Lecture Notes in Geoinformation and Cartography

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(Eds.)

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with Geo-information

With 190 Figures

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Preface

The *Association of Geographic Information Laboratories for Europe (AGILE)* conferences provide a multidisciplinary forum for an increasingly varied landscape of scientific knowledge production and dissemination, to GI Scientists from around the world. This year's landmark *10th AGILE Conference,* held at the top of Europe in Aalborg, Denmark, brought a number of significant changes to the well-established conference series.

For the first time the call for papers included a full-paper submission track of original, unpublished, fundamental scientific research, the results of which you will find published in this volume. The response for this call provides ample evidence that GI Science and Systems are alive and well in Europe. Twenty-eight papers (out of 62 submissions) were accepted for this volume (acceptance rate: 45%). Judging by the author's affiliations in this volume, the diverse AGILE Community includes (but is not limited to) computer scientists, geographers, geomatic engineers, GI Science practitioners, just to mention a few.

The breadth of submissions reflects a vibrant and globally interconnected GI Science community. You will find contributions from all four corners of Europe, as well as from China, Japan, and the United States. The conference covered a variety of different research areas which structure this volume. On-going basic GI Science research topics include addressing interoperability and ontological challenges, and addressing data representation, usability, and data quality concerns. Amongst the technological advancements, development of spatial web services to contribute to robust spatial data infrastructures is a growing research domain. Applied research is continuously concerned with solving environmental modelling and management problems, as well as investigating urban modelling and analysis issues. Applied research areas on the rise include developing effective mobile and collaborative applications.

The AGILE 2007 conference would not have been possible without the commitment, perseverance, and help of many people. We would like to thank the people at VisitAalborg and Local Committee chair, Lars Bodum,

and his Aalborg crew of conference organizers. Arzu Çöltekin was an invaluable help for putting together the paper submissions in this volume. We are grateful to Javier Moya Honduvilla from the Polytechnnic University of Madrid, for designing the front cover. Special thanks go out to the Programme Committee for their excellent support under considerable time constraints. Last but not least, we thank all the authors who took the time and effort to submit their best work to AGILE 2007.

March 2007   Monica Wachowicz and Sara Irina Fabrikant

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