

# Preface

Since 1998, the Association of Geographic Information Laboratories in Europe (AGILE) has promoted academic teaching and research on geographic information at the European level. Its annual conference reflects the variety of topics, disciplines, and actors in this research area. It provides a multidisciplinary forum for scientific knowledge production and dissemination and has gradually become the leading Geographic Information Science Conference in Europe.

For the tenth consecutive year, the AGILE Conference's full papers are published as a book by Springer-Verlag. This year, 48 documents were submitted as full papers, of which 23 were accepted for publication in this volume, after a thorough selection and review process. We congratulate the authors for the quality of their work, and thank them for their contribution to the success of the AGILE Conference and the book series. We also want to use this opportunity to acknowledge the numerous reviewers for providing us with their thorough judgments. Their work was fundamental to select the very best papers, and ultimately for the quality of this volume.

Under the title *Geospatial Data in a Changing World*, this book aims to envision the ways in which GIScience may contribute to the ever-growing need for geospatial data, when resolving the emerging challenges of our society, from climate change to people's mobility.

The scientific papers published in this volume cover a wide range of associated topics. The first part covers the challenges of cognitive and computational aspects on spatial concepts, giving the foundation to understand and perceive our environment in the future. The second part focuses on crowdsourcing and social networks reflecting the change in people's everyday relation and involvement with geospatial data. The third part gives foresights on how to analyze and visualize (big) spatial data to understand spatial phenomena. The fourth part covers pedestrian and vehicle mobility studies, emphasizing people's mobility and the requirements to develop more intelligent solutions for smart cities. The fifth, and the last part, gives insight related to the utilization of new data sources in information retrieval, modelling, and analysis.

Organizing a programme for an international conference and editing a volume of scientific papers takes time, effort and support. The input from the AGILE Council and Committees has been an important asset for us, and we are grateful to all members for their contributions.

We would also like to thank our sponsors for their kind contributions to the 19th AGILE Conference on Geographic Information Science and Springer-Verlag for their willingness to publish the accepted full papers in their academic series, Springer Lecture Notes in Geoinformation and Cartography.

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