



Preface

Peter van Oosterom¹, Hendrik Ploeger², Ali Mansourian³, Simon Scheider⁴, Rob Lemmens⁵, and Bastiaan van Loenen²

¹ Department of Architectural Engineering and Technology, Delft University of Technology, Delft, The Netherlands

² Department of Urbanism, Delft University of Technology, Delft, The Netherlands

³ Department of Physical Geography and Ecosystem Science, Lund University, Lund, Sweden

⁴ Department of Geography and Spatial Planning, Utrecht University, Utrecht, The Netherlands

⁵ Department of Geoinformation Processing, University of Twente, The Netherlands

A warm welcome to Delft for the 26th AGILE international conference! This year's conference theme is 'Spatial data for design' to emphasize links between GI Science and various design activities, such as addressing data needed for spatial planning, and also spatial data used in the preparation and evaluation of various designs of human created objects; such as buildings, roads, dykes, parks, city (plans).

The conference attracted researchers, developers, lecturers, students, and practitioners in all facets of Geo-Information Science and Technology and their applications to present ongoing research, showcase products, network with colleagues from Europe and the rest of the world, and find out about the latest developments in the field.

1 Delft University of Technology

It is the first time that the AGILE conference is organized in Delft. Therefore, first some background on Delft University of Technology or TU Delft in short. TU Delft is an international university hosting over 27 thousand students, almost 3 thousand PhD candidates, and more than 6 thousand employees. TU Delft shares its fascination for science, design and technology, along with its expertise and talents to contribute to the challenges facing our world. Think of climate change and the energy transition, but also better and more affordable healthcare, clean water and sanitation. TU Delft does this with its research, the development of technological solutions and the education of the engineers of the future.

More than a fifth of TU Delft students and more than half of the scientific staff come from outside the Netherlands. TU Delft attaches great value to openness. It is the

frontrunner in the field of open education and science. TU Delft stimulates multidisciplinary team work between colleagues of different scientific disciplines and different university services. TU Delft also intensively collaborates with other universities (e.g., Erasmus University Rotterdam and Leiden University) in the field of education and science. TU Delft researchers collaborate with various partners in the Netherlands, Europe and globally. Scientists also collaborate widely with businesses and societal organisations. Various companies are located on campus and students and scientists receive help with starting and scaling up a knowledge-intensive companies.

TU Delft also performs research and education on and with geo-information in various places. In the Faculty of Architecture and The Built Environment two groups are spearheading the GI theme:

- The GIS Technology group, which concentrates on the spatial information infrastructure. Central point is durable geo-information that can be shared, re-used, based on joint definitions of data sets and services. Based on technology and technology development, the chair aims to contribute to the realisation of a spatial data infrastructure based on vario-scale spatiotemporal 2D – 5D models and processes for application areas like land administration and real-time GIS.
- The Urban Data Science group focuses on the technologies and governance models underpinning geographical information systems (GIS) and spatial data infrastructures. It aims at designing, developing, and implementing better systems to model (3D) cities, buildings and landscapes, as well as the governance mechanisms employed in concepts such as the 'open city' and 'the city as a service'.

The Faculty of Architecture and The Built Environment is also the home of the MSc. Geomatics for the built environment and a partner in the joint programme of the MSc GIMA (Geographical Information Management and Applications) together with University of Twente/ITC, Utrecht University and Wageningen University.

2 Programme composition

The call for submissions was organized in four categories, each with their own procedures: workshops, full papers, short papers and posters. The number of submissions in each of the categories was: 16 pre-conference workshop proposals, 22 full papers, 47 short papers, and 30 posters, resulting in a total of 115 submission. The workshop proposals were assessed by the AGILE 2023 Scientific Programme Committee co-chairs. After merging workshops with related content and separating workshops with a tutorial character, 7 workshops were selected for the workshop program and 3 tutorials were integrated into the conference sessions on the second day of the conference. The full papers, short papers and posters were reviewed by AGILE 2023 Scientific Programme Committee members. In total 415 reviews were submitted. Based on the reviews of the full papers one of the following decisions was taken: conditionally accept the full paper, suggest to resubmit as short paper, or reject. Based on the reviews of the short papers one of the following decisions was taken: conditionally accept the short paper, suggest to resubmit as poster, or reject. After taking into account the reviewers comments, the authors of conditionally accepted papers submitted a revised version. The revised versions were checked and edited by the co-chairs and final decisions were taken for these papers. Finally, based on the reviews of the posters, there was an accept or reject decision. As an outcome of this procedure, the final numbers of accepted submissions were: 14 full papers, 38 short papers, and 26 posters.

The conference consists of 15 parallel oral presentation sessions, two keynote sessions, one poster session, two best (one full and one short) paper and one best poster session, as well as 7 pre-conference workshops. The full papers are published in the AGILE GIScience Series by Copernicus Publishers, the short papers will be published by the same publisher in a separate volume, and the posters will be featured at the AGILE 2023 website. The varied social program of the conference allows for networking with colleagues and students in a relaxed setting.

Similar to previous conferences in the AGILE Conference series, the full paper submissions were asked to adhere to the AGILE Reproducible Paper Guidelines. In addition to the peer review, a reproducibility review by an

independent expert committee took place as part of the Reproducible AGILE initiative (<https://reproducible-agile.github.io/>). If significant parts of a computational workflow could be reproduced, the paper was awarded the "AGILE Reproducible" badge. The badge links to a report which documents the completed steps of the reproduction of a paper's results.

3 Acknowledgements

We would like to thank the authors for their submissions, the reviewers for the constructive comments and fair evaluations providing a solid basis for the selection, and our colleagues from the local organising committee for the pleasant teamwork in the preparation of AGILE2023. Finally we would like to thank our sponsors, ESRI and CGI, for enabling us to put the cherries on the cake!

Enjoy AGILE 2023!

AGILE 2023 Scientific Programme Committee co-chairs,
Peter van Oosterom, Hendrik Ploeger, Ali Mansourian,
Simon Scheider, Rob Lemmens, Bastiaan van Loenen