

**R@Loc 2016**  
RESEARCH@LOCATE'16

Proceedings of the 3<sup>rd</sup> annual conference

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## Preface

Locate is the annual conference on spatial information in Australia and New Zealand. The event, running for its third year, is an initiative of the Surveying & Spatial Sciences Institute (SSSI), Spatial Industries Business Association (SIBA), and Geospatial Information & Technology Association (GITA). Locate aims to unite all communities—research, industry, and government—working in the field of spatial information.

Research@Locate is the academic research stream of Locate. Also in its third year, this conference series has been organized independently by the Australasian Spatial Information Education and Research Association (ASIERA), with the aim of being the premier academic meeting event in the Australasian region.

Research@Locate'16 is organized by the Research@Locate'16 committee, providing carefully selected presentations and peer-reviewed short papers showcasing the latest research advances from researchers at all stages of their career, and from across the breadth of fundamental and applied spatial sciences. Research@Locate makes available its papers in the form of an annual, open-access proceedings.

The presentations this year were held across two days, and organized around four themes (sessions): Build, Prosper, Protect, and Sustain.

### Acknowledgements

Research@Locate would not have happened without the support of the institutions behind Locate; SIBA and SSSI. We also wish to thank our colleagues that served on the International Program Committee.

Alan Both, Local Organizing Chair  
Matt Duckham, Chair  
Allison Kealy, Chair

April 2016

## Organization

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Allison Kealy, University of Melbourne

### Local Organizing Chair

Alan Both, RMIT University

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# Conference Program

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7 End User Awareness Towards GNSS Positioning Performance and Testing <i>Ridhwanuddin Tengku and Allison Kealy</i>	
13 Introducing a Framework for Automatically Differentiating Witness Accounts of Events from Social Media <i>Marie Truelove, Maria Vasardani, and Stephan Winter</i>	
19 Mining the Co-existence of POIs in OpenStreetMap for Faulty Entry Detection <i>Alireza Kashian, Kai-Florian Richter, Abbas Rajabifard, and Yiqun Chen</i>	
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25 Exploring Kimberley Bushfires in Space and Time <i>Ulanbek Turdukulov and Tristan Fazio</i>	
30 The Case Study of an Australian Crime Dataset <i>Jessica Liebig and Asha Rao</i>	
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41 Historic Urban Landscapes and Visualising Ballarat: Citizen Participation for Sustainable Urban Planning and Design <i>Angela Murphy, Peter Dahlhaus, and Helen Thompson</i>	
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47 The Victorian Digital Cadastre: Challenges and Investigations <i>Hamed Olfat, Davood Shojaei, and Mark Briffa</i>	
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59 Using GIS Techniques and Quantitative Morphometric Analysis to Evaluate the Groundwater Resources in the Central Flinders Ranges, South Australia <i>Alaa Ismail and Ian Clark</i>	
65 Diurnal and Seasonal Surface Temperature Variations: A Case Study in Baghdad <i>Mustafa Naem, Robert Corner, and Ashraf Dewan</i>	