

## Proposal for workshops – AGILE 2023

Delft, Tuesday 13 June 2023

<https://agile-online.org/conference-2023>

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

25<sup>th</sup> ICA Workshop on Map Generalisation and Multiple Representation

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

#### 2.1 Topic(s)

- map feature geometry simplification, aggregation, typification, etc.;
- map generalization for emerging technologies such as augmented or virtual reality;
- abstraction or sense-making of 'Big Data';
- semantic generalization;
- continuous generalization;
- multi-scale interactions for visualisation and analysis;
- computational geometric methods;
- map label selection;
- edge bundling;
- evaluation and quality in generalization;
- perception and cognition of multi-scale visualisations
- map generalisation and multiple representations at national mapping agencies

#### 2.2 Objective(s)

For more than 25 years the ICA commission on map generalisation has organised workshops to gather researchers, practitioners in national mapping agencies, and software producers, to foster the development of automated map generalisation techniques. After a break in 2022, we plan to gather the European community on the topic to present the recent advances in the domain.

#### 2.3 Planned outcome(s)

Online proceedings and presentations.

### 3. Abstract

Though cartography has drastically changed in the past years with online interactive maps quickly replacing paper maps at one single scale, the need for map generalisation has not disappeared with the possibility to zoom in maps. Some old challenges stand still while others emerge, or become prominent. We want this workshop to be the meeting point of the traditional map generalisation practitioners and academics, as well as researchers interested in the abstraction and the multi-scale interactive visualisation of various types of spatial data.

The 25<sup>th</sup> ICA Workshop on Map Generalisation and Multiple Representation will be held prior to the AGILE 2023 conference. Participants of the workshop are invited to submit papers on ongoing research or position papers. Papers relating map generalisation or multiple representations to the theme of the AGILE conference, i.e. “spatial data for design” are highly encouraged.

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

We intend to have a half-day workshop, to allow both sufficient time for questions after presentations, and time for discussions in the afternoon. It is the usual duration for the workshop series in the past years.

- A keynote speech to start the workshop.
- two sessions with three/four short presentations in the morning
- One session with three/four presentations in the afternoon
- A panel discussion session to close the workshop

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

The ICA and AGILE research communities clearly overlap but are not the same, and the workshop would also attract the workshop attendees to the main conference. But the workshop is also in line with the theme of the conference, in particular with the will to extend the generalisation methods beyond the borders of traditional topographic mapping. Generalisation methods should be useful for proper multi-scale visualisation of spatial data for design.

### 6. What is the approximate number of expected participants?

25

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

*Leading AGILE member (or sponsor) and contact person:*

IGN France, contact person: Guillaume Touya (guillaume.touya@ign.fr)

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

TU Delft, contact person: Martijn Meijers (b.m.meijers@tudelft.nl)

Faculty of Geo-Information Science and Earth Observation (ITC), University of Twente, contact person: Paulo Raposo ([p.raposo@utwente.nl](mailto:p.raposo@utwente.nl))

FHNW University of Applied Sciences of Northwestern Switzerland, contact person: Pia Bereuter (pia.bereuter@fhnw.ch)

*Contributing non-AGILE members (including the persons involved) – if applicable:*

*Organizing Committee (if applicable):*

Pia Bereuter ; Martijn Meijers ; Paulo Raposo; Guillaume Touya;

*Programme Committee (if applicable):*

## 8. Additional information about previous workshops, if held.

As mentioned in the title, this workshop would be the 25<sup>th</sup> of the series. The details on these past workshops, as well as the proceedings and presentations, can be found online, on the website of the ICA commission on map generalisation <https://generalisation.icaci.org>

## 9. Expected resources needed

We would need an Internet connection sufficient to allow live streaming the workshop.

## 10. Other information