



GIScience 2018

10th International Conference on Geographic Information Science

<http://www.giscience.org> | @GIScience2018, #GIScience2018

Melbourne, Australia, 28-31 August 2018

FIRST CALL FOR PAPERS

The **Tenth International Conference on Geographic Information Science** will be 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 continues 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 is dedicated to Workshops and Tutorials. The main conference takes place from August 29 to 31, 2018, and consists of two refereed paper tracks: Full papers and short papers/extended abstracts. This second track allows authors to choose between published short papers and unpublished extended abstracts.

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 welcomes 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 geographic information in geography, computer science, engineering, information science, linguistics, mathematics, cognitive science, philosophy, psychology, social science, and geostatistics.

From 2018 onwards, GIScience proceedings will be published in LIPIcs, the Leibniz International Proceedings in Informatics series (<https://www.dagstuhl.de/en/publications/lipics>). 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. A number of high-standing international conferences have already made the move to LIPIcs.

ORGANIZATION

- General Chair:** Prof Matt Duckham, RMIT University
- Program Co-Chairs:** Prof Stephan Winter, University of Melbourne
Dr Amy Griffin, UNSW
Prof Monika Sester, Leibniz Universität Hannover
- Local Organization Chair:** Prof Allison Kealy, RMIT University
- Publicity Chair:** Dr Martin Tomko, University of Melbourne
- Workshops Chair:** Dr Maria Vasardani, University of Melbourne

CONFERENCE TOPICS

Contributions are invited from a wide range of disciplines related to Geographic Information Science, including:

- Geography
- Cognitive science
- Computer science
- Engineering
- Information science
- Linguistics
- Mathematics
- Philosophy
- Psychology
- Social science
- (Geo)Statistics
- Data science

We welcome topics covered in previous GIScience proceedings, but we also encourage papers on new and emerging or under-represented topics, such as:

- GIScience of the Internet of Things
- GeoSemantic Web
- GIScience in mobility, including autonomous vehicles
- Advances in geosimulation
- GIScience and location privacy
- Spatial Big Data
- (Deep) Machine Learning

KEY DATES

- **FULL PAPER TRACK**

Full paper submissions:	16 February 2018
Full paper notification:	20 April 2018
Full paper revisions:	03 June 2018
Full paper author registration deadline:	03 June 2018

- SHORT PAPERS/EXTENDED ABSTRACTS TRACK

Short paper/extended abstract submission:	30 April 2018
Short paper/extended abstract notification:	25 May 2018
Short paper/extended abstract revisions:	03 June 2018
Short paper and extended abstract author registration:	03 June 2018

- CONFERENCE

GIScience 2018 Workshops:	28 August 2018
GIScience 2018 Conference:	29-31 August 2018

INFORMATION FOR AUTHORS

- Full Paper Track

Full papers will be thoroughly reviewed by at least three members of the international program committee. High-quality submissions will be accepted for presentation at the conference and published in LIPIcs, the *Leibniz International Proceedings in Informatics* series. Manuscripts must describe original work that has neither been published before, nor is currently under review elsewhere. Papers must be written in English and should not exceed fifteen pages (including title, figures, and references) in the required layout (see below).

- Short Paper and Extended Abstract Track

Short papers and extended abstracts on work in progress are both of the same format, undergo the same reviewing process, and are both presented at the conference. Accepted papers in this track will be selected for either oral or poster presentation.

The authors choose their category: If a submission to this track is accepted, then a *short paper* will be published in the LIPIcs conference proceedings, while an *extended abstract* will not be formally published in the proceedings. Short papers and extended abstracts must be written in English and should not exceed six pages (including title, figures, and references) in the requested LIPIcs layout. In addition, each submission must have a subtitle, which is either *Short Paper* or *Extended Abstract*. Both short papers and extended abstracts will be reviewed by at least three members of the international program committee.

- Formatting instructions (all tracks)

The layout of any submission to GIScience, whether full paper, short paper or extended abstract, should follow the sample article provided by LIPIcs (<http://drops.dagstuhl.de/styles/lipics-v2016/lipics-v2016-authors.tgz>). LIPIcs also provides a LaTeX class and template for papers. Authors unfamiliar with LaTeX, but keen to try, are highly encouraged to use Overleaf (<http://www.overleaf.com>), an online LaTeX editor that is easy to use and does not require any local installation. Overleaf comes with the LIPIcs class and template pre-loaded (<https://www.overleaf.com/latex/templates/article-for-the-lipics-series/qmwncxspzfst>), so you can immediately start typing. Overleaf is also a collaborative writing tool,

allowing multiple authors to work on their paper concurrently. Authors who want to use other text editors should stay close to the sample article's layout for their paper submitted for review. Should their papers be accepted for publication, they have to be converted to LaTeX using the LIPICs LaTeX class and template. Authors are responsible for the conversion of their papers to LaTeX. We are currently making an arrangement with a commercial conversion service to provide you a one-stop solution if you do not want to do the conversion yourself (<http://wordtolatex.com/upload>). This company is informed about the conference's needs and the required LIPICs class, and offers an academic discount.

- **Submission instructions and publication details (all tracks)**

Submission for review. First submissions (for review) should be provided in PDF format through the conference website on EasyChair (<https://easychair.org/conferences/?conf=giscience18>).

Final submission. The accepted and revised papers must also be submitted through the EasyChair website (<https://easychair.org/conferences/?conf=giscience18>), but now as a zipped, complete LaTeX project, including all tex source files, figures in jpg or png, a bib file (alternatively, a bibliography section included in the tex file), and a pdf, all camera-ready.

Publication. In order for an accepted paper to be published in the conference proceedings (full papers, short papers) or included in the conference program (extended abstracts), at least one of the paper authors has to register by the author registration deadline above.