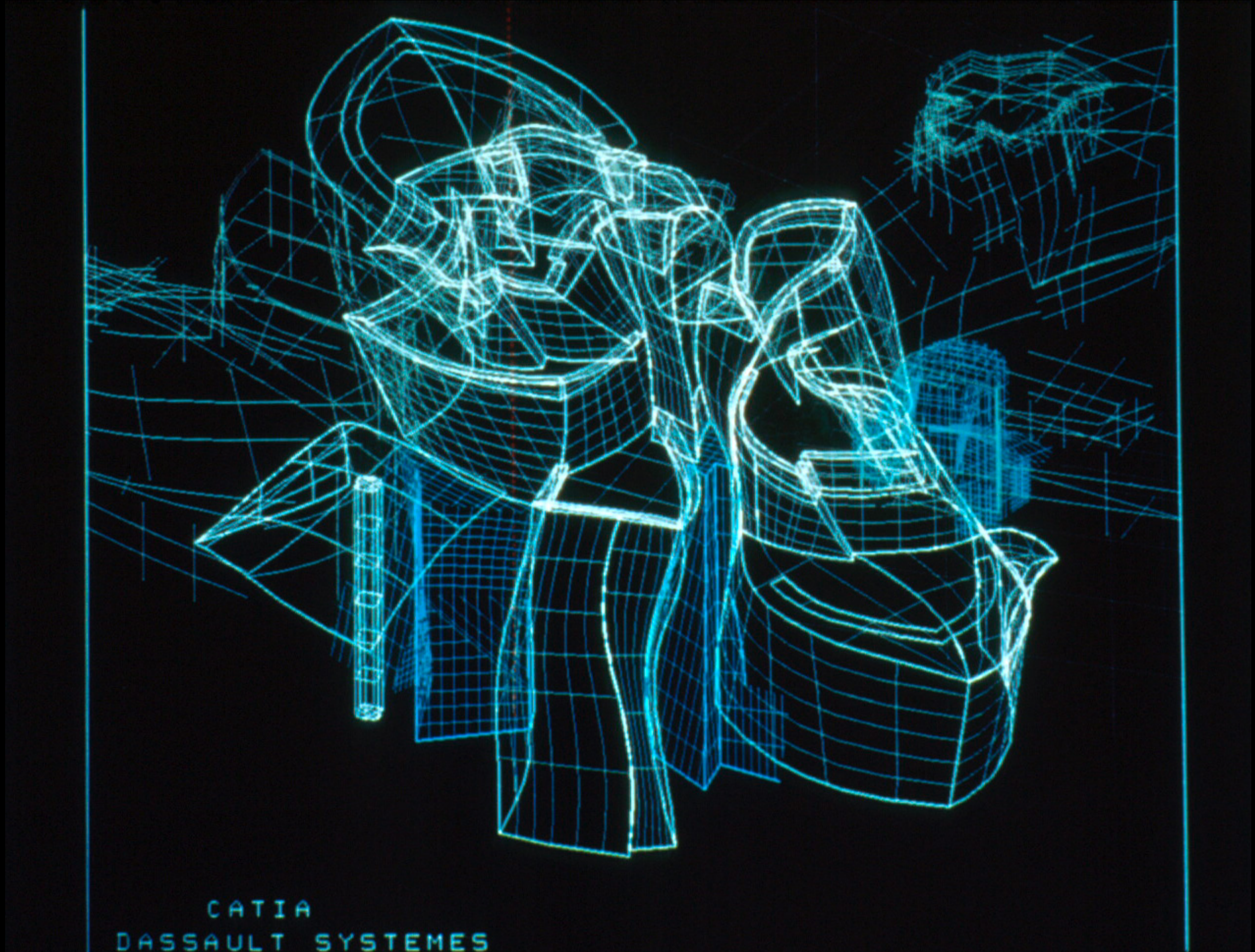
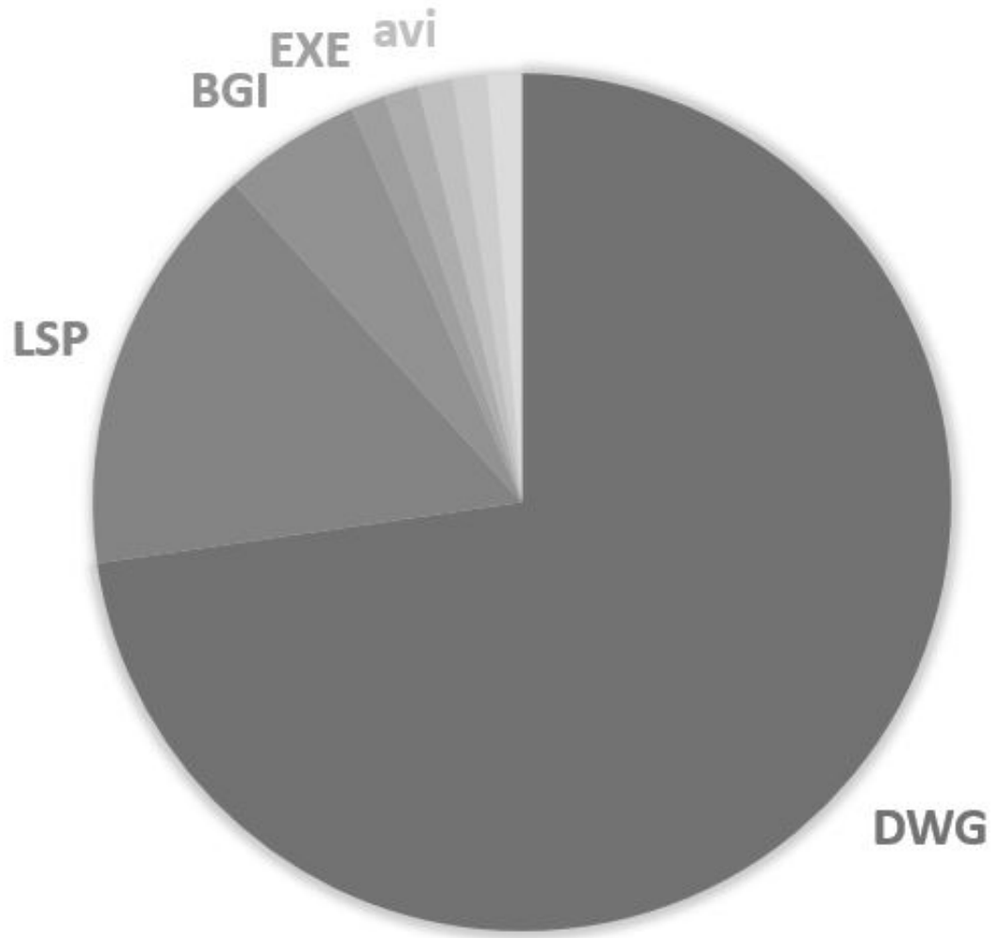
New Archives:
Digital Forensics and Programmatic Methods in Digital Design History

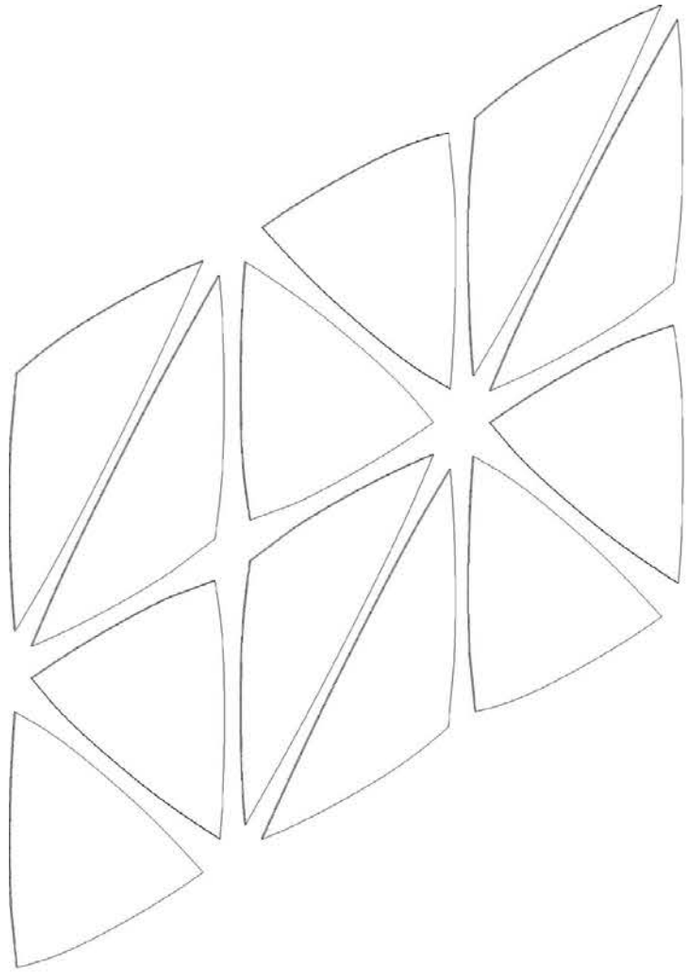
// ANDREW WITT // HARVARD GSD // CERTAIN MEASURES

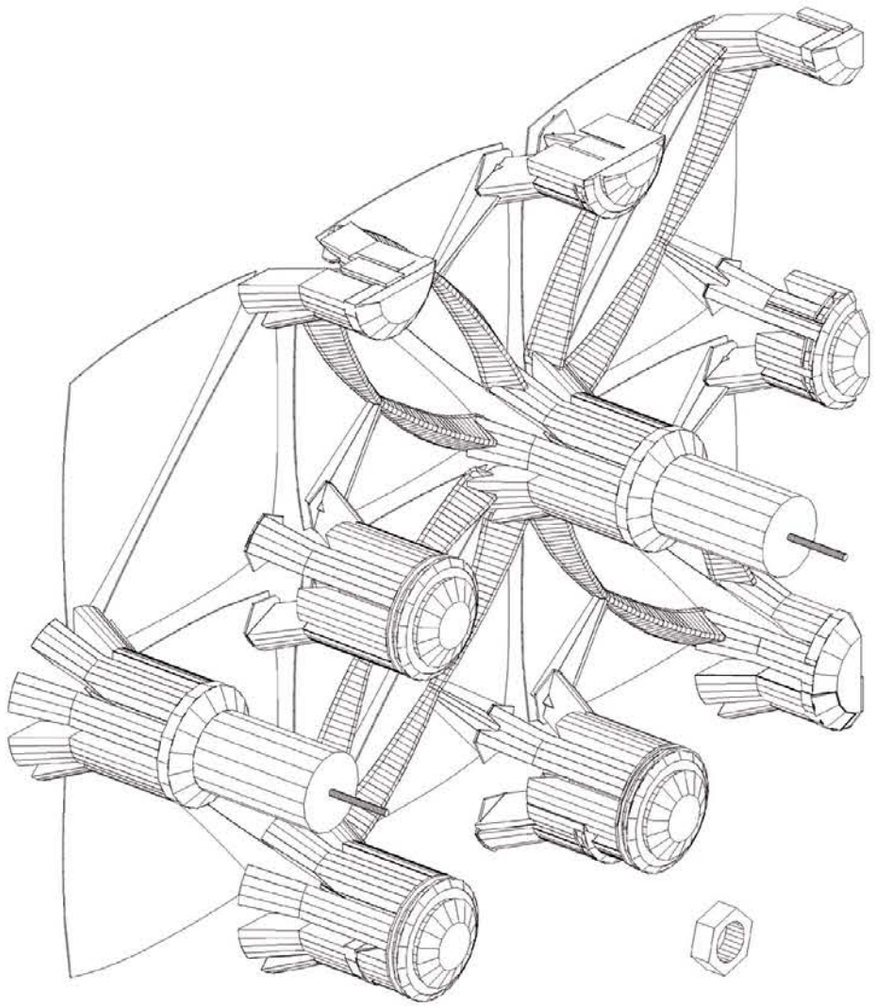

CATIA
DASSAULT SYSTEMES

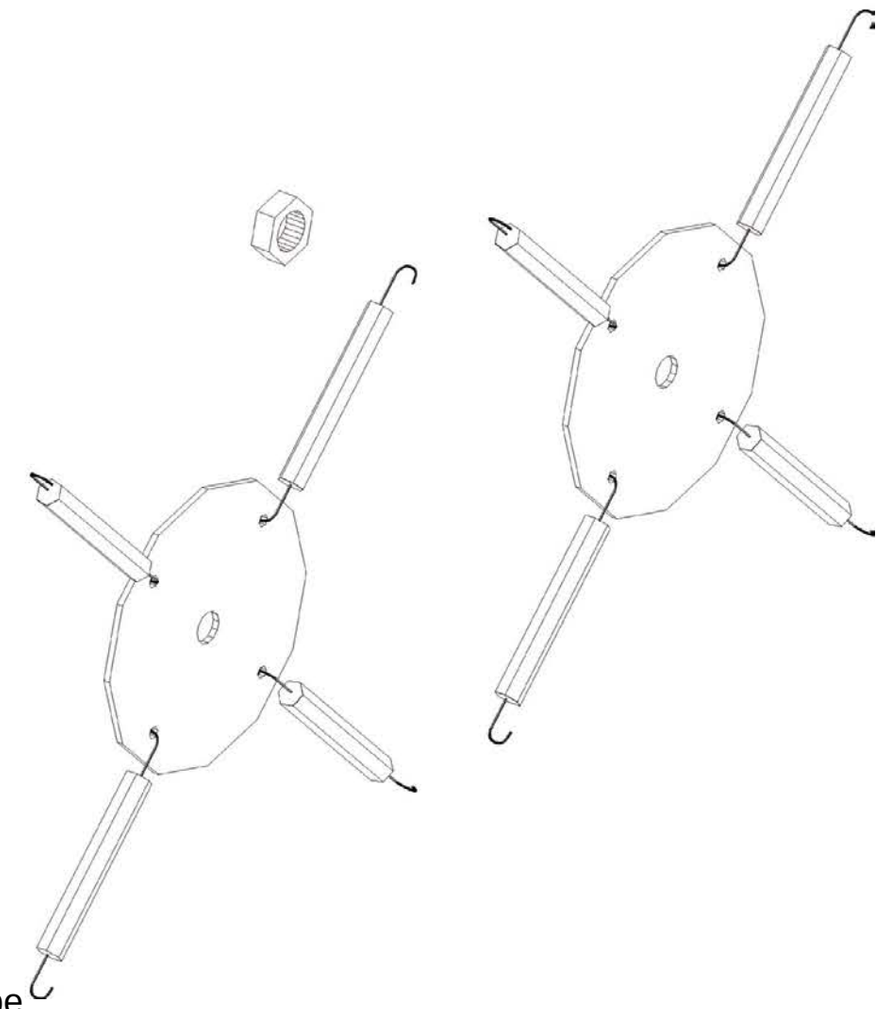
Source Code as Historical Document




```
(defun c:hub1()
    *** set up parameters ***
    (setq dp1 0.062)
    (setq sl1 0.11)
    (setq sl2 0.06)
    (setq w1 0.129)
    (setq w2 0.011)
    (setq lp1 0.050)
    (setq sd1 0.10)
    (setq sr1 0.047)
    (setq th1 0.06)
    (setq th2 0.210)
    (setq rsc 0.0775)
    (setq sco 0.099)
    (setq rct  0.125)
    ;
    ;*** get lines ***
    (command "ucs" "w" \r)
    (prin1 "select first line: ")
    (setq sset (ssget))
    (setq ln1  (entget (ssname sset 0)))
    (setq p01 (cdr (assoc '10 ln1)))
    (setq p1 (cdr (assoc '11 ln1)))
    (prin1 "select second line: ")
    (setq sset (ssget))
    (setq ln1  (entget (ssname sset 0)))
    (setq p02 (cdr (assoc '10 ln1)))
    (setq p2 (cdr (assoc '11 ln1)))
    (prin1 "select third line: ")
    (setq sset (ssget))
    (setq ln1  (entget (ssname sset 0)))
    (setq p03 (cdr (assoc '10 ln1)))
    (setq p3 (cdr (assoc '11 ln1)))
    (prin1 "select fourth line: ")
    (setq sset (ssget))
    (setq ln1  (entget (ssname sset 0)))
    (setq p04 (cdr (assoc '10 ln1)))
    (setq p4 (cdr (assoc '11 ln1)))
    ;
    ;*** station #1 ***
    (command "ucs" "w" \r)
    (command "ucs" "3" p01 p1 p2 \r)
    (setq pt  (list (distance p01 p1) 0 0))
    (command "ucs" "3" pt "" "" \r)
    (command "ucs" "s" "uc1" "y" "")
    (setq s11 (list (- sl1) w2 0))
    (setq s12 (list (- sl1) (+ w2 w1) 0))
    (setq s13 (list sl2 (+ w2 w1) 0))
    (setq s14 (list sl2 w2 0))
    (command "line" s14 s13 \r)
    (setq sset (ssget "l"))
    (setq ln1 (entget (ssname sset 0)))
    (setq s14w (cdr (assoc '10 ln1)))
```







Mark Goulthorpe Hyposurface project records, Canadian Centre for Architecture, Gift of Mark Goulthorpe

DESIGN

Mark Goulthorpe

Oliver Dering

Gabriele Evangelisti

Arnaud Descombes

PROGRAMMATIC/DESIGN

prof. Mark Burry
Deakin University, Australia

Grant Dunlop
Deakin University, Australia

Peter Wood
University Wellcington, Australia

MATHEMATICS

Dr Alex Scott
Ucl, UK

prof. Keith Ball
Ucl, UK

PROGRAMMING

Xavier Robitaille
University of Toronto

MECHATRONICS/INTERACTIVE SYSTEMS

prof. Saeid Nahauandra

Dr Abbas Kouzani

STRUCTURAL/MECHANICAL ENGINEERING

David Glover Ove Arup Group IV, UK

PNEUMATIC ENGINEERING

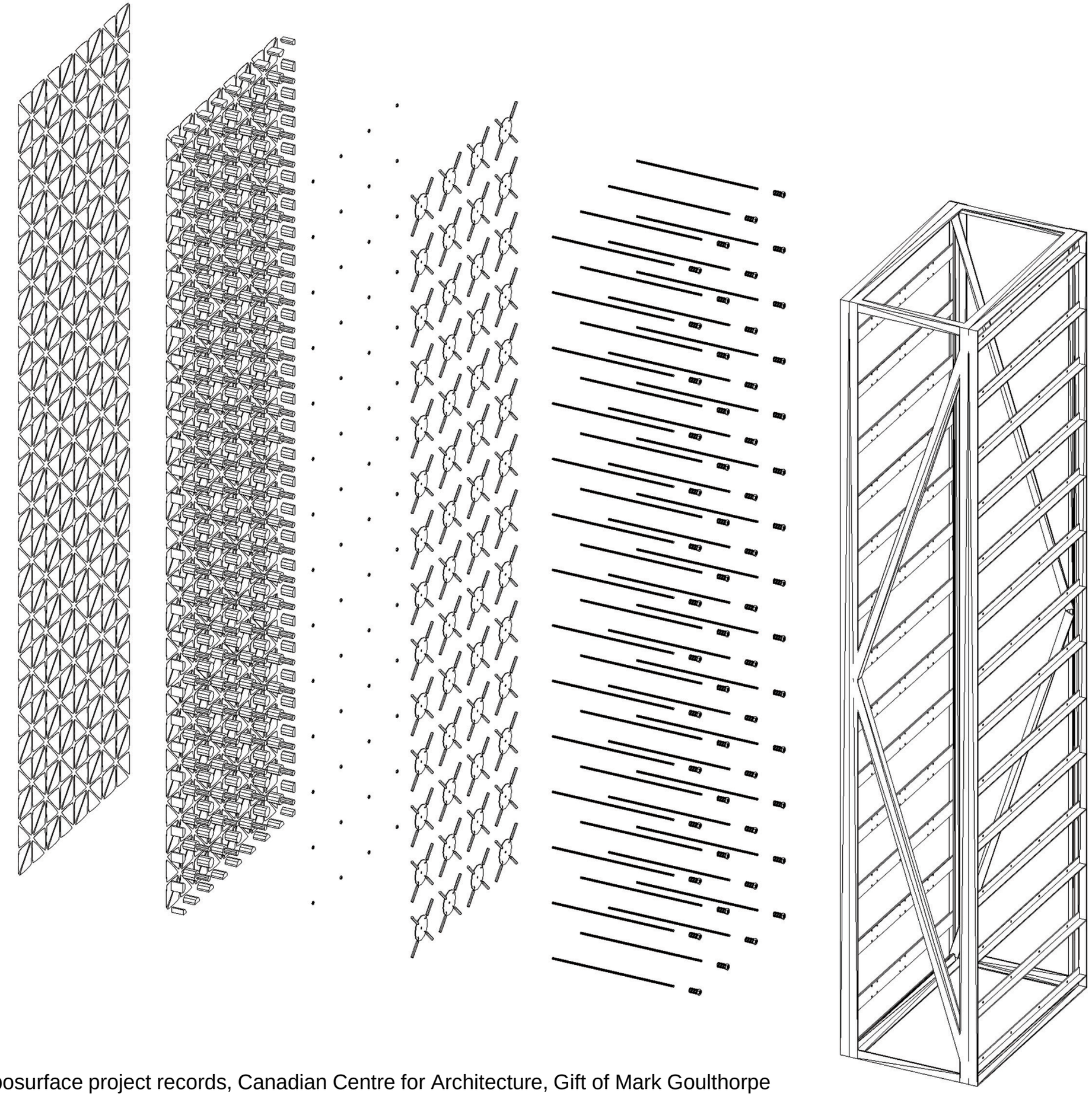
Robert Pinto
Univer LTD, UK

RUBBER RESEARCH

Burton Rubber
Rubber LTD, UK

Rapra
, UK

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Mark Goulthorpe Hyposurface project records, Canadian Centre for Architecture, Gift of Mark Goulthorpe

HYPOSURFACE

```
/*****************************************************************************
 *
 *  FILE     : aeg
 *  AUTHOR   : Xavier Robitaille
 *  CREATION : 20/11/2000
 *
 *  DESCRIPTION:
 *
 *
 *  NOTES:
 *
 *  REVISION HISTORY:
 *     Date:
 *     Modifier:
 *     Change:
 *
 *****************************************************************************/

#include <stdlib.h>
#include <stdio.h>

#include <fastgl/fastgl.h>

#include "agDefs.h"
#include "agDM.h"
#include "agPG.h"


static int value=100;
static unsigned long cnt=0;
static FGTimer *tmr;

//----------------------------------
// Variables for pattern generation.
//----------------------------------
double gTime = 0;


//=============================================================================
//
// Method:
//
// Description:
//
// Modifies:
//
// Returns:
//
// Notes:
//
```

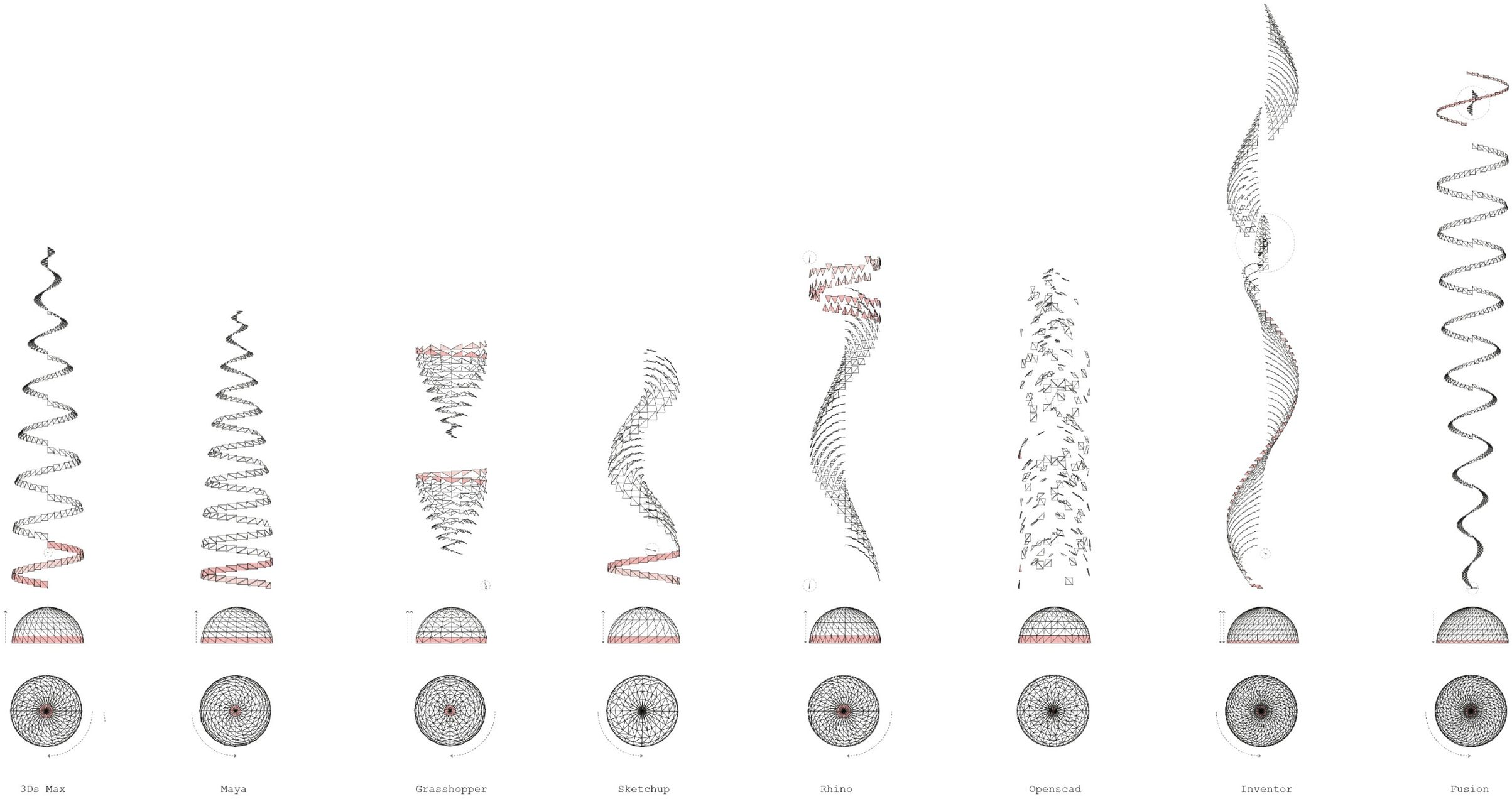
Mark Goulthorpe Hyposurface project records, Canadian Centre for Architecture, Gift of Mark Goulthorpe

IRIS DOME

```
(defun c:hub1()
    *** set up p
    (setq dp1 0
    (setq sl1 0.11)
    (setq sl2 0.06)
    (setq w1 0.129)
    (setq w2 0.011)
    (setq lp1 0.050)
    (setq sd1 0.10)
    (setq sr1 0.047)
    (setq th1 0.06)
    (setq th2 0.210)
    (setq rsc 0.0775)
    (setq sco 0.099)
    (setq rct  0.125)
    ;
    ;*** get lines ***
    (command "ucs" "w" \r)
    (prin1 "select first line: ")
    (setq sset (ssget))
    (setq ln1  (entget (ssname sset 0)))
    (setq p01 (cdr (assoc '10 ln1)))
    (setq p1 (cdr (assoc '11 ln1)))
    (prin1 "select second line: ")
    (setq sset (ssget))
    (setq ln1  (entget (ssname sset 0)))
    (setq p02 (cdr (assoc '10 ln1)))
    (setq p2 (cdr (assoc '11 ln1)))
    (prin1 "select third line: ")
    (setq sset (ssget))
    (setq ln1  (entget (ssname sset 0)))
    (setq p03 (cdr (assoc '10 ln1)))
    (setq p3 (cdr (assoc '11 ln1)))
    (prin1 "select fourth line: ")
    (setq sset (ssget))
    (setq ln1  (entget (ssname sset 0)))
    (setq p04 (cdr (assoc '10 ln1)))
    (setq p4 (cdr (assoc '11 ln1)))
    ;
    ;*** station #1 ***
    (command "ucs" "w" \r)
    (command "ucs" "3" p01 p1 p2 \r)
    (setq pt  (list (distance p01 p1) 0 0))
    (command "ucs" "3" pt "" "" \r)
    (command "ucs" "s" "uc1" "y" "")
    (setq s11 (list (- sl1) w2 0))
    (setq s12 (list (- sl1) (+ w2 w1) 0))
    (setq s13 (list sl2 (+ w2 w1) 0))
    (setq s14 (list sl2 w2 0))
    (command "line" s14 s13 \r)
    (setq sset (ssget "l"))
    (setq ln1 (entget (ssname sset 0)))
    (setq s14w (cdr (assoc '10 ln1)))
```

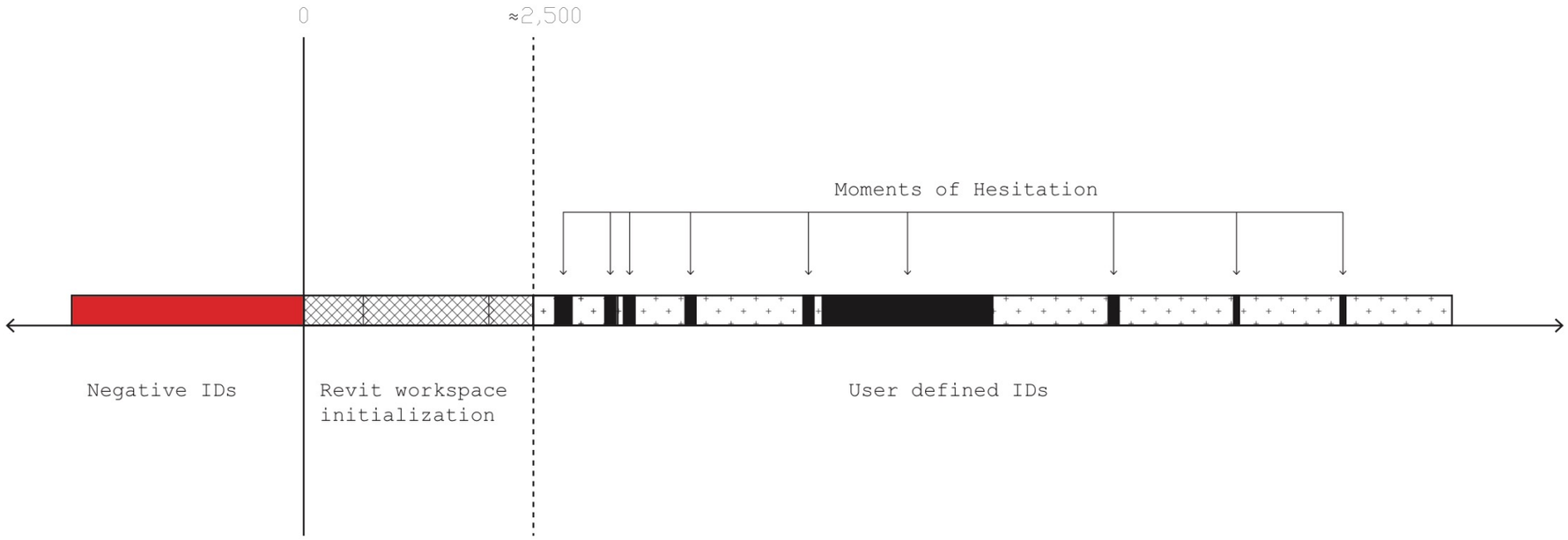
Digital Forensics

Mesh Operations of Hemispheres in Various Software Programs



Jonah James Merlin Ross-Marrs. Instructor: Andrew Witt.

Revit file’s ID timeline

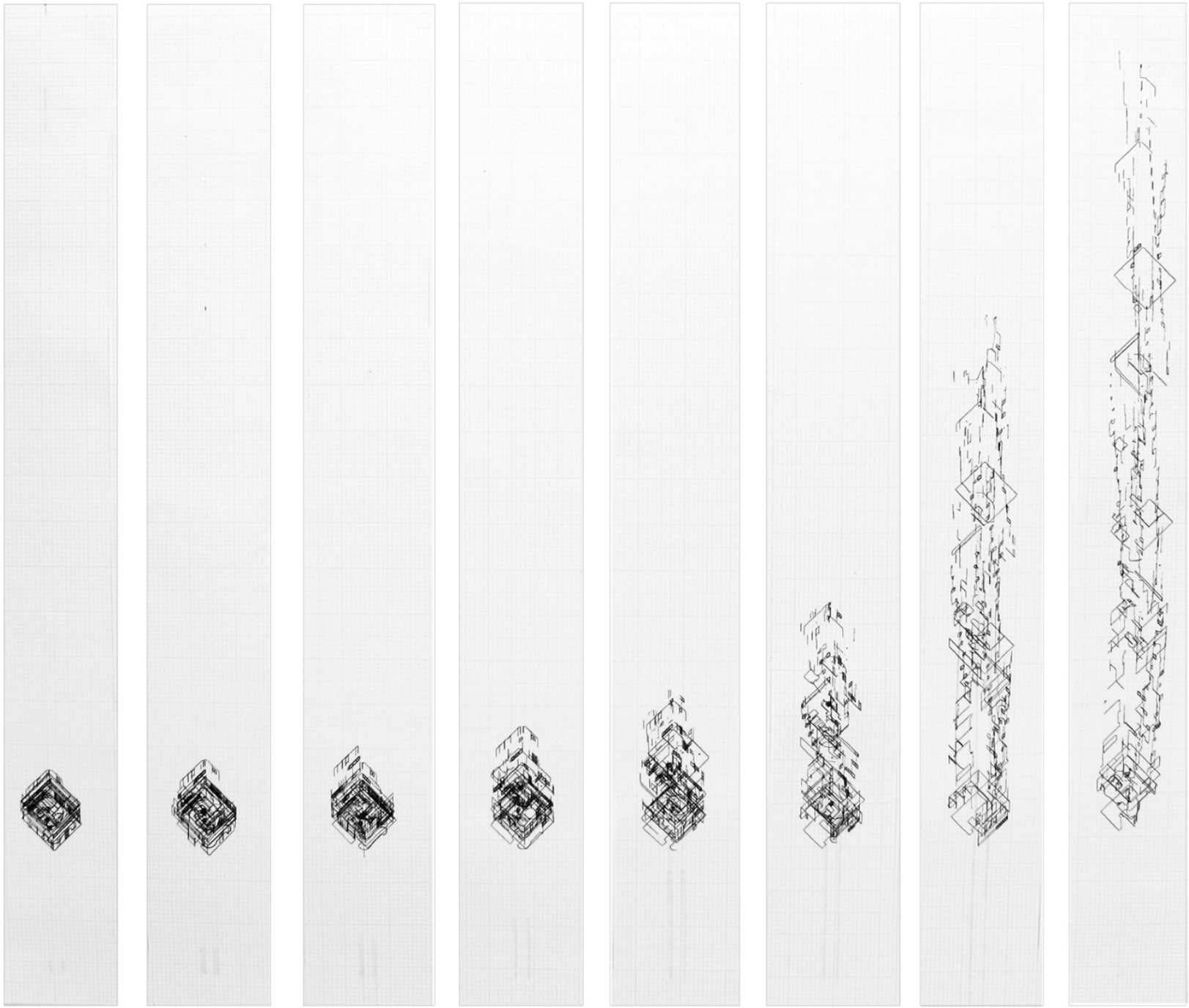


Deleted Elements

Surviving Elements

Revit

Jonah James Merlin Ross-Marrs. Instructor: Andrew Witt.

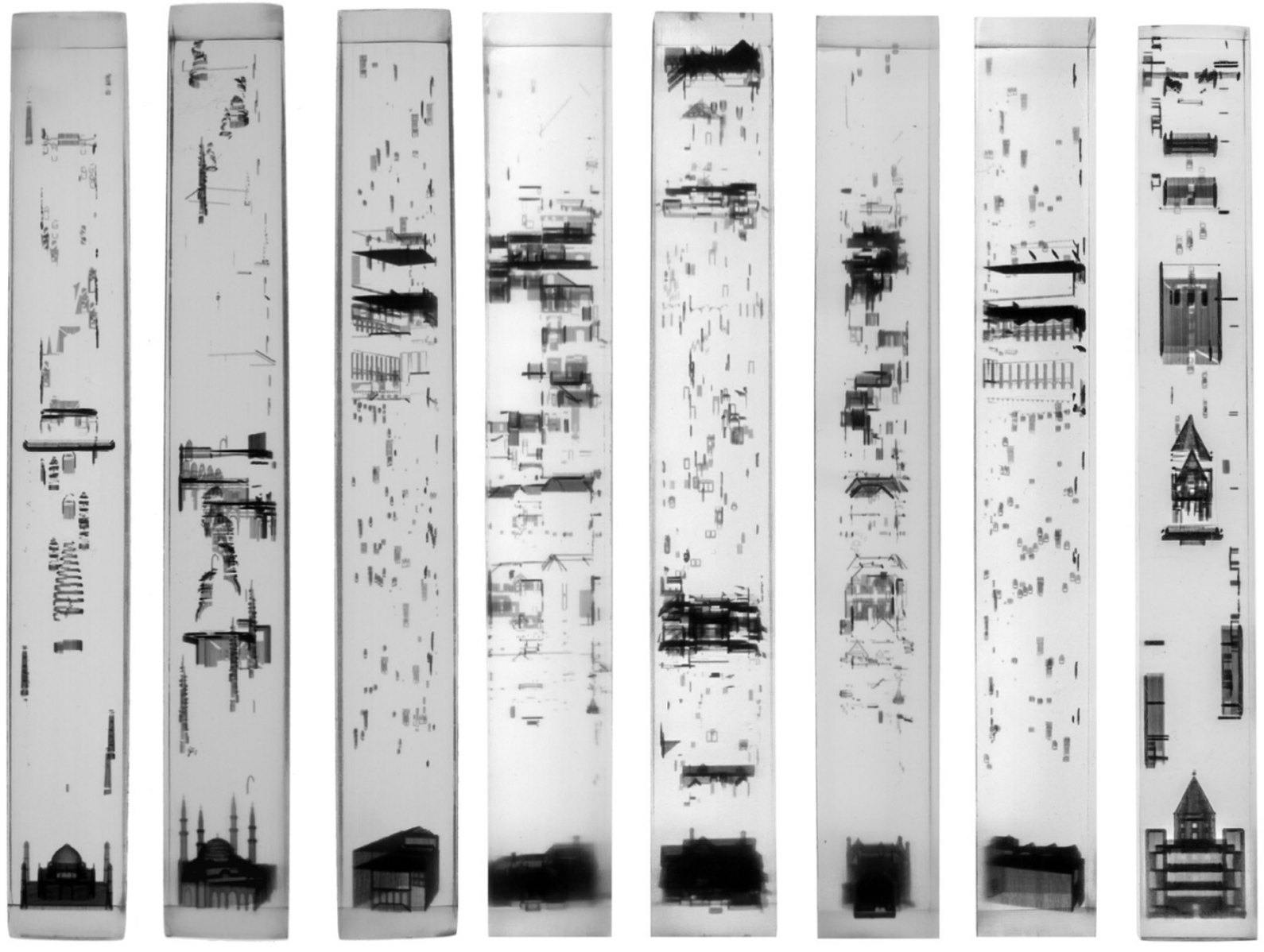


01 02 03 04 05 06 07 08

Villa Savoye Axonometric Time-lapse, 2015, Drawing Series D.
Tools: Custom Drawing Machine, G-Code, CAM-Software, exacto knife.
Materials: Graph Paper (8x8 quadrille), 0.1 Micron Pen.
Dimensions: Eight 2″ × 20″ strips.

01 0 interruptions
02 2 interruptions
03 4 interruptions
04 8 interruptions
05 16 interruptions
06 32 interruptions
07 64 interruptions
08 128 interruptions

Jonah James Merlin Ross-Marrs.

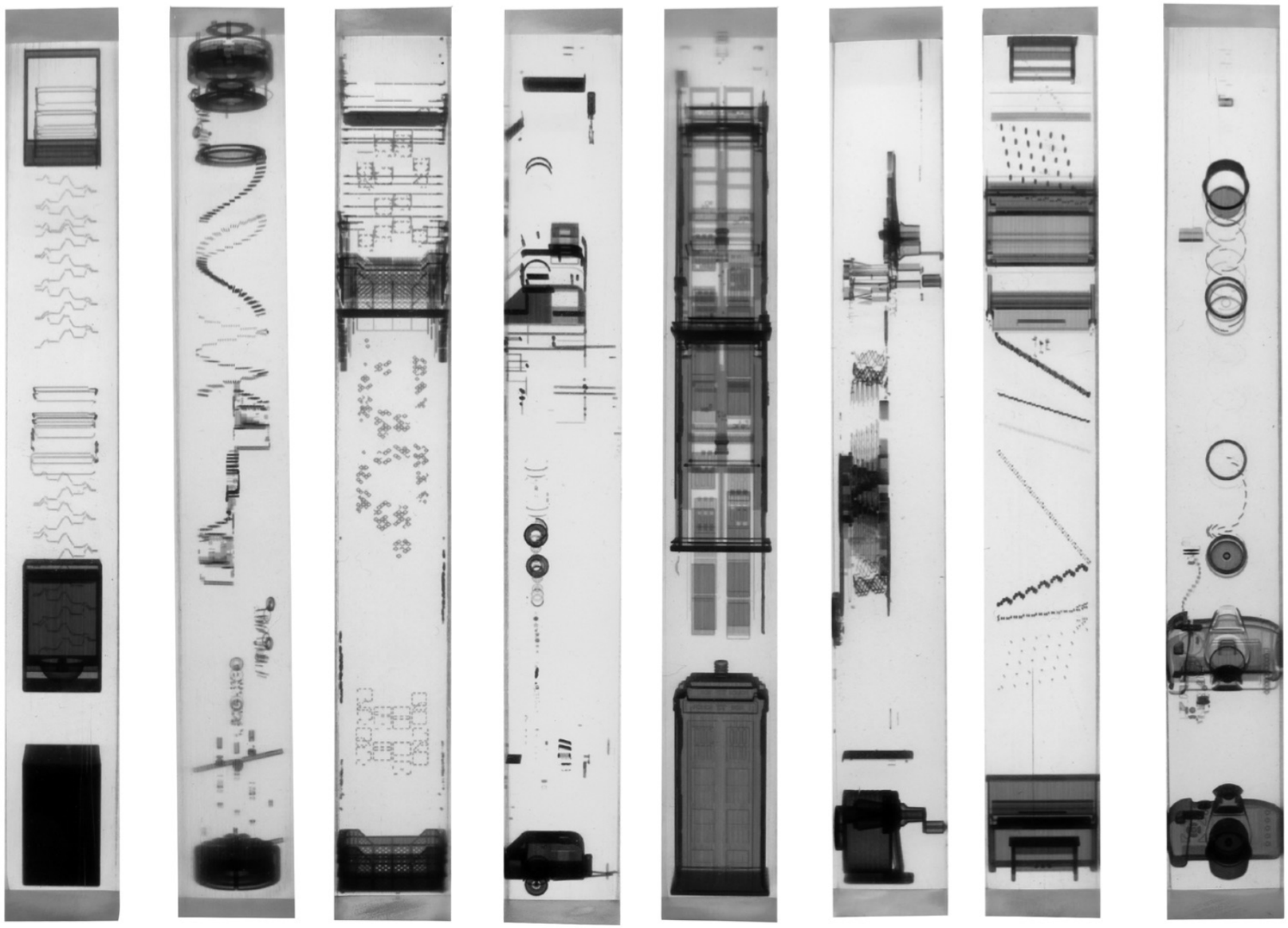


01 02 03 04 05 06 07 08

Time-lapse Mesh Operations of 3D Architectural Files, 2016, Series A.
Tools: Objet 500 3D printer, custom Processing script, sandpaper, buffing compound.
Materials: Tango Black and Tango Clear resins.
Dimensions: Eight 1″ × 1″ x 5″ Objet 500 3D prints.

01 Taj Mahal
02 Hagia Sophia
03 Building I
04 House I
05 House II
06 House III
07 Building II
08 Teatro del Mundo

Jonah James Merlin Ross-Marrs. Instructor: Andrew Witt.

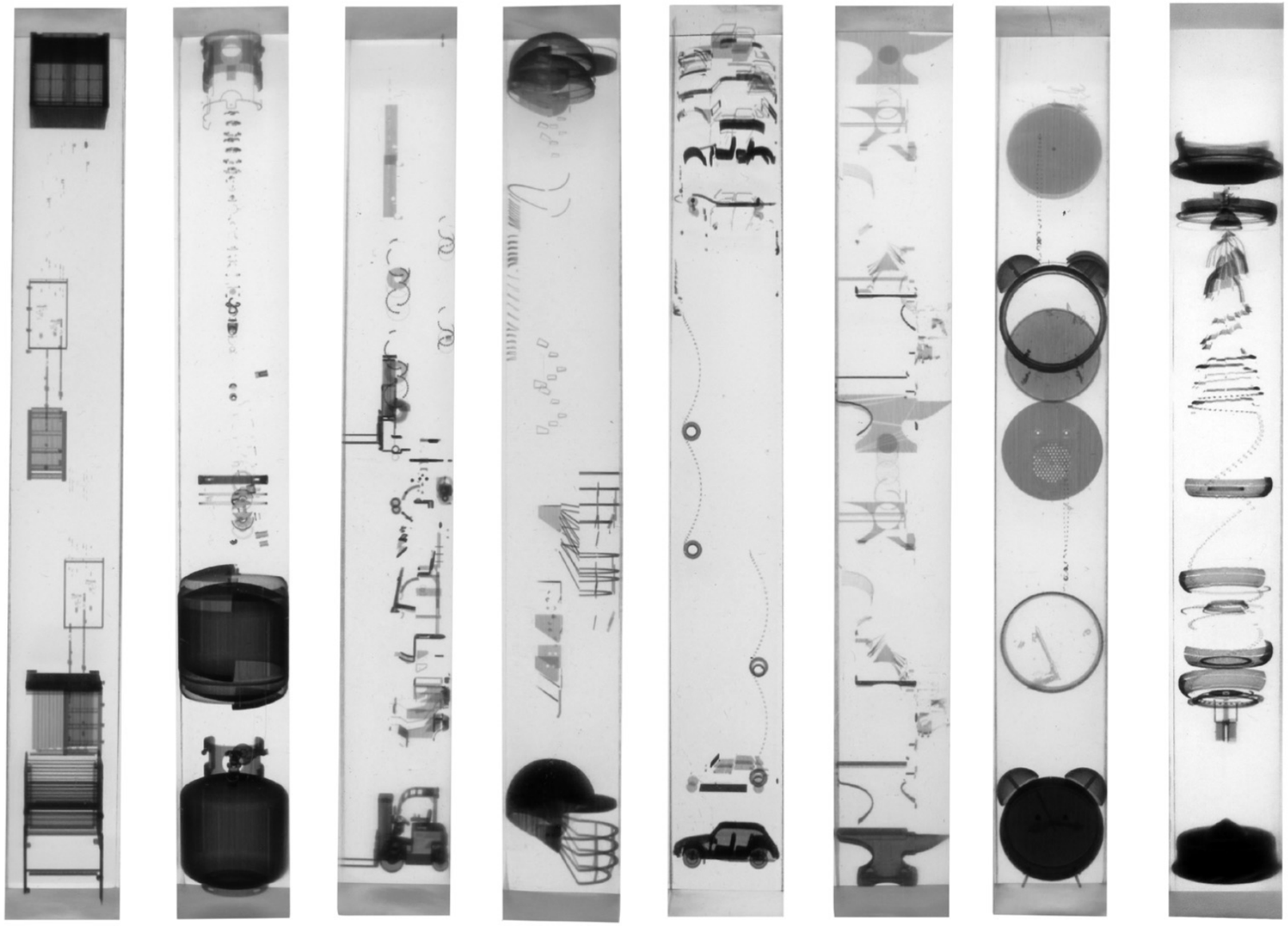


01 02 03 04 05 06 07 08

Time-lapse Mesh Operations of Assorted 3D Files, 2016, Series B.
Tools: Objet 500 3D printer, custom Processing script, sandpaper, buffing compound.
Materials: Tango Black and Tango Clear resins.
Dimensions: Eight 1″ × 1″ x 5″ Objet 500 3D prints.

01 Dishwasher
02 Bit lock
03 Milk crate
04 Trailer
05 Phone booth
06 Pencil Sharpener
07 Piano
08 DSLR Camera

Jonah James Merlin Ross-Marrs. Instructor: Andrew Witt.

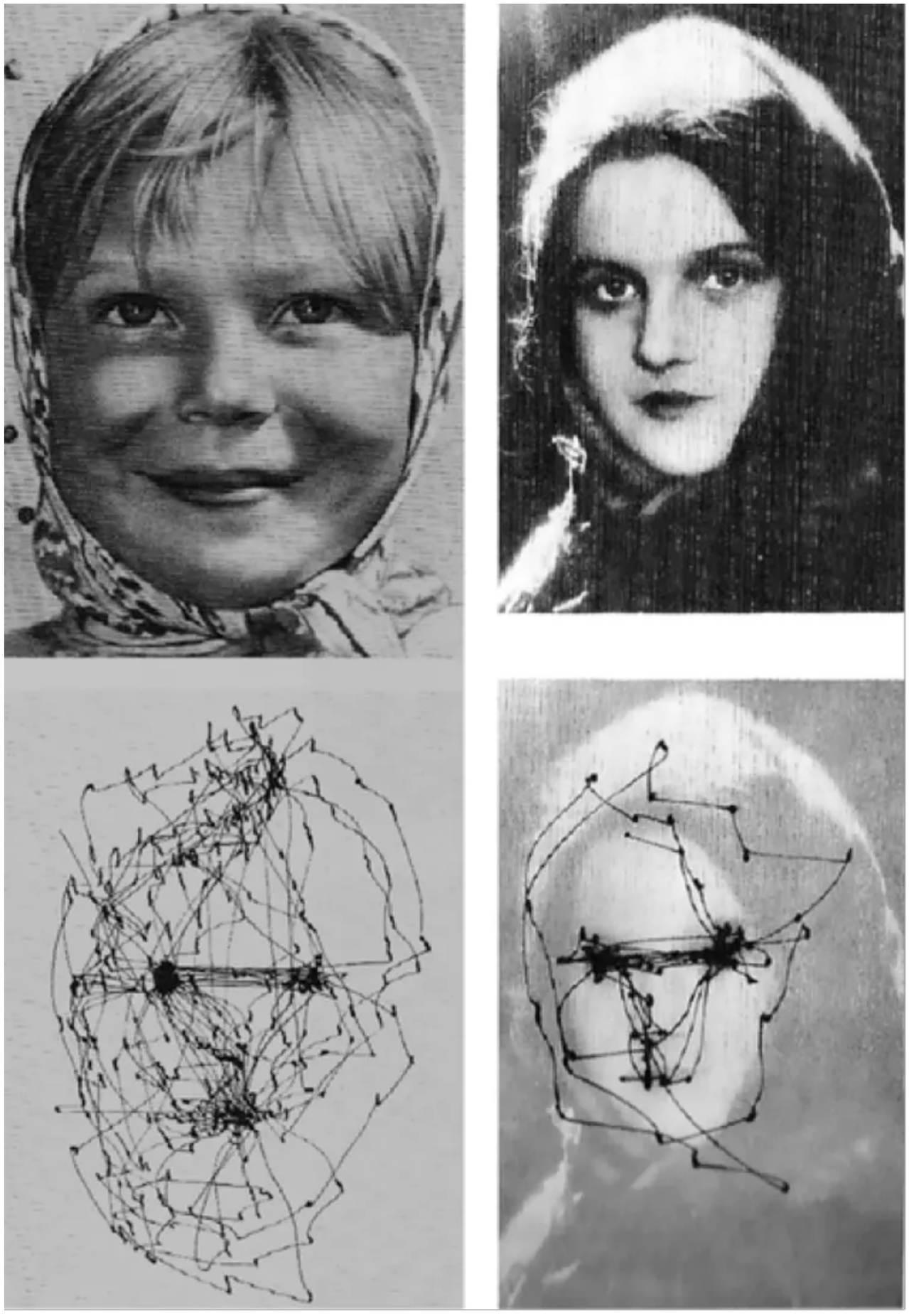


09 10 11 12 13 14 15 16

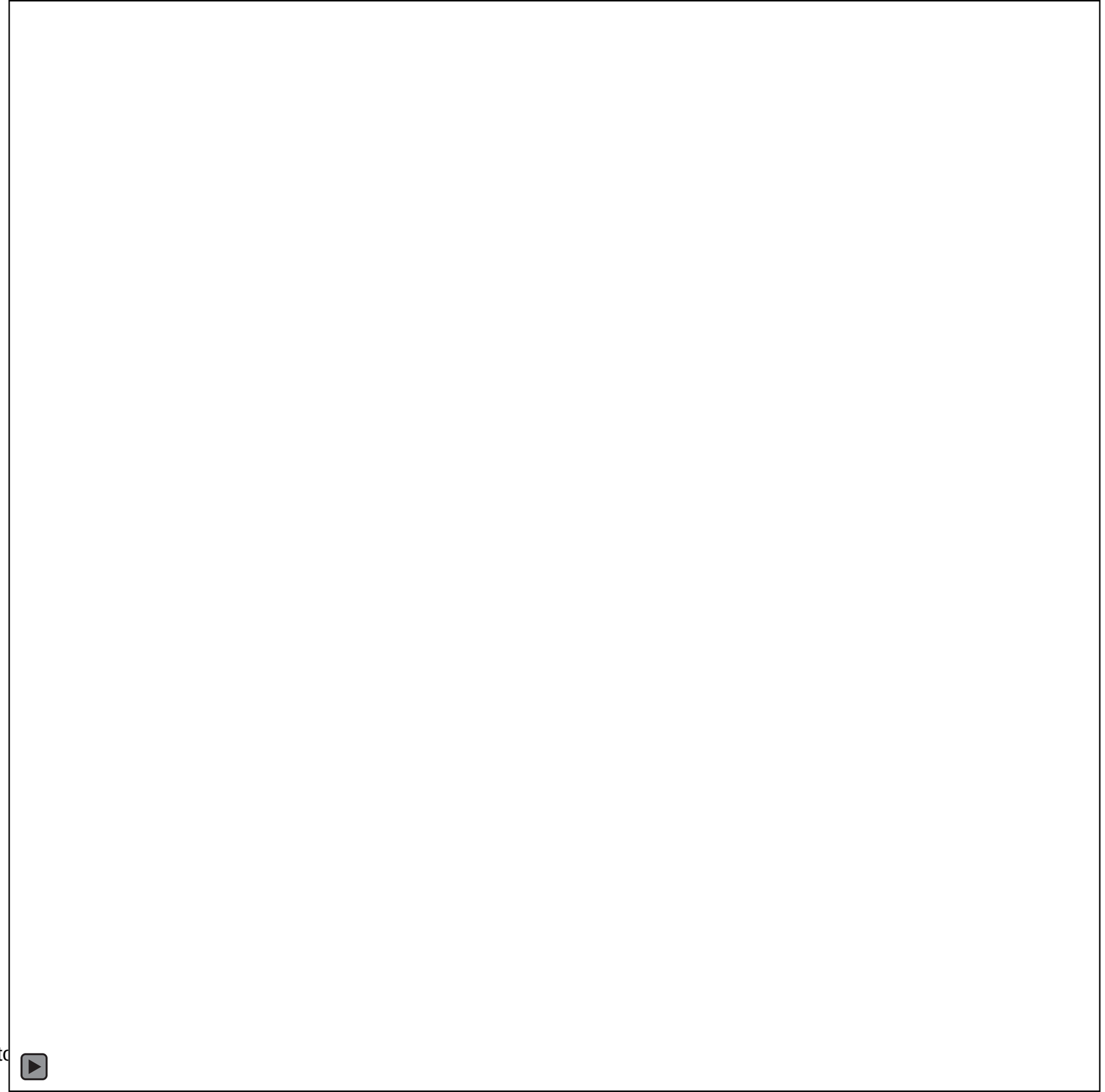
Time-lapse Mesh Operations of Assorted 3D Files, 2016, Series B.
Tools: Objet 500 3D printer, custom Processing script, sandpaper, buffing compound.
Materials: Tango Black and Tango Clear resins.
Dimensions: Eight 1″ × 1″ x 5″ Objet 500 3D prints.

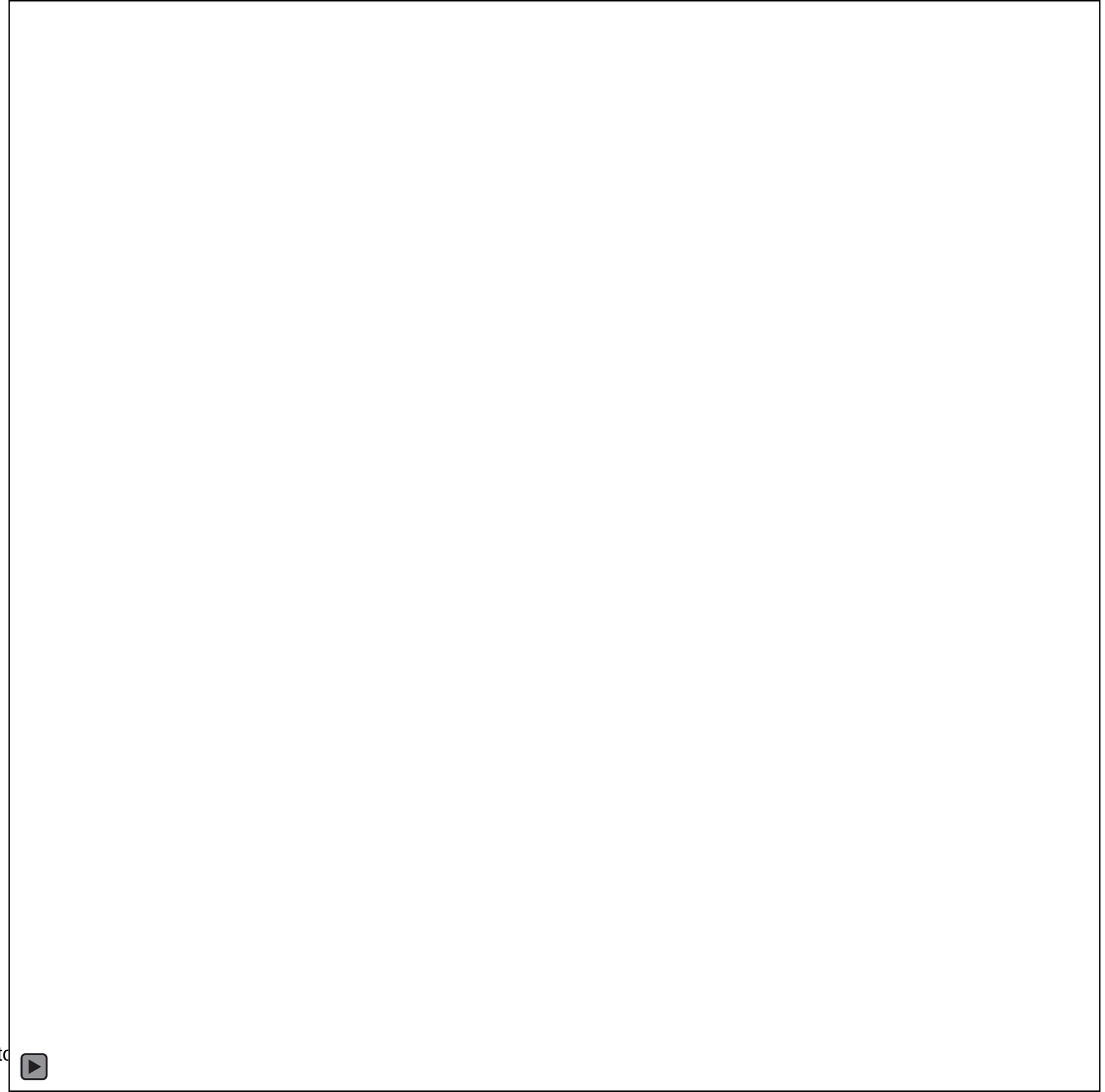
09 ISO Container
10 Propane tank
11 Forklift
12 Cricket Helmet
13 Citroen 2CV
14 Anvil
15 Alarm Clock
16 Lemon Squeezer

Jonah James Merlin Ross-Marrs. Instructor: Andrew Witt.

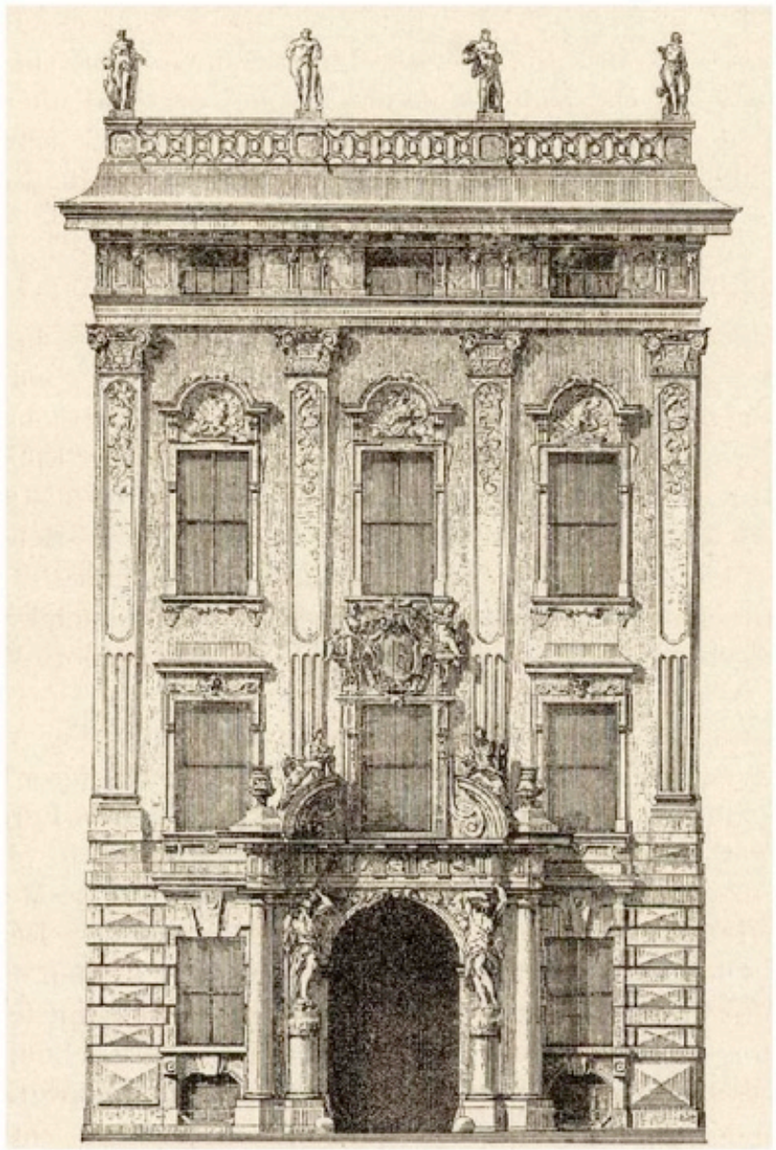


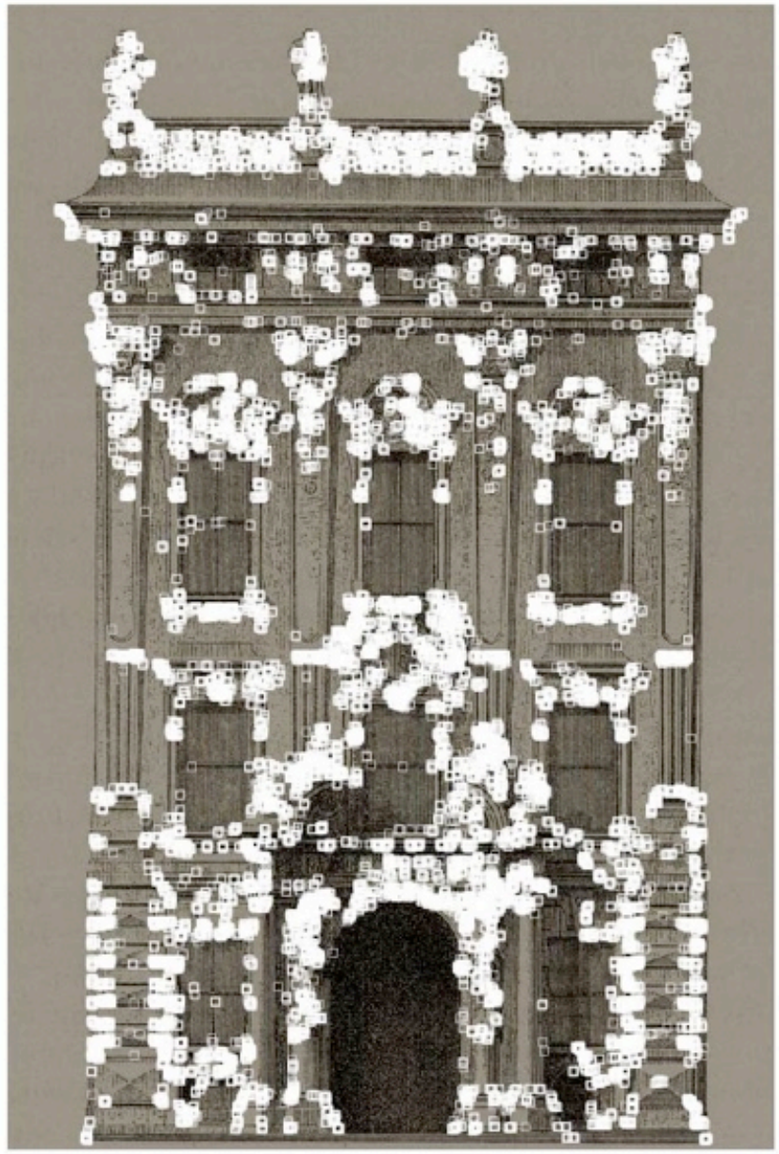
Alfred Yarbus, Saccadic Patterns.

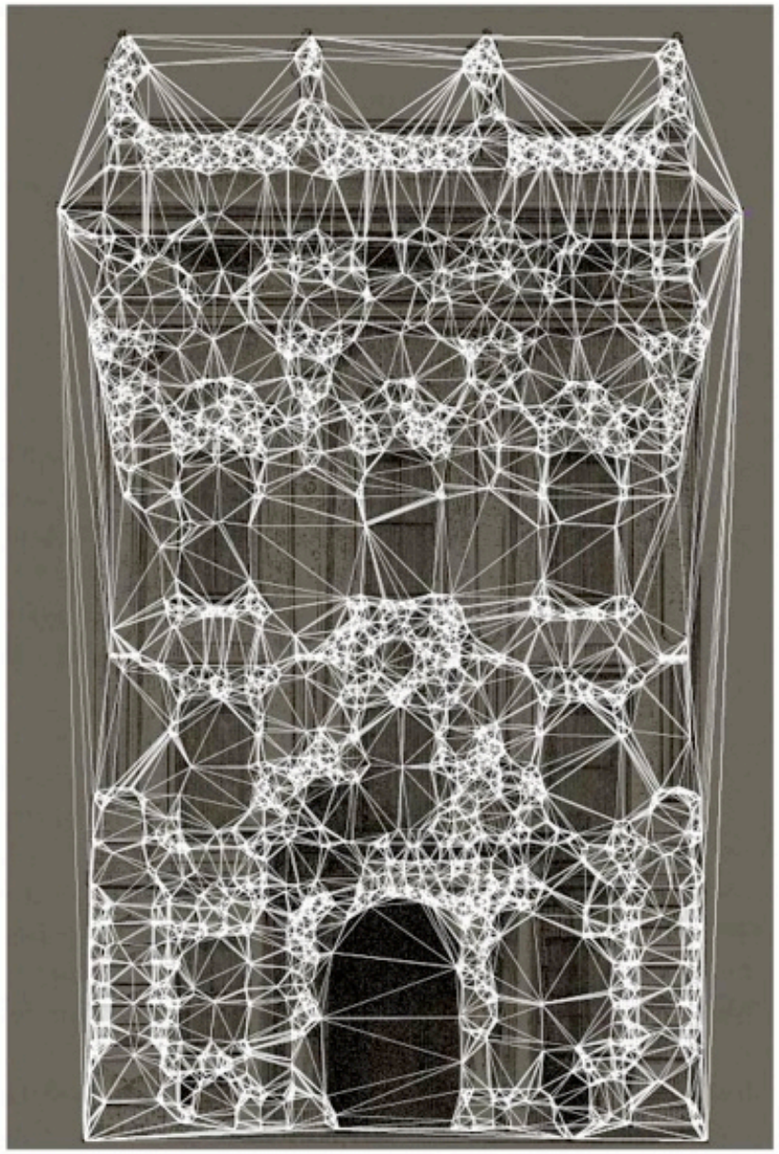




AI Archival Agents



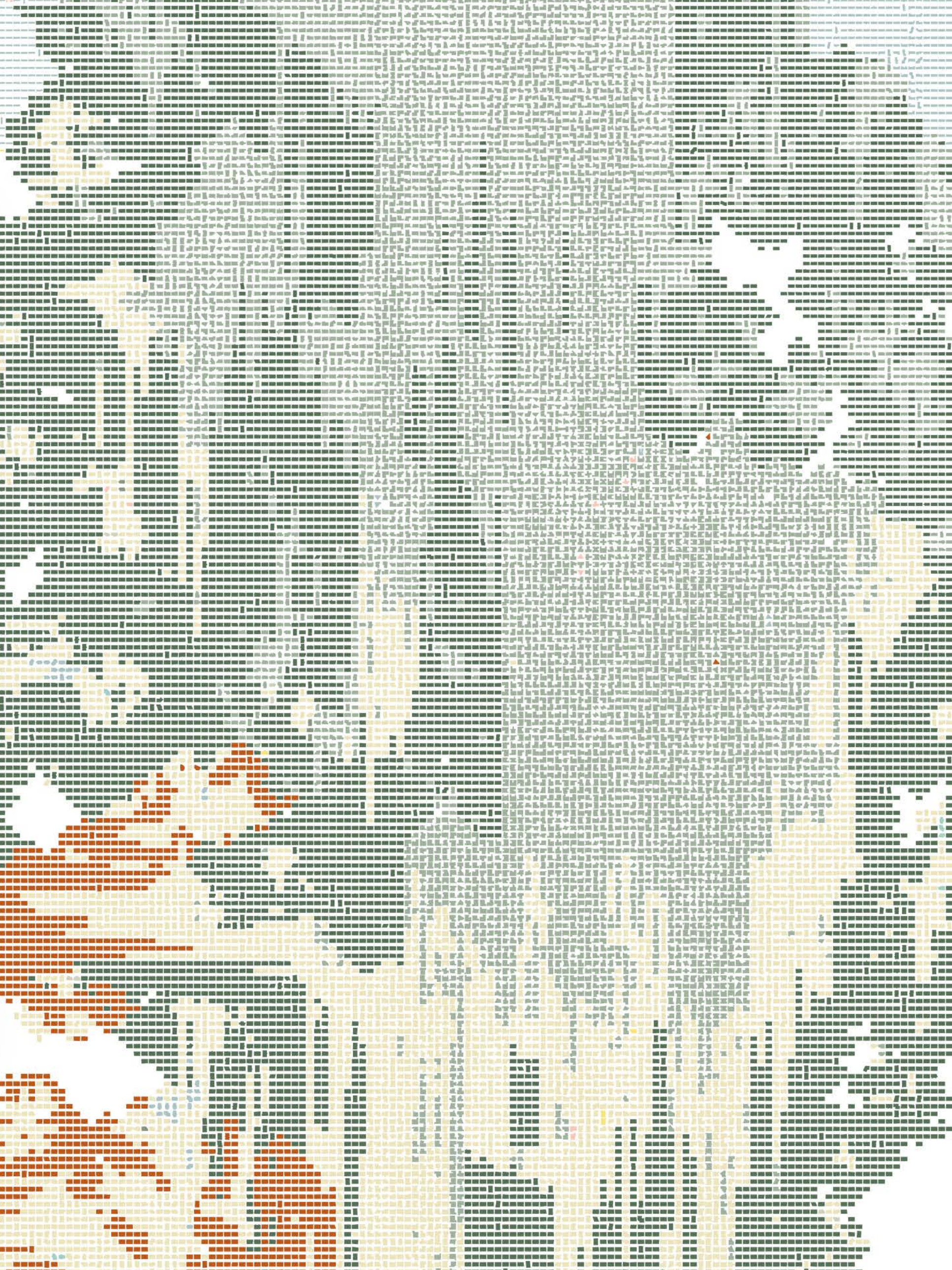


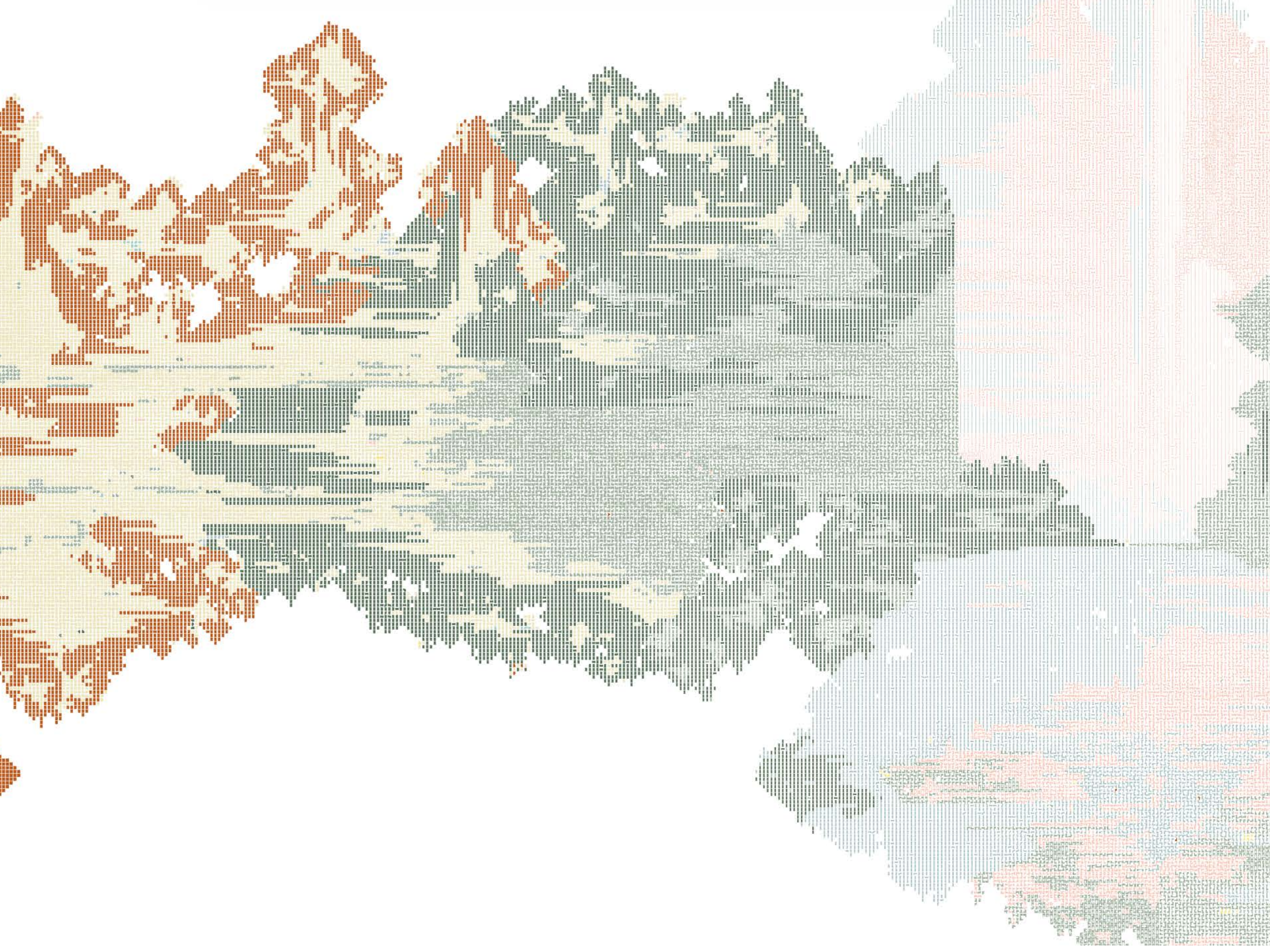


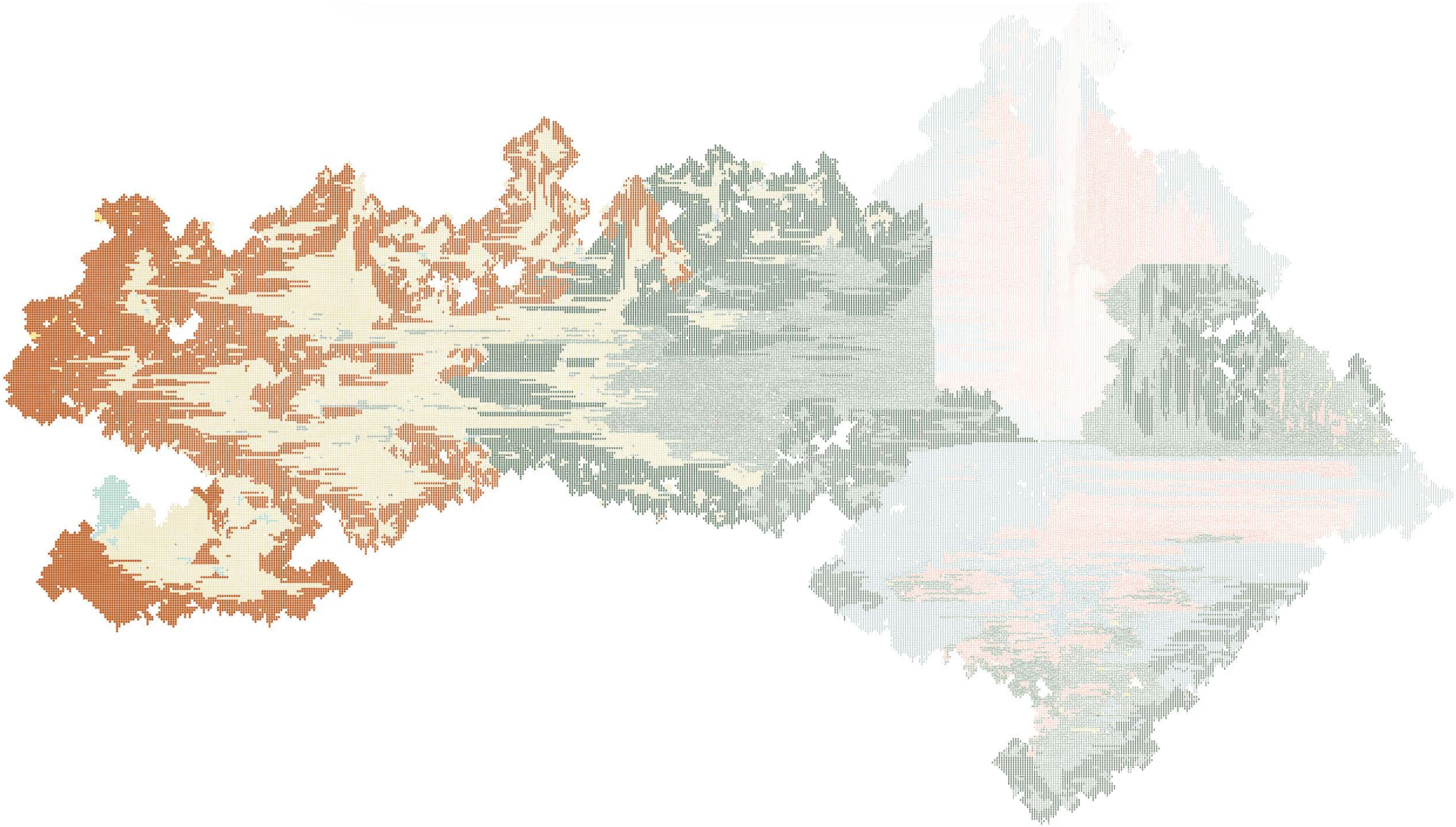
Machine Vision applied to building facade classification











New Archives:
Digital Forensics and Programmatic Methods in Digital Design History

// ANDREW WITT // HARVARD GSD // CERTAIN MEASURES

TOLERANCE : STD / COARSE

E

D

C

B

A

F

M

N

P

CATIA
DASSAULT SYSTEMES

