

# Genetic Improvement 2021

10th International Workshop on the Repair and Optimisation of Software  
using Computational Search

<http://geneticimprovementofsoftware.com/gi2021icse.html>

[@gi2021](https://twitter.com/gi2021)

## GI 2021

Co-located with the 43rd International  
Conference on Software Engineering

Madrid, Spain  
23–29 May 2021



**Paper submission deadline: 12 January 2021**

## 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
- Repair bugs

## Keynote

The keynote will be given by Prof. Stephanie Forrest, head of Arizona State University's Biodesign Institute and External Faculty of the Santa Fe Institute.

## Key Dates

<b>Submission</b>	12 January 2021 (Tue)
<b>Notification</b>	22 February 2021 (Mon)
<b>Camera-ready</b>	12 March 2021 (Fri)
<b>Workshop</b>	23–29 May 2021

## Virtual Event

Due to the Corona virus Pandemic, as with GI 2020, the workshop will be held on the Internet. GI 2020 was live via zoom and broadcast on YouTube (recording <https://youtu.be/GsNKCifm44A>).

## Research and Position Papers

We invite submissions of two types of paper:

- Research papers (limit eight pages)
- Position papers (limit two pages)

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

All papers should be submitted via HotCRP double-blind as PDFs (in the IEEE conference format as per the ICSE 2021 information).

All accepted papers must be presented at GI-2021 and will appear in the ICSE workshops volume. The official publication date of the workshop proceedings is the date the proceedings are made available online.

## Workshop Chairs

Justyna Petke	<a href="mailto:j.petke@ucl.ac.uk">j.petke@ucl.ac.uk</a>
Bobby R. Bruce	<a href="mailto:bbruce@ucdavis.edu">bbruce@ucdavis.edu</a>
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Aymeric Blot	<a href="mailto:a.blot@cs.ucl.ac.uk">a.blot@cs.ucl.ac.uk</a>
Westley Weimer	<a href="mailto:weimerw@umich.edu">weimerw@umich.edu</a>