

10th International Conference on Geographic Information Science

GIScience 2018, August 28–31, 2018, Melbourne, Australia

Edited by

Stephan Winter

Monika Sester

Amy L. Griffin



LIPICS



Editors

Stephan Winter Infrastructure Engineering The University of Melbourne Australia winter@unimelb.edu.au	Monika Sester Cartography and Geoinformation University of Hannover Germany monika.sester@ikg.uni-hannover.de
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Amy L. Griffin
Geospatial Sciences
RMIT University
Australia
amy.griffin@rmit.edu.au

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■ Preface

The Tenth International Conference on Geographic Information Science, GIScience, was held in Melbourne, Australia, 28–31 August 2018. Hosted at RMIT University in collaboration with the University of Melbourne, GIScience 2018, the flagship conference in the field of geographic information science continued the highly successful conference series, which started in 2000.

The conference regularly brings together more than 300 international participants from academia, industry, and government to discuss and advance the state-of-the-art in geographic information science. August 28, 2018 was dedicated to Workshops and Tutorials. The main conference took place from August 29 to 31, 2018, and consisted of two refereed paper tracks: Full papers and short papers/extended abstracts. The latter track allowed authors to choose between published short papers and unpublished extended abstracts; both types were treated equally in the review process, and both were presented orally at the conference. This volume of proceedings contains only the full papers and the short papers.

For GIScience 2018, we received 46 full paper submissions. Each full paper was read by at least three members of the international program committee. 17 of the full paper submissions made it through the selection process for presentation at the conference and publication in this volume (37%). We also received a total of 113 submissions in the short papers/extended abstracts track. These short papers and extended abstracts were reviewed by at least two members of same program committee. We accepted a total of 89 short papers and extended abstracts for presentation at the conference (75%). The authors of 56 of these selected submissions chose the option of having a short paper, which are published in the second part this volume.

Bringing the GIScience conference to Australia was also coupled with the hope of attracting more participants from the Asia-Pacific region, which was fulfilled: This year's conference saw strong participation from scientists based in Asia, with 22% of accepted presentations including at least one author who was affiliated with an institution in Asia – a significant increase compared to prior events in this series. Of course the decision to bring the conference to Australia came also with a price tag for the European and North American scientific community. The chairs are thankful for the effort this community made.

The GIScience conference series has always had a focus on fundamental research themes and questions. Papers advancing the field methodologically or theoretically are encouraged; papers strictly dealing with applications are discouraged. GIScience 2018 welcomed papers and proposals covering emerging topics and fundamental research findings across all sectors of geographic information science, including (but not limited to) the role of spatial information in geography, computer science, engineering, information science, linguistics, mathematics, cognitive science, philosophy, psychology, social science, and geostatistics. In GIScience 2018 a number of papers have been related to the emerging topic of (Deep) Learning.

GIScience is a community-run conference series, backed by a steering committee. The organizers of GIScience 2018 are grateful for the trust and advice by the committee. A number of people have contributed to the organization of this conference, many of them in chairing roles or on the program committees of the conference or its satellite events. This year's GIScience program committee had a record number of 127 volunteers from all over the world. We would also like to take the opportunity to thank all those people usually unnamed on websites and in proceedings: the staff managing registrations, the student volunteers helping with a smooth event, and the proceedings editor, Subhrashanka Dey. The true



makers of a conference are, of course, the authors and participants of the conference.

From 2018 onwards, GIScience conference proceedings will be published in LIPIcs, the Leibniz International Proceedings in Informatics series. LIPIcs volumes are peer-reviewed and published according to the principle of open access, i.e., they are available online and free of charge. Each article is published under a Creative Commons CC BY license (<http://creativecommons.org/licenses/by/3.0/>), where the authors retain their copyright. Also, each article is assigned a DOI and a URN. The digital archiving of each volume is done in cooperation with the Deutsche Nationalbibliothek/German National Library. We hope that this more community-spirited format helps further with the growth and impact of GIScience.

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