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Ali Mansourian · Petter Pilesjö
Lars Harrie · Ron van Lammeren
Editors

Geospatial Technologies for All

Selected Papers of the 21st AGILE
Conference on Geographic Information
Science

 Springer

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Preface

The Association of Geographic Information Laboratories in Europe (AGILE) has held annual conferences focusing on Geographic Information Science for more than two decades. The themes of the conferences have varied in response to changing research trends. In this way, the annual conference has always remained relevant and current and is an important meeting point for European as well as non-European researchers in the field. The annual AGILE conference is now widely held to be the most important academic Geographic Information Science conference in Europe.

The 21st AGILE conference took place in Lund, Sweden, on 12–15 June, 2018. The theme of the conference was *Geospatial Technologies for All*. The conference accepted full papers, short papers and posters and included a workshop day prior to the main conference. For more than a decade, the full papers from the annual conference have been published as a book by Springer International Publishing AG. This year there were 46 full papers submitted to the conference, of which 19 were accepted for publication in this volume, its title taken from the conference theme. We would like to thank all of the authors for their contributions, which are a critical prerequisite for maintaining the quality of AGILE conference. We would also like to thank all the reviewers in the Scientific Committee for carefully reviewing the papers, which enabled us to make this selection.

The papers in this volume are divided into four parts. Part I deals with *Natural Resource Management and Earth Observation* and includes five studies about how geospatial technologies can contribute to a sustainable development of our environment. During recent years' AGILE conferences, there have been many submissions in the field of *Volunteered Geographic Information (VGI) and Participatory GIS*. This trend has continued this year, and the six papers in part two of this volume represent that work. Part III is called *Spatiotemporal Data Modelling and Data Mining*, and it includes six papers that describe new methods for understanding spatiotemporal phenomena. A notable reflection here is the increasing importance of the temporal dimension, as seen in several submissions; GIScience is about more than just space. The final Part IV of this volume deals with the issue of *Quality and Uncertainty of Geographic Information*, a key issue for

everyone that wants to make a decision based on spatial analysis. To sum up, we think that the 19 contributions published in this volume give a broad overview of the field at this time and do a superb job in exemplifying the title of this book: *Geospatial Technologies for All*.

We are grateful to everyone that has helped us with editing this volume, as well as creating the programme for the 21st AGILE conference. The AGILE Council was of key assistance in the scientific organization of the conference. We also would like to thank our colleagues at Lund University for all their help with the various large and small tasks that enable a conference like this to succeed. We would also like to thank Springer International Publishing AG for their helpful cooperation, and for continuing to provide the opportunity to publish the selected full papers in their academic series, Springer Lecture Notes in Geoinformation and Cartography.

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February 2018

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Contents

Part I Natural Resource Management and Earth Observation

Evaluating Spatial Data Acquisition and Interpolation Strategies for River Bathymetries	3
Robert Krüger, Pierre Karrasch and Lars Bernard	
PLANTING: Computing High Spatio-temporal Resolutions of Photovoltaic Potential of 3D City Models	27
Syed Monjur Murshed, Amy Lindsay, Solène Picard and Alexander Simons	
Interpolation of Rainfall Through Polynomial Regression in the Marche Region (Central Italy)	55
Matteo Gentilucci, Carlo Bisci, Peter Burt, Massimilano Fazzini and Carmela Vaccaro	
An Artificial Stream Network and Its Application on Exploring the Effect of DEM Resolution on Hydrological Parameters	75
Haicheng Liu	
Spatio-Temporal Analysis of Mangrove Loss in Vulnerable Islands of Sundarban World Heritage Site, India	93
Biswajit Mondal and Ashis Kumar Saha	

Part II Volunteered Geographic Information and Participatory GIS

3D Georeferencing of Historical Photos by Volunteers	113
Timothée Produit and Jens Ingensand	

Patterns of Consumption and Connectedness in GIS
Web Sources 129
 Andrea Ballatore, Simon Scheider and Rob Lemmens

Charting the Geographies of Crowdsourced Information in Greater London 149
 Andrea Ballatore and Stefano De Sabbata

Supporting the Monitoring of Cheetahs in Kenya by Mobile Map Apps 169
 Jan Jedersberger, Christian Stern, Mary Wykstra and Gertrud Schaab

Introducing Spatial Variability to the Impact Significance Assessment 189
 Rusne Sileryte, Jorge Gil, Alexander Wandl and Arjan van Timmeren

Development of System for Real-Time Collection, Sharing, and Use of Disaster Information 211
 Toshihiro Osaragi and Ikki Niwa

Part III Spatiotemporal Data Modelling and Data Mining

A Top-Down Algorithm with Free Distance Parameter for Mining Top-k Flock Patterns 233
 Denis Evangelista Sanches, Luis O. Alvares, Vania Bogorny, Marcos R. Vieira and Daniel S. Kaster

Optimization and Evaluation of a High-Performance Open-Source Map-Matching Implementation 251
 Karl Rehrl, Simon Gröchenig and Michael Wimmer

A Personalized Location-Based and Serendipity-Oriented Point of Interest Recommender Assistant Based on Behavioral Patterns 271
 Samira Khoshahval, Mahdi Farnaghi, Mohammad Taleai and Ali Mansourian

Identifying and Interpreting Clusters of Persons with Similar Mobility Behaviour Change Processes 291
 David Jonietz, Dominik Bucher, Henry Martin and Martin Raubal

Mixed Traffic Trajectory Prediction Using LSTM-Based Models in Shared Space 309
 Hao Cheng and Monika Sester

**A Framework for the Management of Deformable
Moving Objects** 327
José Duarte, Paulo Dias and José Moreira

Part IV Quality and Uncertainty of Geographic Information

A Positional Quality Control Test Based on Proportions 349
Francisco Javier Ariza-López, José Rodríguez-Avi
and Virtudes Alba-Fernández

**Animation as a Visual Indicator of Positional Uncertainty in
Geographic Information** 365
Carsten Keßler and Enid Lotstein