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Rodrigo Tapia-McClung · Oscar Sánchez-Siordia ·  
Karime González-Zuccolotto ·  
Hugo Carlos-Martínez  
Editors

# Advances in Geospatial Data Science

Selected Papers from the International  
Conference on Geospatial Information  
Sciences 2021

 Springer

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# Preface

This volume consists of the selected peer-reviewed papers from the International Conference on Geospatial Information Sciences 2021 that took place on November 3–5, 2021. Initially planned to be held in person in Mérida, Yucatán, Mexico, due to the coronavirus pandemic it was decided to be an online event. These papers were selected by the Scientific Program Committee of the Conference after a peer-review process. They represent the vast scope of the interdisciplinary research areas that characterize the Geospatial Information Sciences. It represents a fabulous opportunity to showcase research carried out by young researchers, especially Mexican ones, show it to the rest of the world, and enhance the growth of the Sciences in the country.

iGISc 2021 is the second iteration of a successful conference that aims at bringing together international experts in the field of Geospatial Information Sciences (GISc) to foster the exchange of ideas, knowledge, and experiences. The conference hosts a broad array of subjects related to the acquisition, processing, modeling, analysis, visualization, and use of Geographic Information.

As an emergent conference in the country, the first edition brought together little less than 100 experts and students in the field. In contrast, the online version of the conference attracted more than 300 participants. Apart from the oral presentations of the selected papers, the conference boasted an interesting offer of workshops covering different topics and aspects of the use of Geospatial Information Sciences. Additionally, several keynote speakers were invited to share their knowledge and insights with the participants.

Please visit the iGISc website at <http://igisc.org> where you can find all about this interesting event.

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Mexico City, Mexico  
Mérida, Yucatán, Mexico  
November 2021

Rodrigo Tapia-McClung  
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Special thanks go to our keynote speakers, Mateo Valero (Barcelona Supercomputing Center, Universitat Politècnica de Catalunya), Alberto Giordano (Texas State University), Ulises Cortés (Barcelona Supercomputing Center, Universitat Politècnica de Catalunya), Alison Heppenstall (University of Leeds), Andrew Crooks (University at Buffalo), and Daniel Arribas-Bel (University of Liverpool), as well as the workshop presenters.

We would also like to thank all the presenters and participants who put a lot of effort in being part of our *Gather* community. While trying to adjust to time differences all over the globe, we are grateful for those participants who were able to catch the presentations live, as this year's participants came from countries across different time zones.

Additional thanks go to the publisher, Springer, for their help and support throughout the editing process and for accepting publishing these proceedings.

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