



Opening of the 4th International FIG 3D Cadastre Workshop

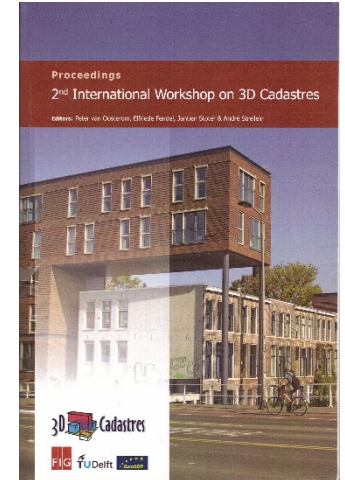
11-11-2014

Peter van Oosterom

9-11 November 2014, Dubai, UAE

in cooperation with the 3D GeoInfo Conference, 11-13 November 2014

Past results FIG 3D Cadastres working group 2010-2014



- 2010: creation of web-site and interest-group www.gdmc.nl/3DCadastres
- 2010: initial questionnaire status 3D Cadastres
- 2011: 2nd workshop on 3D-Cadastres, Delft, The Netherlands
- 2011-13: 3D Cadastres session at FIG working weeks
- 2012: 3rd workshop on 3D-Cadastres, Shenzhen, China
- 2012: ISO 19152 LADM published as standard (incl. 3D)
- 2013 : CEUS special issue 3D Cadastres
- 2014: presentations at the FIG-congress



Home Committees Programme Important Dates Submission Registration Venue Contact 中文



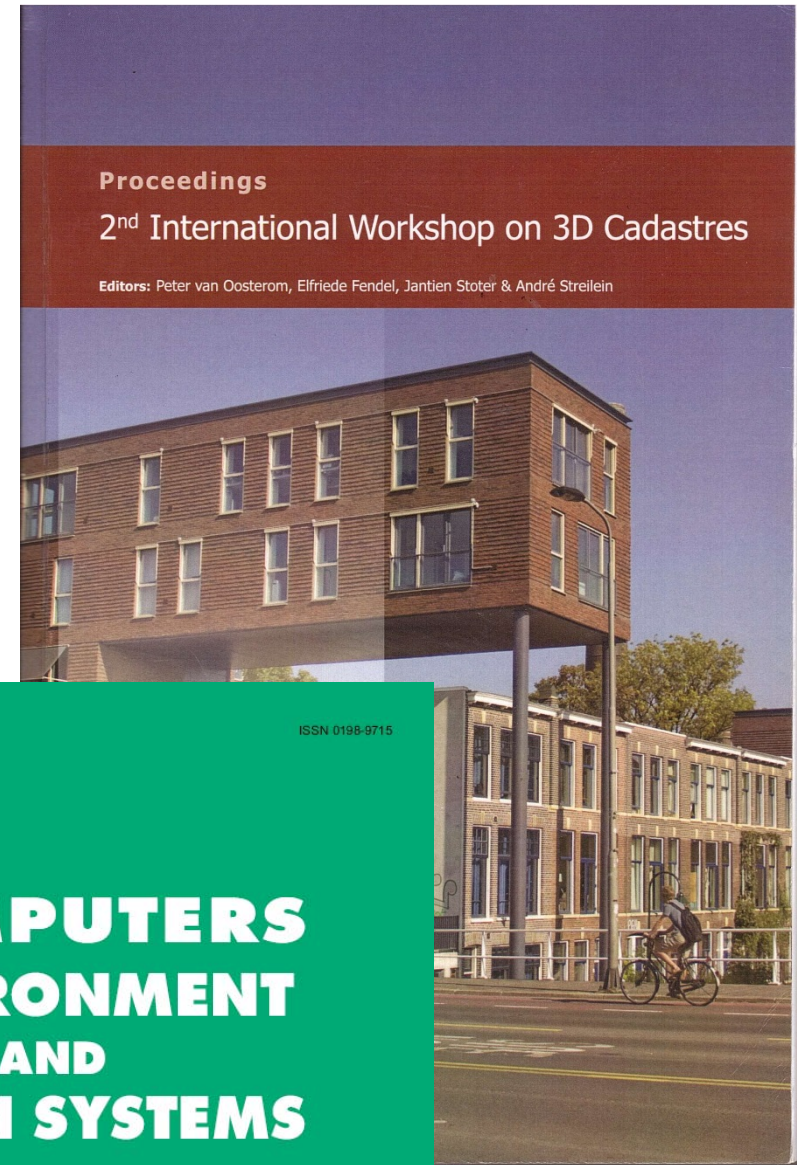
Draft Programme

Wednesday 24 Oct. 2012 Registration

Thursday 25 Oct. 2012

8:30-8:40	Welcome and opening
8:40-10:20	Legal Aspects
8:40-9:05	Designing a Title Certificate for the Chinese 3D Cadastre Changbin Yu, Lin Li, Shen Ying, Biao He, Zhigang Zhao, and Yuan Wan
9:05-9:30	Swedish 3D Property in an International Comparison Jenny Paulsson
9:30-9:55	Legal Aspects of 3D Property Rights, Restrictions and Responsibilities in Greece and Cyprus Efi Dimopoulou and Elikkos Elia

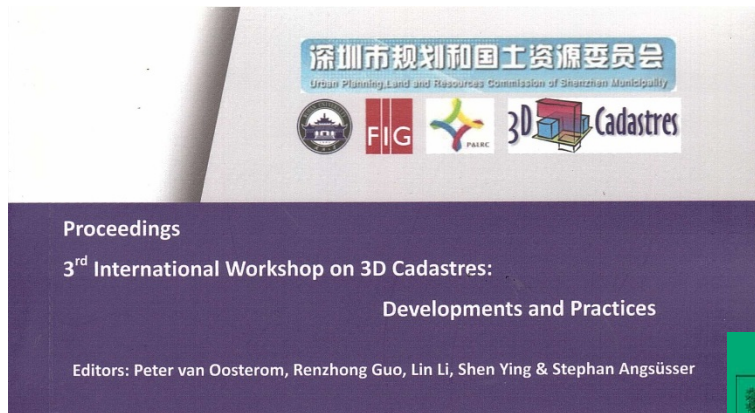
CEUS special issue & Proceedings



Proceedings

2nd International Workshop on 3D Cadastres

Editors: Peter van Oosterom, Elfriede Fendel, Jantien Stoter & André Streilein

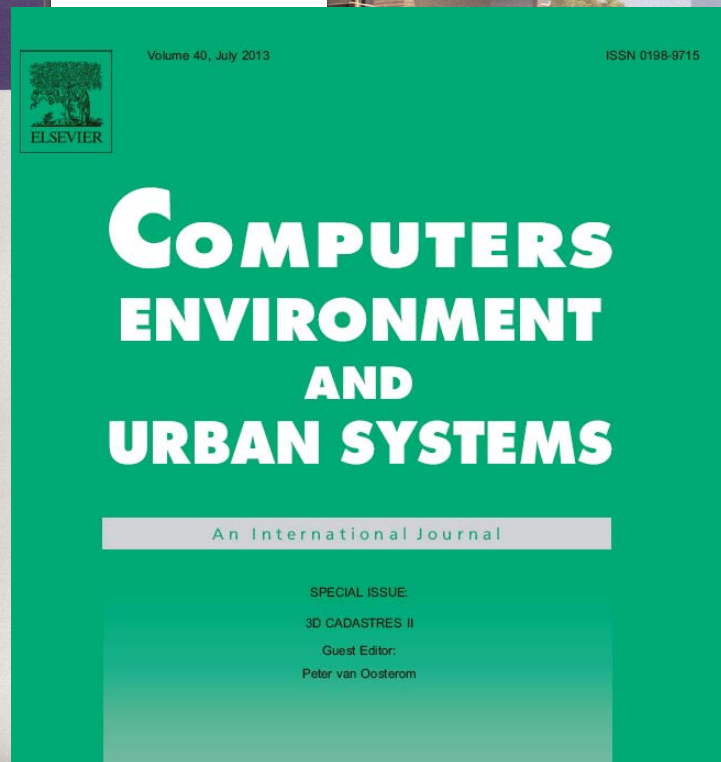


Proceedings

3rd International Workshop on 3D Cadastres:

Developments and Practices

Editors: Peter van Oosterom, Renzhong Guo, Lin Li, Shen Ying & Stephan Angsüsser



Volume 40, July 2013

ISSN 0198-9715

**COMPUTERS
ENVIRONMENT
AND
URBAN SYSTEMS**

An International Journal

SPECIAL ISSUE:
3D CADASTRES II
Guest Editor:
Peter van Oosterom

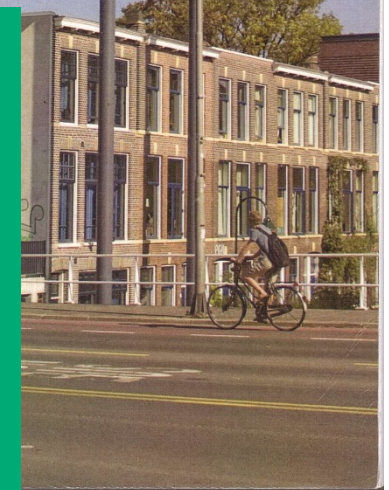




FIG joint commission 3 and 7 Working Group on 3D Cadastres

- Home
- Objectives
- Topics
- Scope
- Realization
- Deliverables
- Operation
- Timetable
- Participants
- Organization
- Literature

- Workshop 2014
- Workshop 2012
- Workshop 2011
- Workshop 2001

Literature

This page lists a number of (important) publications and other documents related to 3D Cadastres. Click on the title to download or view (the link to) the corresponding PDF file.

2014 2013 2012 2011 2010 2009 2008 2007 2006 2005 2004 2003 2002 2001

2014

[XXV International FIG Congress, 2014, Kuala Lumpur, Technical Programme](#)

3D Cadastre: sessions TS09D and TS11C, Friday 20 June

Nur Amalina Zulkifli, Alias Abdul Rahman, Hasan Jamil, Teng Chee Hua, Tan Liat Choon, Looi Kam Seng, Chan Keat Lim and Peter van Oosterom

[Towards Malaysian LADM Country Profile for 2D and 3D Cadastral Registration System](#)

XXV International FIG Congress, 2014, Kuala Lumpur, 19 p.

Abbas Rajabifard, Ian Williamson, Brian Marwick, Mohsen Kalantari, Serene Ho, Davood Shojaei, Behnam Atazadeh, Sam Amirebrahimi and Alireza Jamshidi

[3D-Cadastre, a Multifaceted Challenge](#)

XXV International FIG Congress, 2014, Kuala Lumpur, 17 p.

Victor Khoo, Eric Low and Zhen Hao Ng

[3D Laser Scanning to Detect Property Encroachment](#)

XXV International FIG Congress, 2014, Kuala Lumpur, 13 p.

Hiroaki Hasegawa and Tsutomu Imago

New term 2014-2018

FIG 3D Cadastres Working Group

- 3D Cadastre is here to stay and #implementations increase
- ISO 19152, LADM conformance
- In 3D even more need to connect to other registrations via SDI: buildings, tunnels, cables/pipelines, terrain elevation, etc. (physical and legal 3D objects should be aligned)
- New topics: Experiences of operating; Mega-cities; Usability studies, web-dissemination and 3D cartography; 3D Cadastre as part full life cycle in 3D

Intention often more than 3D Cadastre ...full life cycle in 3D

Involved steps (order differs per country):

1. Develop and register zoning plans in 3D
2. Register (public law) restrictions in 3D
3. Design new spatial units/objects in 3D
4. Acquire appropriate land/space in 3D
5. Request and provide (after check) permits in 3D
6. Obtain and register financing (mortgage) for future objects in 3D
7. Survey and measure spatial units/objects (after construction) in 3D
8. Submit associated rights (RR)/parties and their spatial units in 3D
9. Validate and check submitted data (and register if accepted) in 3D
10. Store and analyze the spatial units in 3D
11. Disseminate, visualize and use the spatial units in 3D

Session 1

Day 1 - Sunday 9 November 2014

08:00	Registration
09:00	Welcome on behalf of the American University in Dubai, School of Engineering - <i>Provost / Dean</i> [Room C227]
09:05	Opening and Session 1: 3D Life Cycle, Building Modelling - <i>Peter van Oosterom</i> [Room C227]
	Keynote I: 3D Cadastres and Beyond <i>Abbas Rajabifard</i>
	Integration of 3D Cadastre, 3D Property Formation and BIM in Sweden <i>Mohamed El-Mekawy, Jesper Paasch and Jenny Paulsson</i>
	Semantically Rich 3D Building and Cadastral Models for Valuation <i>Umit Isikdag, Mike Horhammer, Sisi Zlatanova, Ruud Kathmann and Peter van Oosterom</i>
10:55	Coffee break
11:15	Session 2: Organizational Aspects - <i>Miodrag Roic</i> [Room C227]

Parallel working sessions

12:45	Lunch break			
14:00	Parallel Working Sessions I			
	Position Paper 1: Legal Framework 3D Cadastres ; <i>Jesper Paasch and Jenny Paulsson</i>			
	Position Paper 2: Initial Registration of 3D Parcels ; <i>Sudarshan Karki and Rod Thompson</i>			
	Position Paper 3: 3D Data Management ; <i>Helena Åström Boss and André Streilein</i>			
	Position Paper 4: Visualization, Distribution and Delivery of 3D Parcels ; <i>Jacynthe Pouliot and Chen Wang</i>			
	1. Legal Framework 3D Cadastres Chair: <i>Jesper Paasch</i> [Room E304]	2. Initial Registration of 3D Parcels Chair: <i>Sudarshan Karki</i> [Room E323]	3. 3D Data Management Chair: <i>Helena Åström Boss</i> [Room E301]	4. Visualization, Distribution and Delivery of 3D Parcels Chair: <i>Jacynthe Pouliot</i> [Room E310]
15:30	Coffee break			
16:00	Session 3: 3D Data Sources I - <i>Claire Ellul</i> [Room C227]			

Keynote I: 3D Cadastres and Beyond

Abbas Rajabifard



- Head of Department of Infrastructure Engineering
Director Centre for SDIs and Land Administration
University of Melbourne
- Led the 'Land and Property Information in 3D Project',
Australian Research Council (ARC) linkage programme to industry
- Immediate Past-President of Global SDI (GSDI) Association
and is an Executive Board member of this Association
- Abbas was Vice Chair, Spatially Enabled Government WG of the
UN Global Geospatial Information Management for Asia-Pacific