



5th International FIG Workshop on 3D Cadastres 18-20 October 2016, Athens, Greece

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Technical Programme and Proceedings

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Tuesday 18 October 2016

13:15 - 13:30	Official Opening / Welcome - <i>Efi Dimopoulou, Peter van Oosterom</i> [presentation]
13:30 - 15:00	Session 1: Legal Aspects - <i>Peter van Oosterom</i>
	<i>Dimitrios Kitsakis, Jesper Paasch, Jenny Paulsson, Gerhard Navratil, Nikola Vucic, Marcin Karabin, Andréa Flávia Tenório Carneiro and Mohamed El-Mekawy</i> [presentation] 3D Real Property Legal Concepts and Cadastre: A Comparative Study of Selected Countries to Propose a Way Forward (Overview Report)
	<i>Dimitrios Kitsakis and Efi Dimopoulou</i> [presentation] Possibilities of Integrating Public Law Restrictions to 3D Cadastres
	<i>Jacynthe Pouliot and Philippe Girard</i> [presentation] 3D Cadastre: With or Without Subsurface Utility Network?
	<i>Nikola Vucic, Miodrag Roic, Mario Mader and Sasa Vranic</i> [presentation] Overview of Legal and Institutional Aspects of Croatian Cadastre and Possibilities for its Upgrading to 3D
	<i>Katerina Athanasiou, Efi Dimopoulou, Christos Kastrisios and Lysandros Tsoulos</i> [presentation] Management of Marine Rights, Restrictions and Responsibilities according to International Standards
15:30 - 17:30	Session 2: Initial Registrations - <i>Jacynthe Pouliot</i>
	<i>Efi Dimopoulou, Sudarshan Karki, Roic Miodrag, José-Paulo Duarte de Almeida, Charisse Griffith-Charles, Rod Thompson, Shen Ying and Peter van Oosterom</i> [presentation] Initial Registration of 3D Parcels (Overview Report)
	<i>Rodney James Thompson, Peter van Oosterom and Kean Huat Soon</i> [presentation] Mixed 2D and 3D Survey Plans with Topological Encoding
	<i>José-Paul Duarte de Almeida, Claire Ellul, Ricardo Romano and Cidália Fonte</i> [presentation] The role of Volunteered Geographic Information towards 3D Property Cadastral Systems (2): A Purpose Driven Web Application
	<i>Mila Koeva and Sander Oude Elberink</i> [presentation] Challenges for Updating 3D Cadastral Objects using LiDAR and Image-based Point Clouds
	<i>Behnam Atazadeh, Mohsen Kalantari and Abbas Rajabifard</i> [presentation] Comparing Three Types of BIM-based Models for Managing 3D Ownership Interests in Multi-level Buildings
	<i>Jennifer Oldfield, Peter van Oosterom, Wilko Quak, Jeroen van der Veen and Jakob Beetz</i> [presentation] Can Data from BIMs be Used as Input for a 3D Cadastre?

Wednesday 19 October 2016

9:00 - 10:30	Session 3: Data Management and Modelling - <i>Rod Thompson</i>
	<i>Karel Janecka and Sudarshan Karki</i> [presentation] 3D Data Management (Overview Report)

	Eftychia Kalogianni, Efi Dimopoulou, Wilko Quak and Peter van Oosterom [presentation] Formalizing Implementable Constraints in the INTERLIS Language for Modelling Legal 3D RRR Spaces and 3D Physical Objects
	Karel Janecka and Petr Soucek [presentation] Country Profile for the Cadastre of the Czech Republic based on LADM
	Michael Sutherland, Charisse Griffith-Charles and Dexter Davis [presentation] Toward the Development of LADM-based Marine Cadastres: Is LADM Applicable to Marine Cadastres?
	Sisi Zlatanova, Ki-Joune Li, Christiaan Lemmen and Peter van Oosterom [presentation] Indoor Abstract Spaces: Linking IndoorGML and LADM
11:00 - 12:30	Session 4: The Hellenic National Cadastre and 3D Geoinformation - Efi Dimopoulou
	Byron Nakos [presentation] The Hellenic National Cadastre: An Elemental Institution for Nurturing and Promoting Innovation in 3D Geospatial Data
	Evangelos Dimas [presentation] 3D Cadastral Objects of the Hellenic National Cadastre
	George Mourafetis [presentation] Innovative Web-based Services and Applications in the Hellenic National Cadastre
	Panos Lolonis [presentation] On the Nature and Relationships of 3D Spatial Cadastral Objects
13:30 - 15:30	Session 5: Country Approaches - Jesper Paasch
	Kean Huat Soon, Derick Tan and Victor Khoo [presentation] Initial Design to Develop a Cadastral System that Supports Digital Cadastre, 3D and Provenance for Singapore
	Charisse Griffith-Charles, Michael Sutherland and Dexter Davis [presentation] Capturing Legal and Physical Boundary Differences in 3D Space - A Case Study of Trinidad and Tobago
	Ruba Jaljolie, Peter van Oosterom and Sagi Dalyot [presentation] Systematic Analysis of Functionalities for the Israeli 3D Cadastre
	Trent Gulliver, Anselm Haanen and Mark Goodin [presentation] A 3D Digital Cadastre for New Zealand by 2021: Leveraging the Current System and Modern Technology
	Jantien Stoter, Hendrik Ploeger, Ruben Roes, Els van der Riet, Filip Biljecki and Hugo Ledoux [presentation] First 3D Cadastral Registration of Multi-level Ownerships Rights in the Netherlands
	Jaroslav Bydlosz Developing the Polish Cadastral Model towards a 3D Cadastre
16:00 - 17:30	Session 6: Visualization - Karel Janecka
	Jacynthe Pouliot, Frédéric Hubert, Chen Wang, Claire Ellul and Abbas Rajabifard [presentation] 3D Cadastre Visualization: Recent Progress and Future Directions (Overview Report)
	Shen Ying, RenZhong Guo, WeiYang Li, Jie Yang, ZhiGang Zhao and Lin Li Visualization for the Coherent Set of 3D Property Units
	Nikola Vucic, Peter van Oosterom and Danko Markovinovic [presentation] Topographic Signs - Important Context for a 3D Cadastre
	Mohamed Akram Seddiki Case study on the 3D Cadastre in Algeria: First Application of the FIG Recommendations
	Adolfo Lino de Araújo and Francisco Henrique de Oliveira Overlapping Characterization of Spatial Parcels in Brazil: Case in Florianopolis
Thursday 20 October 2016	
9:30 - 12:30	Sessions 7 / 8: Joint sessions with 3D GeoInfo (plenary presentations, lectures) <i>Efi Dimopoulou, Peter van Oosterom</i>
	Chryssy Potsiou (FIG president) Speech at joint session 3D Cadastres / 3D GeoInfo
	Thomas H. Kolbe Making 3D City Models Dynamic
	Peter van Oosterom nD-PointClouds: a model for deeply integrating space, time and scale
	Bart De Lathouwer The 3D Standards evolution: Piloting for Smart Cities and the Build Environment (GEOBIM)
12:30 - 13:00	Official Closing 3D Cadastres Workshop - Peter van Oosterom [presentation]