The 8th Land Administration Domain Model Workshop

Welcome to the homepage of the LADM 2019 workshop, Kuala Lumpur, Malaysia, 1-3 October 2019

A joint event with LADM’s 4th International Conference on Smart Data and Smart Cities (SDSC2019) and Geomatics Geospatial Technology (GST2019) as part of Geospatial World 2019, Hotel Istana.

Technical Programme and Proceedings

ISSN 2311-4323

0. Title page and other front matter of the Proceedings

Final programme 1 October 2019:

9:00-17:00 Tutorial Advanced 3D Modelling and Big Geo Data

Final programme 2 October 2019:

9:00-10:00 Technical Session I: Foundations/Fundamentals (chair: Chris Body)
- C1 Erik Stolshouer, Rosa Christoforidis, Scott Simmons and Volkert Dobig: Code list management supported through a controlled domain vocabulary PaperC1
- A2 Rolf Thompson and Peter van Oostrom: A Suggested Terminology for Point-like Entities in a B-Temporal Planning Perspective PaperA2

10:30-12:30 Opening session: plenary with GGT, SDSC, LADM: opening and keynotes 1-3

14:15-15:15 Plenary session with GGT, SDSC, LADM: keynotes 4 and invited talk 1

15:10-16:00 Technical Session II: 3D BIM (chair: Sisi Zlatanova)
- A2 Shen Ying, Tian Li, Chengpeng Li, Renhong Guo and Lin Li: Easement spatialization with two cases based on BIM PaperA2
- A3 Abbas Rajabifard, Behnam Azadkhah, Xi Meng Yi, Mohsen Kalantari, Mohsen Rahimpour, Hamid Olf, Farshad Badiee, Davood Sheikh, Chen Key Lim and Mohd Azwan Mohd Jam: Design and implementation of a 3D National Digital Cadastre Database based on Land Administration Domain Model: Lessons Learned from a 3D Cadastre Project in Malaysia PaperA3

16:30-17:15 Technical Session IIIa: Country Profiles/Implementations I (chair: Jacynthe Pouliot)
- A2 Daniel Casalpin and Dagd Alvarez: The Role of the LADM in the Transactional Phase of Land Administration – Colombia PaperA2
- C3 Agung Indrati, Vimi Eristi Jaya, Bayu Wano L闹en, Anna Shredailman, Hendrik Peeger and Peter van Oostrom: Implementation of the Spatial Planning Package for Construction of an LADM Country Profile: Reducing Asymmetric Access to Information of RIRs in Indonesia PaperC3

17:30-18:30 Technical Session IIIb: Modelling/Implementation (chair: Kees de Zeeuw)
- A1 Jacynthe Pouliot, Claire Monney, Jens Ingenhaes and Suara Lamier: How to quickly detect the overlap and the consistency between LADM with LandXML and LandMXML: Application of schema matching techniques PaperA1
- A2 Christian Lemmen, Eva Maria Unger, Marcin Legezent, Manca Babic, Christoforidis, Roland Bennett, Peter van Oostrom, Jaap Zwaenepoel and Matthias Vraeckt: Exploiting and Assessing SDTM and LADM for geographically enabling land administration PaperA2
- C1 Eva Maria Unger, Roland Bennett, Christian Lemmen, Jaap Zwaenepoel, Paula Diukuts and Kees de Zeeuw: LADM based models for sustainable development LO-DRA for disaster prone areas and communities (an example for SDG 1 and SDG 13) PaperC1
- A3 Peter Oostra, Christian Lemmen and Erwin Fulmer: An Approach to Interoperability Between LADM Profiled Implementations PaperA3

Final programme 3 October 2019:

9:00-10:00 Technical Session IV: Country Profiles/Implementations II (chair: Shen Ying)
- A1 Eftychia Kalogianni, Mohsen Kalantari, Dilip Doppula and Peter van Oostrom: LADM country profiles development: aspects to be reflected and considered PaperA1
- C1 Nur Amalina Zulkifli, Alias Abdul Rahman and Chengxi Bernad Siew: Database Design and Development of 3D Cadastre Registration based on LADM PaperC1
- A2 Abdullah Alatat, Peter van Oostrom and Eriko Zlatanova: Initial Country Profile of the Kingdom of Saudi Arabia based on LADM PaperA2

10:30-12:30 Plenary session with GGT, SDSC, LADM: keynotes 5-7 and invited talk 2

14:15-15:15 Technical Session V: Industry/Modelling (chair: Rod Thompson)
- A1 Katherine Smyth: The Role of LADM in Contiguous Geographic Information Systems PaperA1
- A2 Aurelia Miledescoules, Igor Popov, Makayya Kalyva and Carol Rolfer: Uganda and Tanzania Land Administration Modernization Based on IT-Leap Concept PaperA2
- LADM2019 Wap-in and roof tours within FIG, ISO TC211 and SDG

16:00-17:00 Closing session: plenary with GGT, SDSC, LADM: panel discussion, awards and closing

Background LADM2019

The focus of LADM2019 workshop will be on preparing input for second Edition (first Edition published as ISO 19152:2012). After the initial brainstorming on the second Edition of LADM at the 6th workshop (WorkshopAgenda2017) and further scoping at the 7th workshop (WAG2019Workshop) the result was submitted by FIG to ISO TC211 as a new work item proposal (NWIP) for the second Edition. It is now time to provide proposals for the new LADM parts.

Based on current experiences and future expectations, the need and content of possible extensions will be addressed. eg. further modelling of LADM’s rights, restrictions and responsibilities; a fiscal/valuation extension module; Marine Cadastre, more explicit relations with Building Information Modelling, further modelling of LADM’s survey and spatial representation and 3D/4D Cadastre. In addition, more and more attention will be paid to the Operational Standards in Land Administration. This includes addressing the technical models for LADM: INTERLIS, RDP, CityGML, IndoorGML, LandXML, LandMXML, and GeoBIM. Finally, also the aspectS beyond Information models will be discussed.
LandXML and GeoBIM. Finally, also the aspects beyond Information models will be discussed: Organization, Best practices, Legal/financial aspects, OpenCadastre approach, Crowd sourcing, Workflow modelling, Blockchain and ledger technologies.

**Submission procedure**

All submissions (extended abstracts of 500-1000 words) will be peer reviewed and all accepted contributions are expected to submit a full paper, which will be included in both the on-line and printed proceedings (available at the workshops), published by the FIG with ISBN/ISSN reference. All papers must be submitted via the [EasyChair](https://easychair.org) online system.

**Important dates**

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<td>Extended abstract submission</td>
<td>25 May 2019</td>
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<tr>
<td>Acceptance notification</td>
<td>15 June 2019</td>
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<tr>
<td>Camera-ready full paper</td>
<td>22 August 2019 (at least one author must be registered)</td>
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<tr>
<td>Workshop</td>
<td>1-3 October 2019</td>
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**Registration and accommodation**

See website of Geospatial Kuala Lumpur 2019.

**Previous workshops**

1. March 2002, Enschede, the Netherlands
3. November 2005, Quebec City, Canada ([http://www.isotc211.org/WorkshopQuebec/CARB_Workshop_Quebec.pdf](http://www.isotc211.org/WorkshopQuebec/CARB_Workshop_Quebec.pdf))
4. July 2012, Rotterdam, the Netherlands ([WorkshopLADMPresentations](http://www.isotc211.org/WorkshopLADMPresentations))
5. September 2013, Kuala Lumpur, Malaysia ([FinalProgramme](http://www.isotc211.org/WorkshopLADMPresentations/papers and presentations))
6. March 2017, Delft, the Netherlands ([WorkshopAgenda2017](http://www.isotc211.org/WorkshopLADMPresentations/papers and presentations))
7. April 2018, Zagreb, Croatia ([LADM2018Workshop](http://www.isotc211.org/WorkshopLADMPresentations/papers and presentations))

Organized in collaboration with
The 8th Land Administration Domain Model Workshop (LADM2019)
1-3 October 2019 Kuala Lumpur, Malaysia

Scope

The focus of LADM2019 workshop will be on preparing input for second Edition of the Land Administration Domain Model (First Edition published as ISO 19152:2012). It is now time to provide proposals for the new LADM parts. Based on current experiences and future expectations, the need and content of possible extensions will be addressed; eg. further modelling of LADM's rights, restrictions and responsibilities, a valuation information package, a spatial planning information package, Marine Cadastre, more explicit relations with Building Information Modelling, further modelling of LADM's survey and spatial representation and 3D/4D Cadastre. In addition, more and more attention will be paid to the Operational Standards in Land Administration. This includes addressing the technical models for LADM: INTERLIS, RDF, CityGML, indoorGML, LandInfra, InfraGML, LandXML, and BIM/IFC. Finally, also the aspects beyond information models will be discussed: Organization, Best practices, Legal/financial aspects, OpenCadastre approach, Crowd sourcing, Workflow modelling, Blockchain and ledger technologies.

Submission and selection

All submissions (extended abstracts of 500-1000 words) will be peer reviewed and all accepted contributions are expected to submit a full paper, which will be included in both the on-line and printed proceedings (available at the workshop), published by the FIG with ISBN/ISSN reference. All papers must be submitted via the EasyChair online system before 1 May 2019.

Organization

LADM2019 is organized by FIG, OGC en ISO TC211. LADM2019 is a joint event with UDMS's 4th International Conference on Smart Data and Smart Cities (SDSC2019) and Geomatics Geospatial Technology (GGT2019) as part of Geospatial Kuala Lumpur 2019.

More information

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