based Software Engineering
- ⚙ 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   ✉ gecco2023@sigevo.org

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GECCO Organizers

- ⚙ General Chair: Sara Silva
- ⚙ Editor-in-Chief: Luís Paquete
- ⚙ Local Chair: Leonardo Vanneschi
- ⚙ Business Committee: Peter A. N. Bosman, Anne Auger

About the Conference Venue

Lisbon has a history dating back more than 3,000 years, giving the Portuguese capital a rich cultural and artistic heritage. Its white houses crowned by reddish roofs are a distinctive image. The city, dotted with precious monuments that recall a splendid past, is crossed by the famous trams, which have become another symbol of the city and one of the preferred means of transport to reach neighborhoods such as Belém.

Find more about Lisbon at https://gecco-2023.sigevo.org/Venue.

The Altis Grand Hotel will provide a safe and inclusive environment, and there will be a conference attendee discount for rooms.

Important Dates

- ⚙ Tutorial/Workshop submission: 27 November
- ⚙ Notification Tutorial/Workshop acceptance: 9 December
- ⚙ Competition: 1 December
- ⚙ Notification of Competition acceptance: 15 December
- ⚙ Abstract submission: 3 February 2023
- ⚙ Paper submission: 10 February 2023
- ⚙ Notification of paper acceptance: 31 March 2023
- ⚙ GECCO 2023 Conference: July 15-19, 2023

SIGEVO Executive Board

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