



Genetic and Evolutionary Computation Conference

gecco-2021.sigev.org



Lille, France
July 10–14, 2021

One Conference — Many Mini-Conferences
Premier conference in the field of Genetic and Evolutionary Computation



The Genetic and Evolutionary Computation Conference 2021 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 (artificial life, artificial immune systems, generative and developmental systems, evolutionary robotics, evolvable hardware), digital entertainment technologies and arts, evolutionary combinatorial optimization and metaheuristics, evolutionary machine learning, evolutionary multiobjective optimization, evolutionary numerical optimization, hybrid approaches, real world applications, search-based software engineering, theory and more.

Call for Papers

Each paper submitted to GECCO 2021 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:

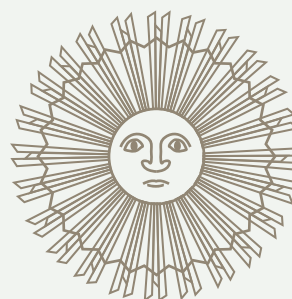
- Submit a final, revised, camera-ready version to the publisher on or before the camera ready deadline.
- Register at least one author to attend the conference on or before the advance registration deadline.
- Participate in the conference (at least one author).
- Present the accepted paper at the conference.

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. Contributions will be selected based on quality and interest to the GECCO community.

Call for Workshops and Tutorials

The GECCO 2021 Organizing Committee invites proposals for tutorials. They will be reviewed by the GECCO 2021 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 2021 website to check for deadlines.

The GECCO 2021 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 2021 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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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 (Artificial Life, Artificial Immune Systems, Generative and Developmental Systems, Evolutionary Robotics, Evolvable Hardware)
- ☉ 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 **NEW**
- ☉ 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

To address the growing interest in remote participation and in response to the coronavirus pandemic, selected events of GECCO 2021 will be made available online. Furthermore, remote participation will be possible. Details will be provided later on the conference website.

Contact

- 🏠 [GECCO site](#)
- 📘 [GECCO2021](#)
- 🐦 [GeccoConf](#)

GECCO Organizers

- ☉ General Chair: Krzysztof Krawiec
- ☉ Editor-in-Chief: Francisco Chicano
- ☉ Local Chair: Bilel Derbel
- ☉ Business Committee: Darrell Whitley, Peter Bosman

About the Conference Venue

Situated in the north of France, Lille is the fourth largest metropolitan area in the country and the capital of French Flanders. A major international hub, the city is 30 minutes away from Brussels, 60 from Paris and 80 from London by train. It also has easy access to four airports (including Roissy Charles de Gaulle, and Brussels' airports). Lille's own international airport is only 20 minutes away from the historic city center that features a gorgeous blend of French and Flemish architecture. As a flourishing cultural hub, Lille also takes pride in the friendliness of its people and in its thriving culinary scene that includes great local craft beers. Find out more about Lille at gecco-2021.sigevo.org

Important Dates

- ☉ Workshop proposals: November 5, 2020
- ☉ Tutorial proposals: November 5, 2020
- ☉ Notification of workshop and tutorial acceptance: December 3, 2020
- ☉ Abstract submission: January 28, 2021
- ☉ Full paper submission: February 4, 2021
- ☉ Poster-only submission: February 4, 2021
- ☉ Notification of paper acceptance: March 26, 2021
- ☉ GECCO 2021 Conference: July 10-14, 2021

SIGEVO Executive Board

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