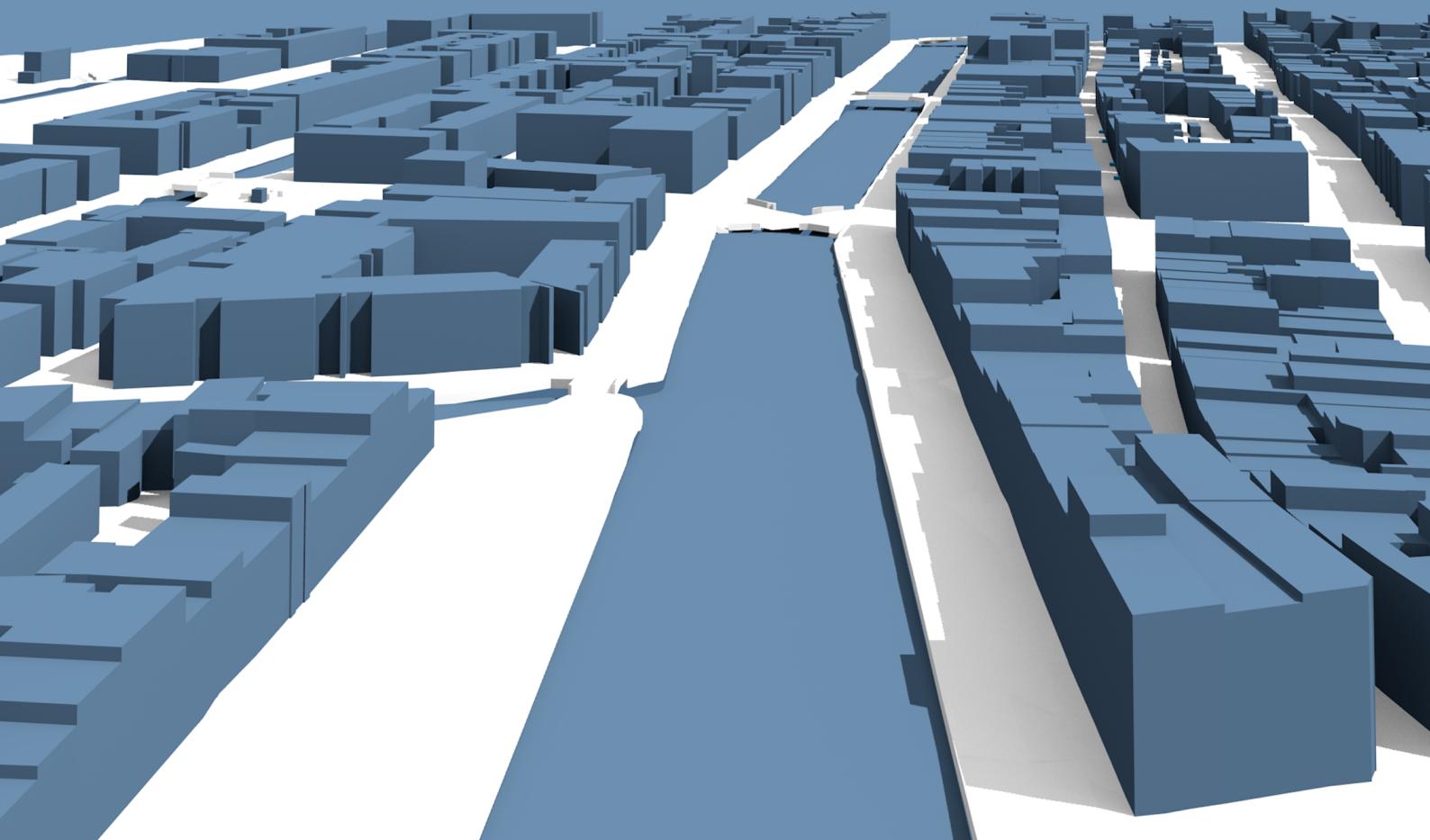


UDMV 2015

3rd Eurographics Workshop on
Urban Data Modelling and Visualisation
23 November 2015 · Delft, the Netherlands



Call for papers

The objective of this workshop is to discuss the modelling and visualisation of the city at various temporal and spatial scales, and aims at sharing associated techniques, methods, uses and points of view.

Managing and understanding urban data are major issues as there are represented by several kind of different data at different scales. Urban data not only embed the geometry of the city model, but also data related to human activities (e.g. social data, transportation, mobility, history), to physical phenomena (e.g. light, wind, heat), and to environment (e.g. geography, climate).

Thus, the processing of urban data is a huge challenge for current computing capabilities, especially considering all the sustainable development parameters related to architectural design, urban planning and urban climate studies; but also considering the specific needs of entertainment, cultural heritage or any domains using urban data. After being organised in Spain in 2013 and in France in 2014 as a co-located event of the Eurographics conference, this third workshop moves on its own to the Netherlands in autumn as a stand-alone event. It is organised at TU Delft on 23 November 2015 by the 3D geoinformation group. Once again, we expect fruitful exchanges by the involvement of the computer graphics and the geoinformatics communities.

Contributions addressing the following topics are welcome:

- Modelling the static and dynamic features of the city (spatio-temporal data)
- Multi-scale geometric data (from building scale to urban scale)
- Multi-scale temporal data (from real time to history time)
- Visualisation of several urban data layers (aggregated indicators)
- Visual analytics using urban data (decision making processes and CAD)

Publications

Expected contributions are research papers, 6 pages in EG publication format, presenting unpublished methods, algorithms and techniques with established results. All accepted papers will be presented orally at the conference by one of the authors, and will be published in the EG Digital Library.

Committees

Organising Committee (TU Delft)

Filip Biljecki — Workshop Chair

Ken Arroyo Ohori

Hugo Ledoux

Liu Liu

Pirouz Nourian

Ravi Peters

Jantien Stoter

Sisi Zlatanova

Programme Committee

Vincent Tourre (France) — Programme Chair

Carlos Andujar (Spain)

Ken Arroyo Ohori (Netherlands)

António Augusto de Sousa (Portugal)

Benoit Beckers (France)

Gonzalo Besuievsky (Spain)

Carles Bosch (Spain)

Arzu Çöltekin (Switzerland)

Ruth Conroy Dalton (UK)

Jürgen Döllner (Germany)

Elmar Eisemann (Netherlands)

Gilles Gesquière (France)

Important dates

July 3, 2015

July 20, 2015

- Paper submission

August 28, 2015

September 4, 2015

- Author notification
- Registration opens

September 23, 2015

September 28, 2015

- Early-bird registration

October 9, 2015

- Camera-ready paper

November 9, 2015

- Registration closes

November 23, 2015

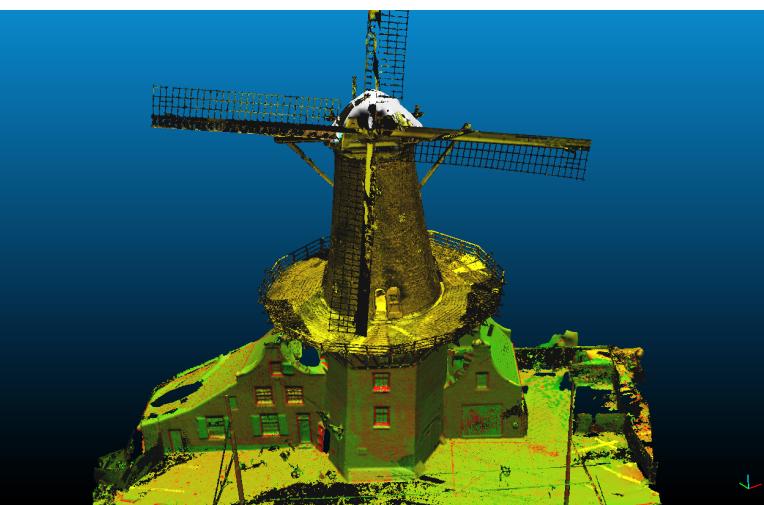
- Workshop

Submission and registration

For paper submission and registration please visit the URL of the event: <https://3d.bk.tudelft.nl/events/udmv2015>

UDMV 2015 Contest

3D Modelling of a Complex Urban Structure



The objective of this contest is to give opportunity to researchers to evaluate and share methods that they have developed for 3D modelling of complex urban structures. A dataset of a recent terrestrial LiDAR acquisition of a historical windmill in Delft (exterior and interior) is shared, and researchers are invited to develop the best use of it, showcasing their work and interest. For instance, an idea would be to generate a full 3D model of the historical windmill using its exterior and interior laser scanning point clouds, or to develop a nice visualisation.

Contributing to the contest is open to researchers with expertise from various disciplines, such as but not limited to computer vision, remote sensing, 3D modelling, and visualisation.

The UDMV 2015 Contest is organised as a part of the 3rd Eurographics Workshop on Urban Data Modelling and Visualisation (UDMV), which will be held in Delft (Netherlands) in November 2015. The contest dataset is provided by TU Delft Library as an open public data set. The participation in this contest is FREE, and it does not entail a participation at the workshop (albeit it is encouraged).

Contributions in following topics are welcome, however, we encourage creativity and do not limit the topics: generating interior/exterior full mesh model of the windmill, registration of points, visualisation, data compression, etc.

Deliverables

- An extended abstract which explains their method and results (2-3 pages). Please note that authorship is limited to 3 people.
- Applicable supplementary material, such as a 3D model and/or video.

Prizes

The first 3 submission with the highest score will be awarded with a diploma. We are currently looking for sponsors to provide prizes such as cash or vouchers.

Dataset and submission

For more information please visit the website of the contest at <https://3d.bk.tudelft.nl/events/udmv2015/contest.html>

Organisers

Beril Sirmacek (b.sirmacek@tudelft.nl) · Department of Geoscience and Remote Sensing, TU Delft

Filip Biljecki (f.biljecki@tudelft.nl) · 3D Geoinformation Research Group, TU Delft

Post-contest publication

The best submissions will be included in a paper describing the contest and the results, and submitted to an international scientific journal. The authors of the included submissions will be included in the paper as co-authors.

Important dates

October 16, 2015: Deadline for submitting extended abstracts and applicable supplementary materials

October 26, 2015: Announcing the contest winners