

# International Symposium on SMART FUTURE CITIES

THE ROLE OF SPATIAL DATA AND URBAN ANALYTICS

27-28 September 2016



**CSDILA**  
THE CENTRE FOR SPATIAL  
DATA INFRASTRUCTURES  
& LAND ADMINISTRATION



MELBOURNE  
SCHOOL OF  
ENGINEERING

**SYMPOSIUM DAY 1: SMART FUTURE CITIES**

**PROGRAM DAY: Tuesday 27<sup>th</sup> September 2016**

**Venue:** Old Engineering Building, Building 173, The University of Melbourne

TIME	DETAILS	
8:30am – 9:00am	Arrival and Registration	
<b>OPENING SESSION</b>		
9:00am – 9:30am	<b>Welcome And Setting The Scene</b> Prof. Abbas Rajabifard (Symposium Chair) and Prof. Ian Williamson (CSDILA)	
	<b>Welcome Note From School Of Engineering</b> Prof. Peter Scales (Deputy Dean, School of Engineering, The University of Melbourne)	
<b>KEYNOTE SESSION 1</b> Chair: Prof. Ian Williamson		
	<b>Global Trends – UN Development</b> Mr. Greg Scott (United Nations Inter-Regional Advisor, Global Geospatial Information Management Initiative)	
	<b>Trends In National And State Planning</b> The Hon. Gary Nairn (Chairman of Northern Territory Planning Commission)	
9:30am – 10:45am	<b>The Role Of Land Authorities In Developing Smart Future Cities - The Victorian Case Study</b> Mr. Mark Briffa (Manager, Electronic Subdivision Unit, Department of Environment, Land, Water and Planning, Victoria)	
	<b>Geoscape</b> Mr. Dan Paull (CEO, PSMA Australia)	
10:45am – 11:15am	Morning Tea	
<b>PARALLEL SESSION 1</b>		
	<b>A1 Theatre, Old Engineering</b> <b>Theme 1: Infrastructure Development and Environmental Challenges</b> Chair: The Hon. Gary Nairn	<b>Brown Theatre, Electrical Engineering</b> <b>Theme 2: Spatial Data Infrastructures and e-Governance</b> Chair: Mr. Brian Marwick
	<b>Environmental Extremes In A Period Of Climate Change</b> Prof. Ian Young (Department of Infrastructure Engineering, The University of Melbourne)	<b>Victoria's Journey Towards E-Plan And 3D Digital Cadastre</b> Dr. Hamed Olfat (Geospatial Consultant and ePlan Coordinator) and Dr. Davood Shojaei (ePlan Project Officer), Department of Environment, Land, Water and Planning, Victoria
	<b>National Infrastructure Policies</b> Prof. Colin Duffield (Department of Infrastructure Engineering, The University of Melbourne)	<b>SDI Performance To Support Smart City Development In Indonesia</b> Dr. Heri Sutanta (Director, Centre for Spatial Data Infrastructures Development, Universitas Gadjah Mada)
11:15am – 12:45pm	<b>HERE Vision For Smart Cities</b> Mr. Ross Calow (Senior Account Executive (APAC) Asia Pacific, HERE)	<b>Digital City And E-Government – China</b> Prof. Bo Fan (Public Administration Department, School of International and Public Affairs, SJTU Member of E-Government Research Center, Tsinghua University)
	<b>Use Of Spatial Data And Urban Analytics In Climate Adaptation And Environmental Issues</b> Prof. Barbara Norman (Director of Canberra Urban and Regional Futures (CURF), The University of Canberra)	<b>Urban Governance and Smart Future Cities in Africa: Flagship projects as Springboard?</b> Dr. Muyiwa Agunbiade (Senior Lecturer, Department of Urban and Regional Planning, University of Lagos)
	<b>Smart Cities And Collaborative Intelligent Transport Systems</b> Dr. Hossein Parsa (Manager Spatial Services - VicRoads)	<b>Economic Modelling and Planning Towards Smart Cities: Enabled By Digital Economy and ICT</b> Dr. Zhixuan (Jenny) Yang (Lecturer, Dongbei University of Finance and Economics, China)
12:45pm – 1:45pm	Lunch	

# International Symposium on SMART FUTURE CITIES

THE ROLE OF SPATIAL DATA AND URBAN ANALYTICS

27-28 September 2016



**CSDILA**  
THE CENTRE FOR SPATIAL  
DATA INFRASTRUCTURES  
& LAND ADMINISTRATION



MELBOURNE  
SCHOOL OF  
ENGINEERING

## PARALLEL SESSION 2

A1 Theatre, Old Engineering

**Theme 3: National and International Initiatives**  
Chair: Mr. Greg Scott

**Quantitative Urban Environmental Simulation Tool To Support Smart Nation Planning - The Case Of Singapore**

Mr. Lim Tian Kuay (Deputy Director (Climate Studies), National Environment Agency, Singapore)

**Advanced Survey and Title Survey System Initiatives In New Zealand**

Mr. Mark Dyer (Surveyor General, Land Information New Zealand)

**The Hierarchy of Australian Cities and the N-Bottom-Line Impacts of Change in Urban Morphology**

Prof. Greg Foliente (CSIRO Land and Water, and The University of Melbourne, Australia)

**Building The Foundation Spatial Models, Referencing Our Recent Work In Singapore**

Mr. Braith McClure (General Manager Surveying - East, AAM Group)

**3D City Model And Urban Management/Planning In A Capital City**

Mr. David Hassett (Team Leader GIS, Smart Cities Office, City of Melbourne)

Brown Theatre, Electrical Engineering

**Theme 4: CSDILA Research Initiatives**  
Chair: Mr. Chris Body

**Exploring Innovation in City Systems through 'Internet of Things'**

Mr. Alireza Kashian (PhD Candidate, The University of Melbourne)

**The Role Of Social Media In Smart Emergency Management For Future Cities**

Mr. Farhad Laylavi (PhD Candidate, The University of Melbourne)

**Indoor Emergency Response Facilitation with 3D Indoor/Outdoor Spatial Models**

Ms. Hosna Tashakori (PhD Candidate, The University of Melbourne)

**Supporting Disaster Management in Smart Cities Utilizing Internet of Things (IoT)**

Mr. Farzad Alamdar (PhD Candidate, The University of Melbourne)

**BIM For Urban Land Administration**

Mr. Behnam Atazadeh (PhD Candidate, The University of Melbourne)

1.45pm – 3:15pm

3:15pm – 3:45pm

Afternoon Tea

## PARALLEL SESSION 3

A1 Theatre, Old Engineering

**Theme 5: 3D Technological Advances and Future Cities**  
Chair: Dr. Hamed Olfat

**Prefabricated Housing And Smart Future Cities**

Prof. Priyan Mendis and Assoc. Prof. Tuan Duc Ngo (ARC Centre for Prefabricated Housing (ARC CAMPH), The University of Melbourne)

**Pivotal Principles For Healthy And Vibrant Cities: Spatial Meets BIMS**

Dr. Cheryl Desha (Senior Lecturer in Sustainable Development, Queensland University of Technology)

**3D Land And Property Information: Indoor Modelling and Mapping**

Dr. Mohsen Kalantari (CSDILA, The University of Melbourne)

**3D QLD: Secure Federated 3D Digital Model Of The Natural And Built Environment, Including All RRR Boundaries**

Mr. Michael Haines (CEO, VANZI Ltd)

**BIM-GIS Integration for Urban Resilience**

Dr. Sam Amirebrahimi (CSDILA, The University of Melbourne)

Brown Theatre, Electrical Engineering

**Theme 6: Information Technology and Urban Management**  
Chair: Mr. Ged Griffin

**The Australian Urban Informatics Platform: Past, Present And Future**

Prof. Richard Sinnott (Director, eResearch, Professor of Applied Computing Systems, The University of Melbourne)

**A Smart Platform To Deliver Public Services – Tehran Municipality**

Mr. Aliasghar Ghaemi (Director, IT Department of Tehran Municipality, Iran)

**Urban Analytics Data Infrastructure and Smart Cities Planning**

Dr. Soheil Sabri (Research Fellow, Department of Infrastructure Engineering, The University of Melbourne)

**Taking Advantage Of The Benefits And Value Of Geospatial Standards For Smart Cities**

Mr. Chris Body (Chair of Standards Australia's Geographic Information/Geomatics Committee and Co-Chair of OGC's Australian/New Zealand Forum)

**A Smart Platform To Deliver Public Services – Isfahan Municipality**

Mr. Vahid Heidarian (Director, IT Department of Isfahan Municipality, Iran)

3:45pm – 5:15pm

5:15pm

Close of Day 1



# International Symposium on SMART FUTURE CITIES

THE ROLE OF SPATIAL DATA AND URBAN ANALYTICS

27-28 September 2016



**CSDILA**  
THE CENTRE FOR SPATIAL  
DATA INFRASTRUCTURES  
& LAND ADMINISTRATION



MELBOURNE  
SCHOOL OF  
ENGINEERING

## SYMPOSIUM DAY 2: SMART FUTURE CITIES

### PROGRAM DAY: Wednesday 28<sup>th</sup> September 2016

Venue: Old Engineering Building, Building 173, The University of Melbourne

TIME	DETAILS	
8:30am – 9:00am	Arrival and Registration	
<b>KEYNOTE SESSION 2</b> Chair: Mr. Paul Harcombe		
9:00am – 10:45am	<b>Urban Transport And Public Health</b> Prof. Mark Stevenson (Melbourne School of Design, The University of Melbourne)	
	<b>Smart Cities Initiatives In Urban Design And Planning – Case Of Iran</b> The Hon. Dr. Pirouz Hanachi (Vice Minister – Urban Planning and Architecture, Ministry of Roads and Urban Development, Iran)	
	<b>IP And Legal Aspects</b> Ms. Jude Wallace (Consultant in Land Policy, Land Markets and Land Administration; Visiting Academic, Department of Infrastructure Engineering, The University of Melbourne)	
	<b>Visualising a Changing City</b> Prof. Chris Pettit (Professor of Urban Science, Associate Director, City Futures Research Centre, Built Environment, University of New South Wales)	
	<b>Ever Smarter, Cities That Learn: The Application of Complex Adaptive Systems Theory to Urban Development</b> Assoc. Prof. Justyna Karakiewicz (Melbourne School of Design, The University of Melbourne)	
10:45am – 11:15am	Morning Tea	
<b>PARALLEL SESSION 4</b>		
11:15am – 12:15pm	<b>A1 Theatre, Old Engineering</b> <b>Theme 7: Urban Transportation Planning and Technologies</b> Chair: Prof. Mark Stevenson	<b>Brown Theatre, Electrical Engineering</b> <b>Theme 8: Multi-Disciplinary Urban Analytics</b> Chair: Dr. Mohsen Kalantari
	<b>Roads and Transport Technologies Towards Smart Cities</b> Prof. Arun Kumar (Principal Fellow at The University of Melbourne and Emeritus Professor at RMIT University)	<b>Fusion of Crowd-Sourcing and Smart Sensing For A Safer and Smarter Jakarta</b> Prof. Pascal Perez (Director, SMART Infrastructure Facility, University of Wollongong)
	<b>Transport Technologies and IoT Towards Smart Cities</b> Assoc. Prof. Russell Thompson (Department of Infrastructure Engineering, The University of Melbourne)	<b>The Role Of G-NAF And Addressing</b> Mr. Brian Marwick (PSMA Australia and Senior Advisor to CSDILA, The University of Melbourne)
	<b>Indoor Mapping, Routing, And Positioning</b> Dr. Ali Aien (Head of Enterprise Engineering Team Asia Pacific, HERE)	<b>Modelling And Analysis Of Water In Intensified Urban Development</b> Dr. Meenakshi Arora (Senior Lecturer, Department of Infrastructure Engineering, The University of Melbourne)
	<b>Smart Cities And Collaborative Intelligent Transport Systems</b> Mr. Ged Griffin (Visiting Fellow at Australian Institute of Police Management)	<b>Return to Theatre A1 for Closing Remarks</b>
	<b>Closing Remarks: The Future Roads For Research And Development Agenda</b> (Theatre A1) Prof. Abbas Rajabifard (Symposium Chair)	
12:30pm – 3:30pm	<b>Lunch and Award Presentations</b> Venue: Melbourne Graduate House	

Venue Map:



# International Symposium on SMART FUTURE CITIES

## THE ROLE OF SPATIAL DATA AND URBAN ANALYTICS

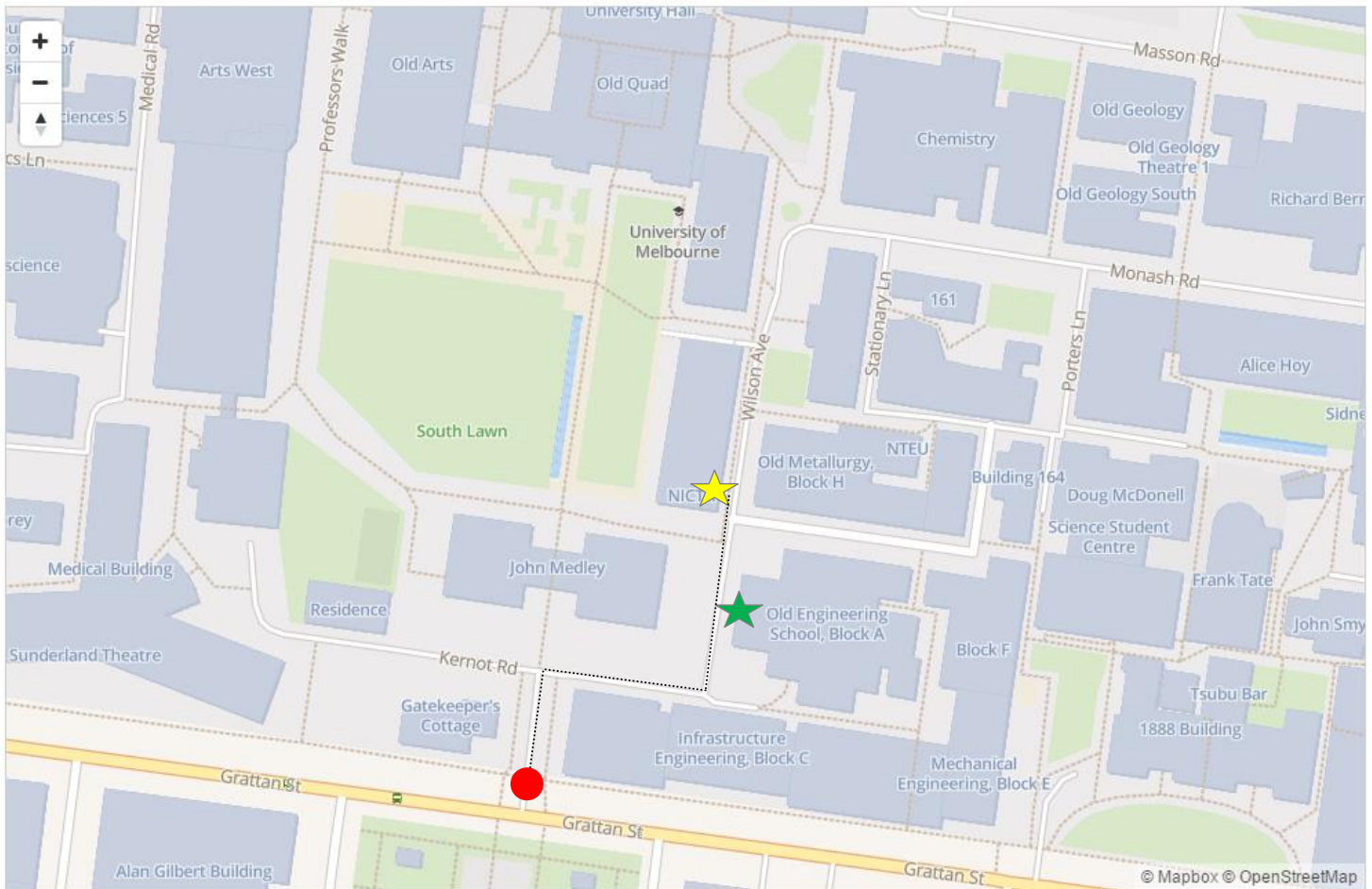
27-28 September 2016



**CSDILA**  
THE CENTRE FOR SPATIAL  
DATA INFRASTRUCTURES  
& LAND ADMINISTRATION



MELBOURNE  
SCHOOL OF  
ENGINEERING



● Enter the University Campus via Gate 10 (Grattan Street).

★ **A1 Theatre, Old Engineering Building, Building 173, The University of Melbourne.**

Located inside [Engineering Block A](#). To access this room, please enter building from front door on Wilson Avenue. Take stairs or lift to the first floor. Theatre A1 is room 107.

★ **Brown Theatre, Electrical and Electronic Engineering Building, Building 193, The University of Melbourne.**

Located inside [Electrical and Electronic Engineering Building](#). To access this room, please enter from Wilson Avenue (steps and ramp). Follow corridor around and to left, through glass doors then turn right. Theatre is room 106, first room on left.

