

GI 2023

The 12th International Workshop on Genetic Improvement

<http://geneticimprovementofsoftware.com/events/icse2023>

Co-located with the 45th IEEE/ACM
International Conference on Software Engineering,
ICSE 2023, in Melbourne, Australia
14–20 May 2023 (one day)



Paper submission deadline: Friday 13th January 2023

Call for Submissions

We invite submissions that discuss recent developments in all areas of research on, and applications of, Genetic Improvement.

GI is the premier workshop in the field and provides an opportunity for researchers interested in automated program repair and software optimisation to disseminate their work, exchange ideas and discover new research directions.

Topics of interest include both the theory and practice of Genetic Improvement. Applications include, but are not limited to, using GI to:

- Improve efficiency
- Decrease memory consumption
- Decrease energy consumption
- Transplant new functionality
- Specialise software
- Translate between programming languages
- Generate multiple versions of software
- Improve low level or binary code
- Repair bugs
- GI techniques in industrial settings

Keynote

The keynote will be given by Prof. Myra B. Cohen head of Iowa State's bio-code assurance: LaVA-Ops

Key Dates

Submission	13 Jan 2023 (Fri)
Notification	24 Feb 2023 (Fri)
Camera-ready	17 Mar 2023 (Fri)
Workshop	14–20 May 2023 (one day)

Hybrid Event

In the event of the continued COVID19 pandemic, as with GI 2020-22, the workshop may be held online with recordings available on YouTube.

Student Funding

There will be up to five student travel awards.

Research and Position Papers

We invite submissions of two types of paper:

- Research papers (8 pages)
- Position papers (2 pages)

We encourage authors to submit early and in-progress work. The workshop emphasises interaction and discussion.

All papers should be submitted electronically via <https://gi-at-icse2023-workshop.hotcrp.com/> double-blind as PDFs in the ICSE conference format. All accepted papers must be presented at GI 2023 and will appear in the ICSE workshops volume. The official publication date of the workshop proceedings is the date the proceedings are made available by IEEE. This date may be up to two weeks prior to the first day of ICSE 2023. The official publication date affects the deadline for any patent filings related to published work.

Workshop Chairs

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