

R@Loc 2017
RESEARCH@LOCATE17

Proceedings of Research@Locate,
the academic research stream at the 4th
annual conference of
Digital Earth & Locate

Sydney, Australia
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Preface

Locate is the annual conference for the spatial information and surveying industries in Australia and New Zealand. It is the meeting point of industry, government and academia. Locate17 is an initiative of the Surveying and Spatial Sciences Institute (SSSI), Spatial Industries Business Association (SIBA) and Geospatial Information & Technology Association (GITA). Locate17 was held jointly with the International Symposium on Digital Earth, a flagship event of the International Society for Digital Earth (ISDE), during 3-6 April 2017 at the new International Conference Centre, Sydney.

Research@Locate, the academic research stream at Locate, aims to be the premier academic meeting event in the Australasian region. Research@Locate17 was organised by the Australasian Spatial Information Education and Research Association (ASIERA). Research@Locate provides a transparent full-paper peer review process, with carefully selected presentations and papers, and with its own annual, open-access proceedings

The presentations this year were held across two days, and organised around 20 streams. Papers published here were presented in six streams: Land Surveying & Administration, Big Data, Disaster & Emergency Management, Smart Sensors for Natural Resource management, Spatial Infrastructure, and Geospatial and Economy.

Acknowledgements

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Xiaoli Deng, Chair
Christopher Pettit, Chair
Simone Zarpelon Leao
Jonathan Doig

April 2017

Organisation

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Scientific Organising Committee

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Conference Program

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Wednesday 5 April

Stream 1, Land Surveying & Administration

The Current Status and Ongoing Investigations of 2D and 3D Digital Cadastre (ePlan) in Victoria, Australia

Hamed Olfat, Davood Shojaei, Mark Briffa and Abbas Rajabifard 1-6

Stream 3, Big Data

GSKY: A scalable, distributed geospatial data-server

Pablo Rozas Larraondo, Sean Pringle, Joseph Antony and Ben Evans 7-12

Stream 5, Disaster & Emergency Management

Convenience Rating of Post-disaster Recovery Housing Complexes Constructed in Miyagi Prefecture following the 2011 Tohoku Earthquake

Noriaki Endo 13-18

Stream 6, Smart Sensors for Natural Resource Management

Disaggregation of SMAP radiometric soil moisture measurements at catchment scale using MODIS land surface temperature data

I.P. Senanayake, I.Y. Yeo, N. Tangdamrongsub, G.R. Willgoose, G.R. Hancock and T. Wells 19-24

Stream 7, Spatial Infrastructure

Identifying optimal sites for static speed cameras in New Zealand

Natalie Scott and Dale Harris 25-30

Thursday 6 April

Stream 3, Big Data

Real-time detection and tracking of pedestrians in CCTV images using a deep convolutional neural network

Debaditya Acharya, Kourosh Khoshelham and Stephan Winter 31-36

Stream 5, Geospatial & Economy

Detecting trends in cereal crop sowing dates using Landsat

David Gobbett and James Hunt 37-42