

Proposal for workshops – AGILE 2024

Glasgow, Tuesday 4 June 2024

<https://agile-online.org/conference-2024>

1. Workshop name/title (and acronym is applicable)

FAIR Research Objects in GIScience (FAIRROGI)

2. Description of the workshop by listing topic(s), objective(s) and planned outcome(s)

2.1 Topic(s)

- FAIR and Open Research
- Reproducibility
- Research Data Infrastructures

2.2 Objective(s)

AGILE has been a front-runner of open and reproducible research with its requirement to include a software and data availability statement in each paper and the reproducibility review for accepted papers. The objective of this workshop is to further raise awareness of the importance of open and reproducible research practices in the AGILE community and enable researchers in the field to adopt those practices and make them the “new norm”.

2.3 Planned outcome(s)

The main outcome of this workshop will be twofold:

- 1. A collection of training materials developed by the AquaINFRA and NFDI4Earth teams presented at the workshop and published for reuse after the workshop*
- 2. A Zenodo Community with an initial set of FAIR research objects provided by the AGILE community, which can then be extended over the course of time*
- 3. Based on the discussion at the workshop and the learnings from the submitted research objects, the AGILE Reproducible Paper Guidelines will be amended to better handle FAIR ROs*

3. Abstract

Making research objects (ROs) such as data, code, or models, FAIR – Findable, Accessible, Interoperable, and Reusable – is an important building block towards reproducible research. This workshop will introduce GIScience researchers to the publication of FAIR ROs and show participants how to find and access them in repositories relevant for GIScience. Workshop participants who already have experience with the corresponding repositories will be invited to upload a FAIR RO to the community that will be created on Zenodo for this purpose. During the workshop, we will discuss these ROs as examples to learn the "do's" and "dont's" of publishing FAIR ROs, while also giving those researchers feedback to improve their publication practices. The workshop will be conducted by a team of organisers who are part of the AGILE reproducibility initiative and actively participating in the development of national research infrastructures and the European Open Science Cloud, respectively.

4. Short description of the intended length (half or full day) and the format of the workshop

This will be a half-day workshop where we will provide a short tutorial demonstrating the publication of FAIR research objects in the first half and discuss the research objects submitted to the Zenodo community created for this workshop in the second half.

5. Brief statement of the relevance of the workshop for AGILE

AGILE has put a lot of effort into making its conference proceedings' reproducibility and making the papers open access, so holding a workshop on the current state of affairs in this domain seems appropriate. Moreover, several AGILE members are involved in large projects developing research data infrastructures, so this workshop also provides a platform for them to share and discuss the progress in this regard with the wider community.

6. What is the approximate number of expected participants?

10–20, plus organisers

7. Names and e-mail addresses of the organizing member(s)

Leading AGILE member (or sponsor) and contact person:

Carsten Keßler, Bochum University of Applied Sciences, Germany

Contributing AGILE members (including the persons involved) – at least one seconding AGILE member is needed:

Carlos Granell Canut, Universitat Jaume I (UJI), Spain

Juha Oksanen, Finnish Geospatial Research Institute, Finland

Auriol Degbelo, Technical University of Dresden, Germany

8. Additional information about previous workshops, if held.

This workshop is loosely connected to previous reproducibility workshops held annually from 2017–2020.

9. Expected resources needed

The usual (room with a projector and internet connection) will do for this workshop.

10. Other information

Submission by e-mail to:

Dr Qunshan Zhao: Qunshan.Zhao@glasgow.ac.uk

Or Dr John Xiaogang Shi: John.Shi@glasgow.ac.uk