TU Delft

Delft University of Technology

Opening Data: Recalibrating Architecture with New Narratives

van den Heuvel, D.

Publication date
2022

Document Version
Final published version

Published in
Building Data: Architecture, Memory, and New Imaginaries

Citation (APA)
van den Heuvel, D. (2022). Opening Data: Recalibrating Architecture with New Narratives. In D. van den Heuvel, F. Tanis, & B. van der Meer (Eds.), *Building Data: Architecture, Memory, and New Imaginaries: Proceedings of the 9th Annual Conference of the Jaap Bakema Study Centre* (pp. 7-8). TU Delft and Het Nieuwe Instituut.

Important note
To cite this publication, please use the final published version (if applicable).
Please check the document version above.

Copyright
Other than for strictly personal use, it is not permitted to download, forward or distribute the text or part of it, without the consent of the author(s) and/or copyright holder(s), unless the work is under an open content license such as Creative Commons.

Takedown policy
Please contact us and provide details if you believe this document breaches copyrights.
We will remove access to the work immediately and investigate your claim.

This work is downloaded from Delft University of Technology.
For technical reasons the number of authors shown on this cover page is limited to a maximum of 10.

Jaap Bakema Study Centre

BUILDING DATA: Architecture, Memory, and New Imaginaries

Ninth Annual Conference
November 2022

Building Data: Architecture, Memory, and New Imaginaries

Introduction 7

Subjectivities 11

Programming a Record of Site:
Between Coding and Writing / Real-Time and Orthographic Time 13
Alex Blanchard (Newcastle University)

Archives and Authorship:
A Case Study on the Impact of Digital Architectural Collections 21
Ashley Paine and Kelly Greenop (TU Delft)

The Omega Project:
Developing Architectural Narratives for the Age of Mass Digitalisation 29
Chiara Monterumisi and Ines Tolic (University of Bologna)

Designing Consent:
Emerging Spatialities in Data-driven Work Environments 37
Víctor Muñoz Sanz (TU Delft)

Hybridisation 45

Georeferencing Building Plans:
Revisiting Nolli Maps in the Digital Age 47
Jules Schoonman (Delft University of Technology)

Mambo Dogface to the Banana Patch?
Talking Wrong with Deep Learning 55
Erik Herrmann (The Ohio State University)

Seeing History with Computer Vision:
The Architecture of Text-to-Image Synthesis 61
Matthew Mullane (Radboud University)

Slides, Software, Data, Drawings:
The Frank Gehry Papers as Hybrid Architectural Archive 69
Emily Pugh (Getty Research Institute)

Inclusions 75

Reading between the Lines and the Grammars of Concealment 77
Xenia Vytuleva-Herz (Basel University)

Reconstructing the Speculative History of Boley, Oklahoma
an All-Black Town in the Prairie 83
Jared Macken (Oklahoma State University)

Smart Cities?
Try Harder with Gender-Sensitive Data 91
Nicole Kalms and Timothy Moore (Monash University)

Collective Storytelling of Common Architecture:
Arquitectura Aqui in Portugal and Spain 99
Ricardo Costa Agarez and Diego Inglez de Souza
(University Institute of Lisbon)

Precedents 109

From Structured Spaces to Unstructured Data:
Herman Hertzberger from a Computer Vision Perspective 111
Marija Mateljan (TU Delft)

From Cybernetics to Datacenters:
Searching for Reflexivity in Architecture 119
Berna Göl (Yeditepe University)

How Can a Repository Become a Digital Data Lab?
About the Future of Architectural Research 125
Chris Dähne (Goethe University Frankfurt, TU Darmstadt)
and Roger Winkler (TU Darmstadt)

Appendix 131

Original Call for Papers:
Building Data: 133
Architecture, Memory, and New Imaginaries

Keynote Lecture:
Bouwcentrum Rotterdam Reloaded: 137
From Buildings to Data, and back again
Georg Vrachliotis (TU Delft)

Biographies 139

Programme 151

Paula Strunden, *Alison's Room.* © Johannes Schwartz.

Dirk van den Heuvel (Head of the Jaap Bakema Study Centre)

Opening Data: Recalibrating Architecture with New Narratives

This year's annual conference of the Jaap Bakema Study Centre (JBSC) revisits the broad topic of the digital. This time the focus is on the vast amount of data that are being generated and stored, and how to view this overload in light of new possibilities for architectural design and construction, archival and heritage practices, knowledge curation and dissemination through storytelling.

The questions around digital data and especially open data leave much to explore and discover, specifically at the scale level of the building. Even if urban and media studies have completely embraced the discourse around data, what remains an open question is the impact on architectural design and the building project. The intermediary object between the scale of the user carrying around and interacting with the massively available micro-technologies and the larger territorial scale of interconnected urban spaces, both public and private, has largely been disregarded.

This became also clear from the responses to our call that we sent out. It generated surprising propositions opening up new avenues we had not quite expected, from building analysis to co-creation formats as design tools, diversity and inclusion questions and data curation as historical research. The selected papers are clustered under the headings of Subjectivities, Hybridisation, Inclusions, and Precedents.

Contributors do not address data and its collection as an autonomous field, they all discuss data in relation to contextualisation and alternative operativity, beyond the conventional questions of optimisation. Data are not a given, or a neutral outcome of surveillance, measuring and research, they are always curated. Data need narratives and narrators, to make sense. How to curate data, and by whom exactly and why, thus become crucial questions to assess the potential of data for architectural design, their value and meaning.

Next to the paper sessions, a special 'behind the scenes workshop' is organised together with the collection department of Het Nieuwe Instituut, looking into data research and AI possibilities. Three exhibitions are discussed through curatorial group tours: the third installment of Open Archive 3.0 which brings artistic research to digitised and born-digital archives; the outcome of the research project Vertical Atlas, which maps the planetary relations between the new technological networks; and Alison's Room: An Extended Reality Archive, an XR installation created by

Paula Strunden, which is part of the project Prototypes for a Virtual CIAM Museum as developed by the Jaap Bakema Study Centre. The concluding keynote is by Georg Vrachliotis with a focus on the historical institution of the Bouwcentrum Rotterdam, an early example of data research in building construction which surprisingly resonates with the questions of today.

The conference builds on the 7th edition of the JBSC conference ‘Repositioning Architecture in the Digital’. In 2020, we explored the emergence of the data society in the 1970s, mining the pre-history of the digital in architecture so to speak, and its traces in the built production and the archives. The results are available through the conference proceedings, which are available open access through the webdossiers of Jaap Bakema Study Centre and Het Nieuwe Instituut.

Then and now we teamed up with Georg Vrachliotis who is the newly appointed professor of Theory of Architecture and Digital Culture at our Faculty of Architecture and the Built Environment at the TU Delft. As a kick-off of his tenure, he organised the conference ‘The New Open’ on the urgency of open data in relation to the built environment, and in which the Jaap Bakema Study Centre and Het Nieuwe Instituut also participated. Our current conference ‘Building Data: Architecture, Memory, and New Narratives’ aims to further explore the conversations at these interrelated events, combining historical-theoretical research with questions of architectural design.

The conference would not be possible without the help of many people. It was organised by a working committee. Next to Georg Vrachliotis, it included our colleague Dennis Pohl, who is a postdoctoral researcher with the Theory of Architecture and Digital Culture group at TU Delft, and Fatma Tanış, the coordinator of the Jaap Bakema Study Centre. The Advisory Board and its members Tom Avermaete, Hetty Berens, Maristella Casciato, Carola Hein, and Georg Vrachliotis, helped and supported the committee throughout the reviewing and selection process. In conclusion, I would like to thank everyone for their work, just as I want to express my gratitude to the participants, the authors of the papers included in these proceedings to the two involved institutions, the Faculty of Architecture and the Built Environment of TU Delft, and Het Nieuwe Instituut in Rotterdam, who enable the work of the Jaap Bakema Study Centre.

CONFERENCE

Conference organising committee:
Dirk van den Heuvel (convenor of the conference and head of the Jaap Bakema Study Centre)
Georg Vrachliotis (TU Delft)
Fatma Tanış (coordinator of the Jaap Bakema Study Centre)
Dennis Pohl (TU Delft)

Academic advisory board:
Tom Avermaete (ETH Zurich)
Hetty Berens (Het Nieuwe Instituut)
Maristella Casciato (Getty Research Institute)
Carola Hein (TU Delft)
Georg Vrachliotis (TU Delft)

PROCEEDINGS

Editorial team:
Dirk van den Heuvel
Fatma Tanış
Bing van der Meer

Graphic design:
Ronja Andersen with Bing van der Meer

Published by TU Delft and Het Nieuwe Instituut, Rotterdam, November 2022.

Copyright is with TU Delft, Het Nieuwe Instituut and the individual authors.