AR0771 - Introduction
Introduction to AR0771 - Beyond 3D Computer Visualisation

Chair of Design Informatics

Why this course?

What you imagined:

What you got instead:

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Course Layout

Artist's Impression

Goal: Create an well balanced A1 poster.

You will create one artist impression render which shows an atmospheric architectural setting.
Base this setting on a already designed building. This can be either your own design or an already existing building.

You can also use a favorite quote from a movie, poem or book as inspiration.

The poster should be interesting to look at for at least 2 minutes.

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Where it all begun

"In the year it was released, the Motion Picture Academy refused to nominate Tron for special effects because they said we 'cheated' when we used computers...."

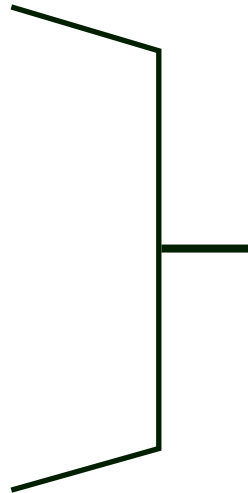Steven Lisberger 1982

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Computer Generated Imagery

The science and art of creating a
2D image using computers

This image contains the 4 most
important aspects of CGI from a
3D model

Copyright © 2000 by raumfaktur | www.raumfaktur.com

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Elements

- Model

- Lights

- Materials

- Camera

These are all combined
into a 2D image
in a process called rendering

Forget the box

Think and step outside the box

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Experiment

Tomasz Oczkowski 2005

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Try something new

www.dOUGh-CGI.de

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Be Unique!

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Workflow

Model only what you see

- Saves time modelling

- Saves time materializing

- Saves time rendering

Start by defining composition and point of view!

CGSociety.org
Copyright (C) Toni Bratincevic, submitted 29 November 2006

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Workflow - example

Moodboard

Idea and Composition Sketch

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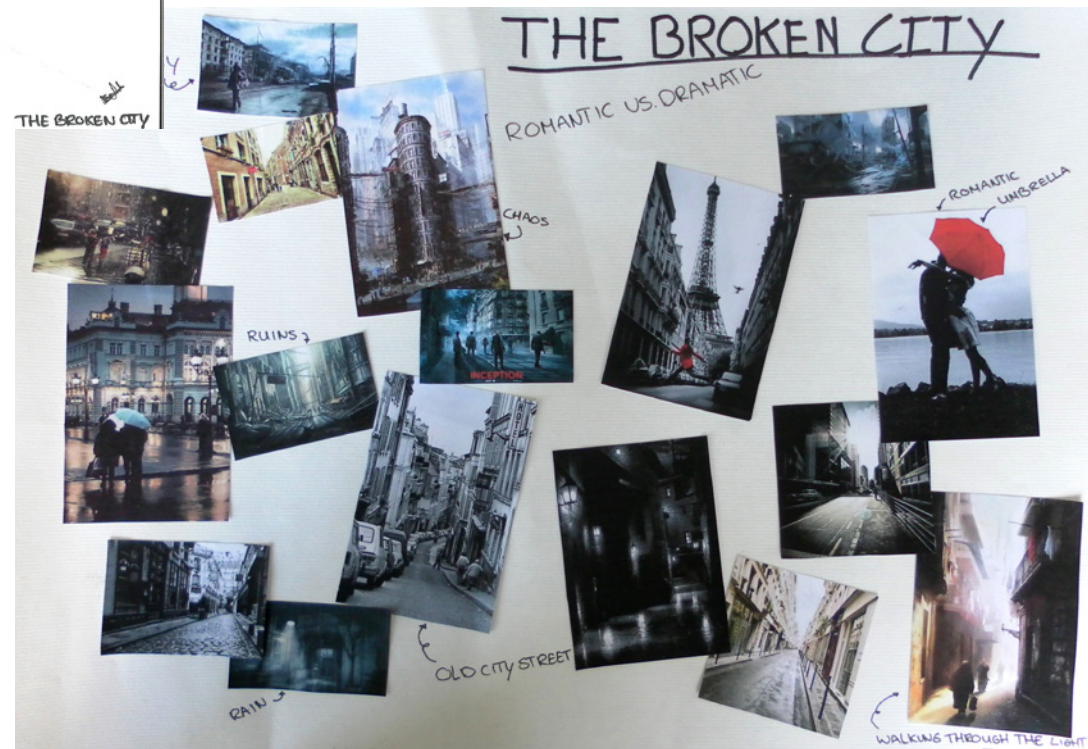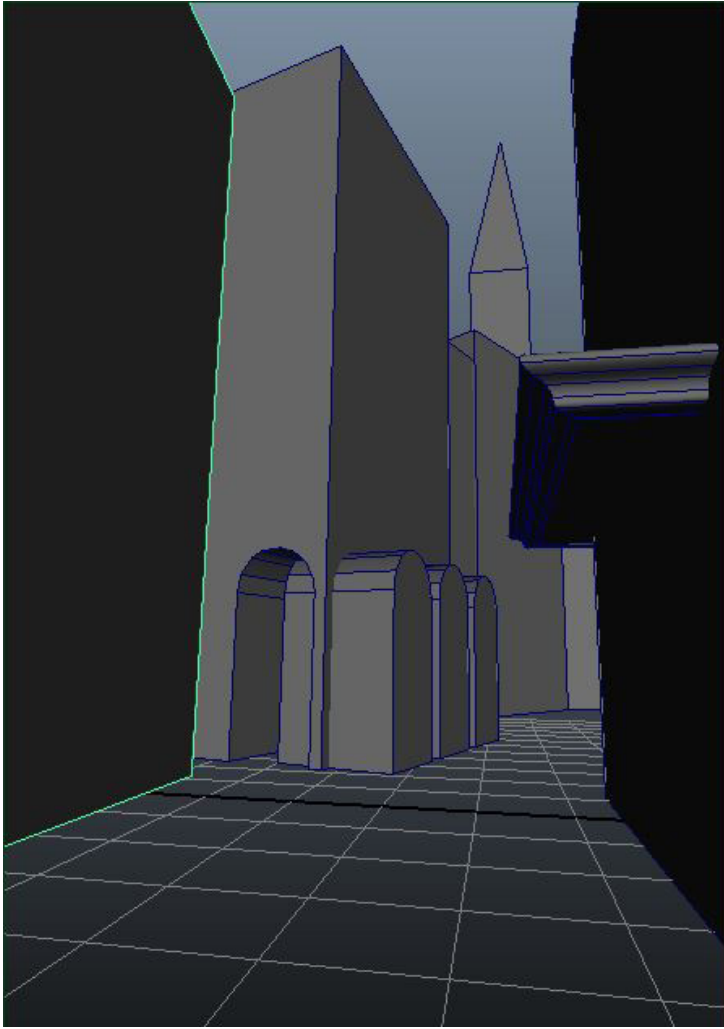
Workflow - example

3D model (sketch)
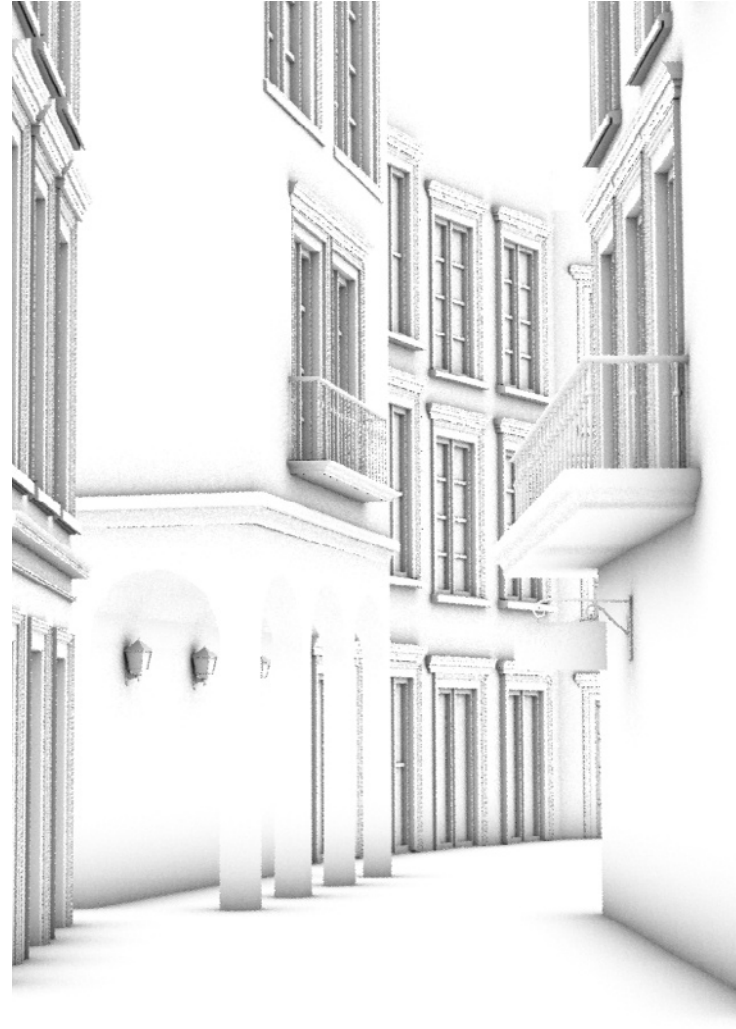
Ambient Occlusion

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Workflow - example

Lighting and
materialization

Final poster with post-processing

Workflow

Not everything needs to be modeled

- Photoshop is your friend

- Saves time modeling

- Saves time materializing

- Saves time rendering

- Often even looks better

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Schedule

The complete AR0771 course consists of a lecture and a group session in each week.

Monday 15:45-17:30 Lecture

There are weekly workshops, 4 hours each.

Workshop schedule:
TO BE DETERMINED!

During the 4 hour group sessions you will discuss your work with your tutor.

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Lectures

It is recommended to go to lectures, a broad variety of new topics will be discussed. In the workshops we'll assume that you are familiar with these topics.

NOTE: this schedule may be subject to change

Week 1	Week 2	Week 3	Week 4
Introduction Style	Composition Cameras	Modeling	Lighting Materials

Week 5	Week 6	Week 7	
Texturing Text. Mapping	Rendering Render Layers	Post-Production	

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Workshops & Deadlines

Week	Workshop	Assignment
1	workshop 1	1. Tutorial
2	workshop 2	2. Concept: Moodboard, Sketch
3	workshop 3	3. 3D Model
4	workshop 4	4. Light Setup
5	workshop 5	5. Textured Model
6	workshop 6	6. Improved Textured Model
7	workshop 7	7. Composited image
8	finalizing	
9	final check	
10		Final poster (print + digital)

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Workload

The AR0771 course is 6 credits and runs for 10 weeks.

1 credit (ECTS) equals 28 hours of work hence, 6 credits amounts to 168 hours or 17 hours a week.

There is room for your own planning. You can shift the workload to accomodate other deadlines.

But you have to put in the hours to get a good result. It's very much a hands-on course.

There is room to experiment and try. We expect you to do so!

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Course Information

The course description and general information is available on:

http://toi.bk.tudelft.nl/ar0771

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Course Material

All course material, manuals and tutorials:

http://wiki.bk.tudelft.nl/toi-pedia/ar0771

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Preparations

1. Go to the AR0771 TOI-Pedia website
   http://wiki.bk.tudelft.nl/toi-pedia/AR07711.

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Preparations

2. Install Maya from students.autodesk.com

manual: http://adhok.bk.tudelft.nl

Preparations

3. Read "Quick Start with Maya"
for important background information and basics

Preparations

4. Do the "Modeling an orthogonal pavillion"
    Maya Tutorial (Parc de la Vilette)
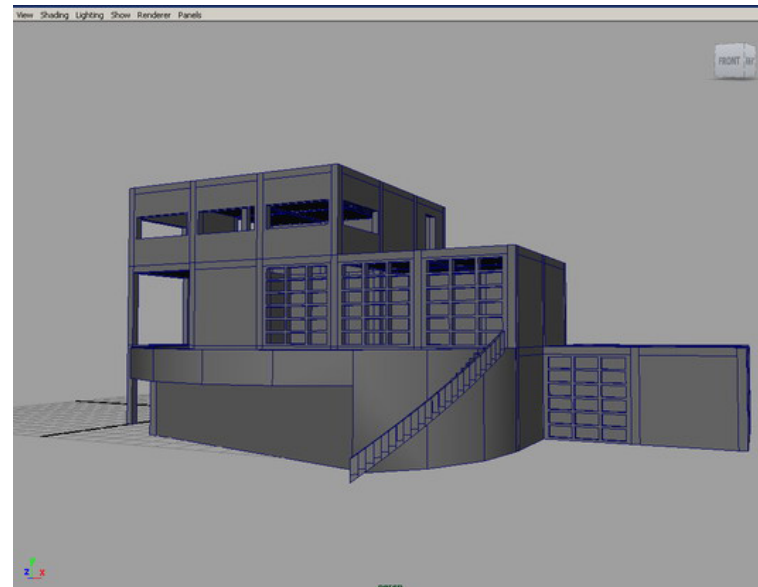
Assignment

This week (week 1)
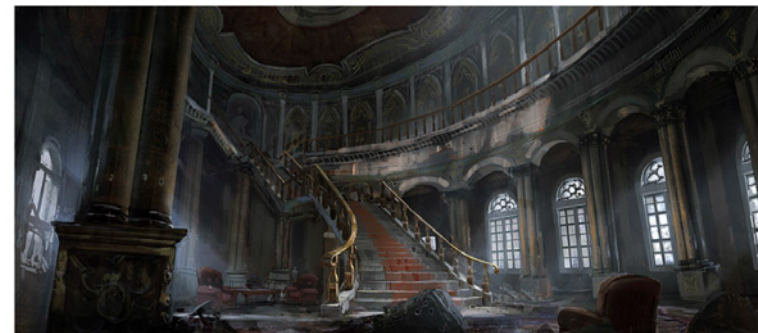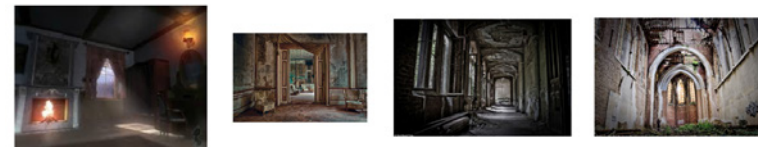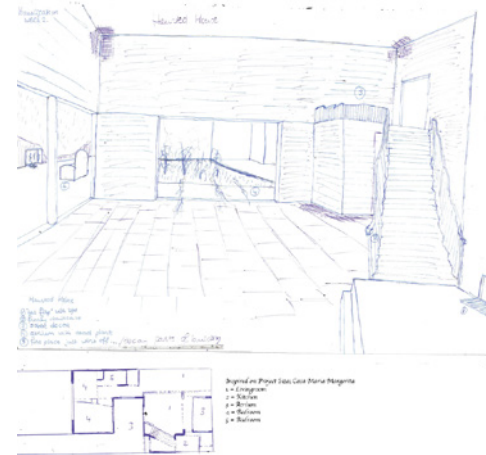Finish Parc de la Vilette tutorial

Next week (week 2)
Choose the setting and building you want to use for the poster.
Bring images, plans etc. so you can discuss it with your tutors.

Make a preliminary sketch of the composition of the layout of the poster.

Bring it to the worksho. Final versions due on Sunday.

You are **only** allowed to use **pencil and paper**!

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Borderterritories
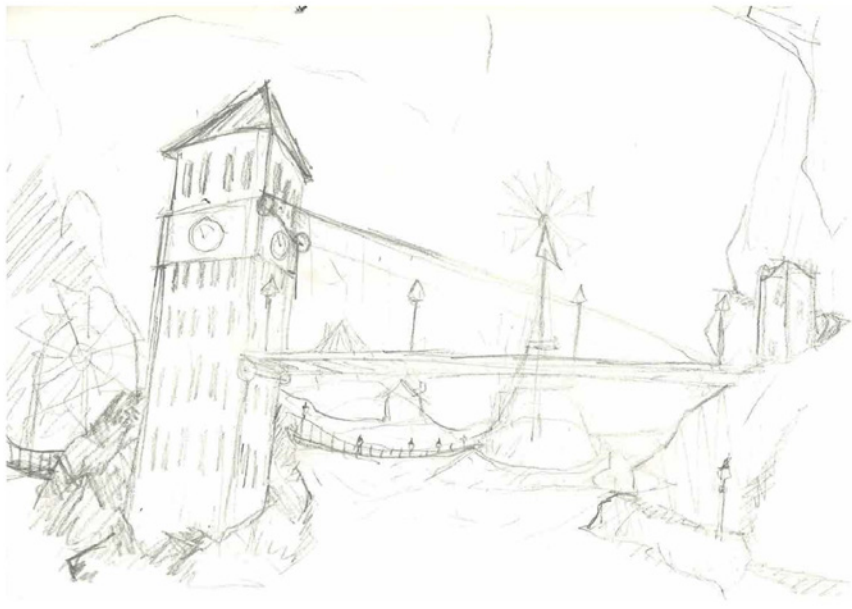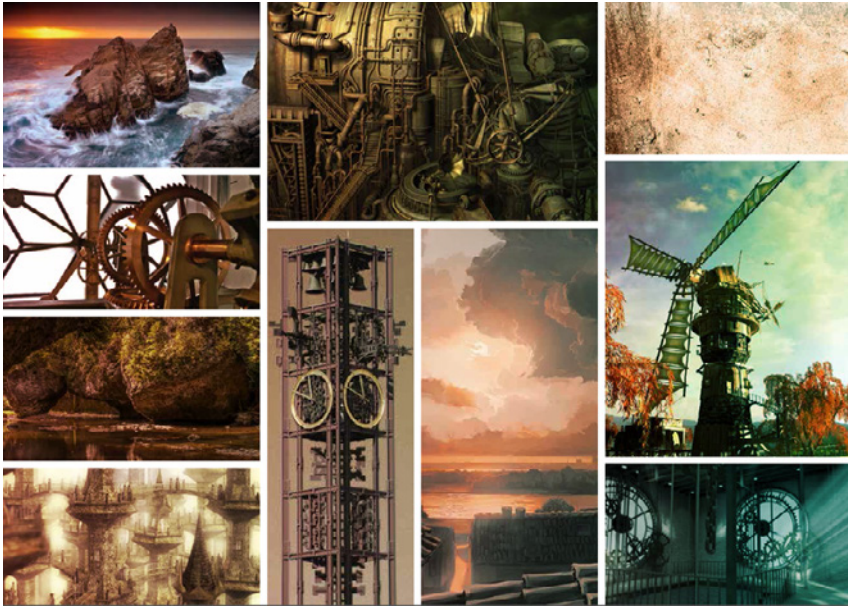
It violently divides into doom and salvation,
retribution and reward,what has been and what will be.

An abyss appears in the middle of its body
between what instantly become two foreign shores.

Life on one shore,death on the other,
Here hope and there despair.

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A. van der Linden (2013)

Inspiration

C. van Vreden (2015)

A. Mostart (2013)

Inspiration

S. Bouten (2006)

M. Kooijman (2014)

Inspiration

J. Bos
(2008)

L. van Velzen (2008)
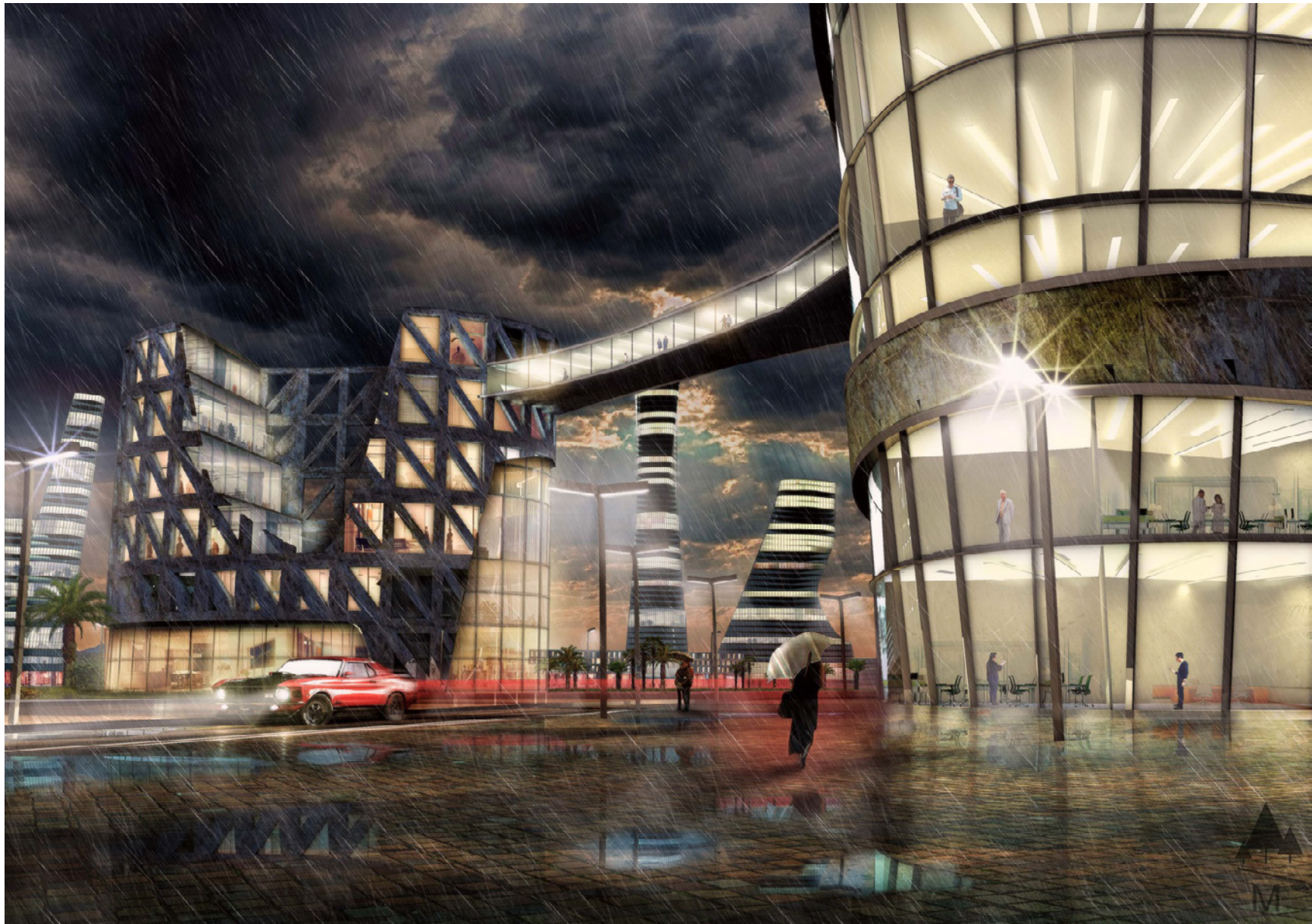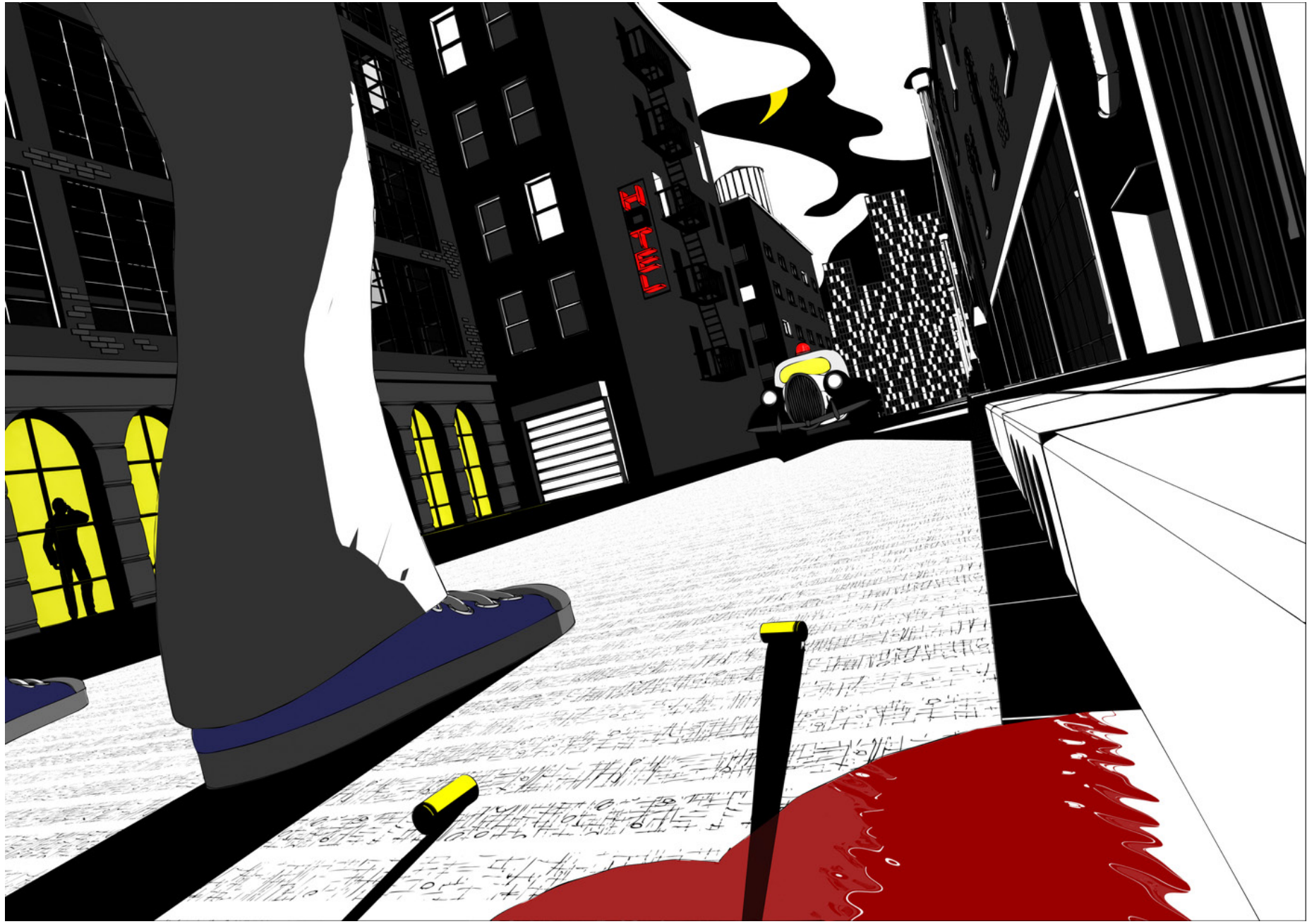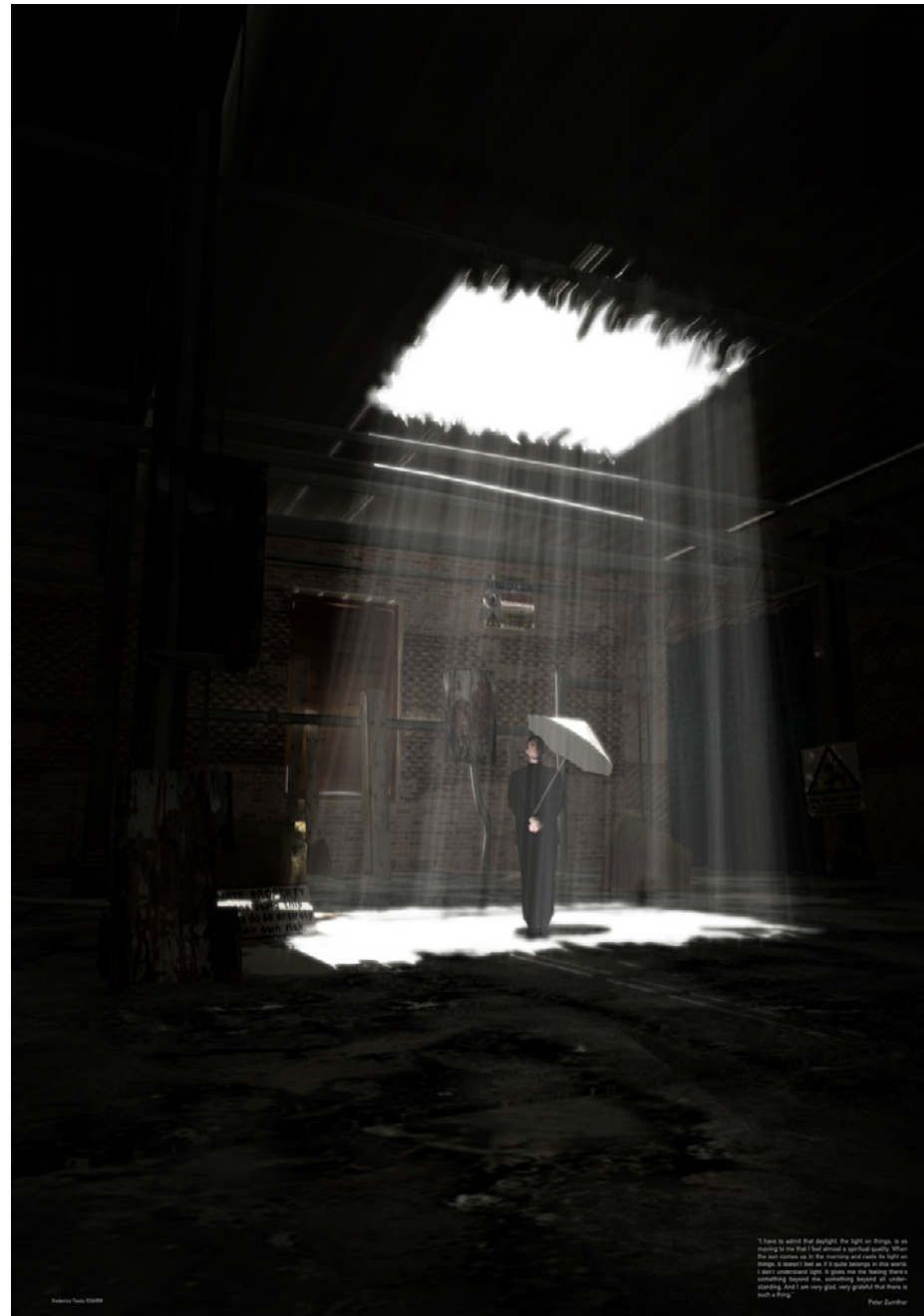
F. Testa (2007)

Inspiration

THE NIGHT HIDES A WORLD, BUT REVEALS A UNIVERSE · PERSIAN QUOTE
EDWARD REIJNDERS

E. Reijnders (2007)

X. Tian (2015)
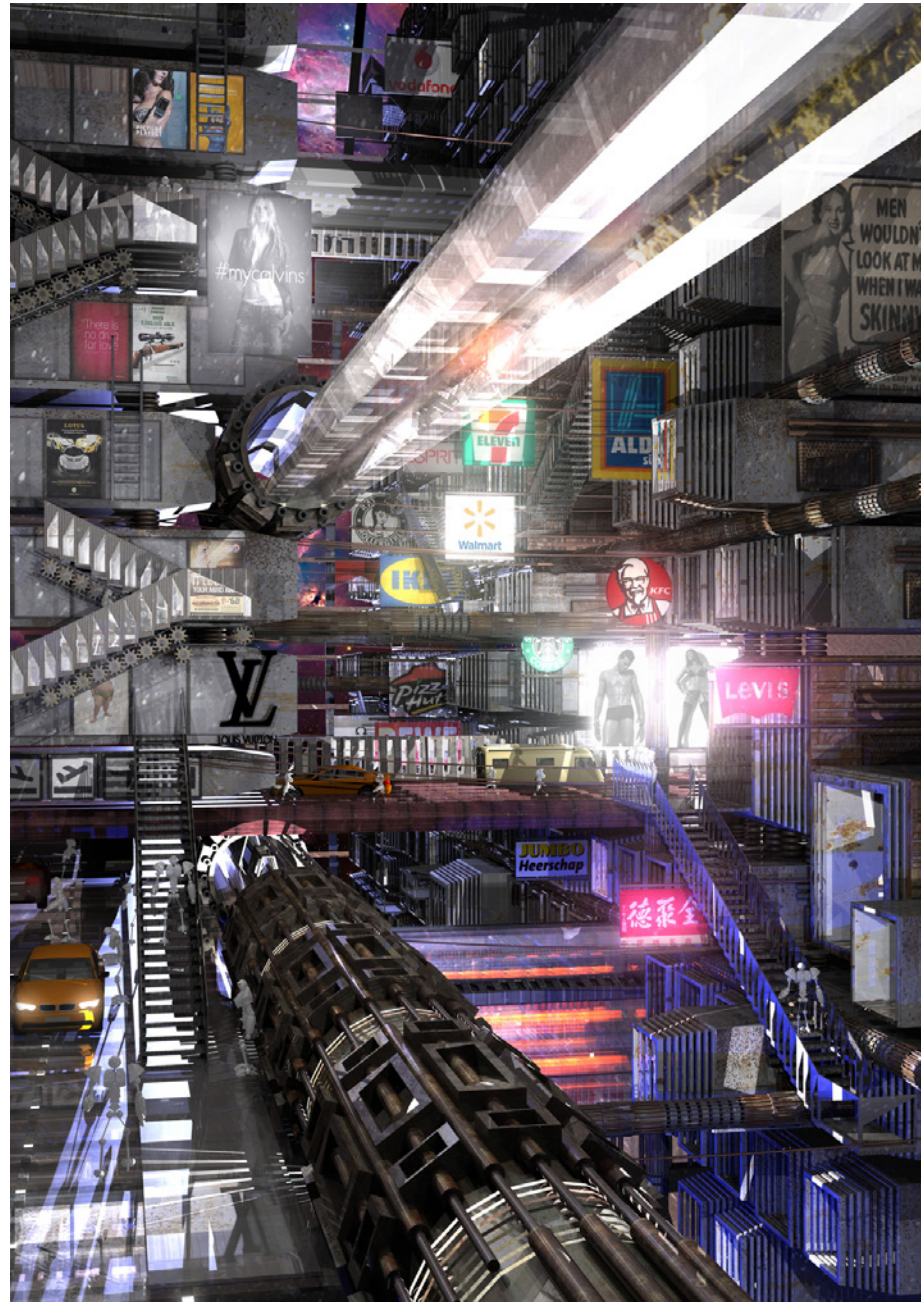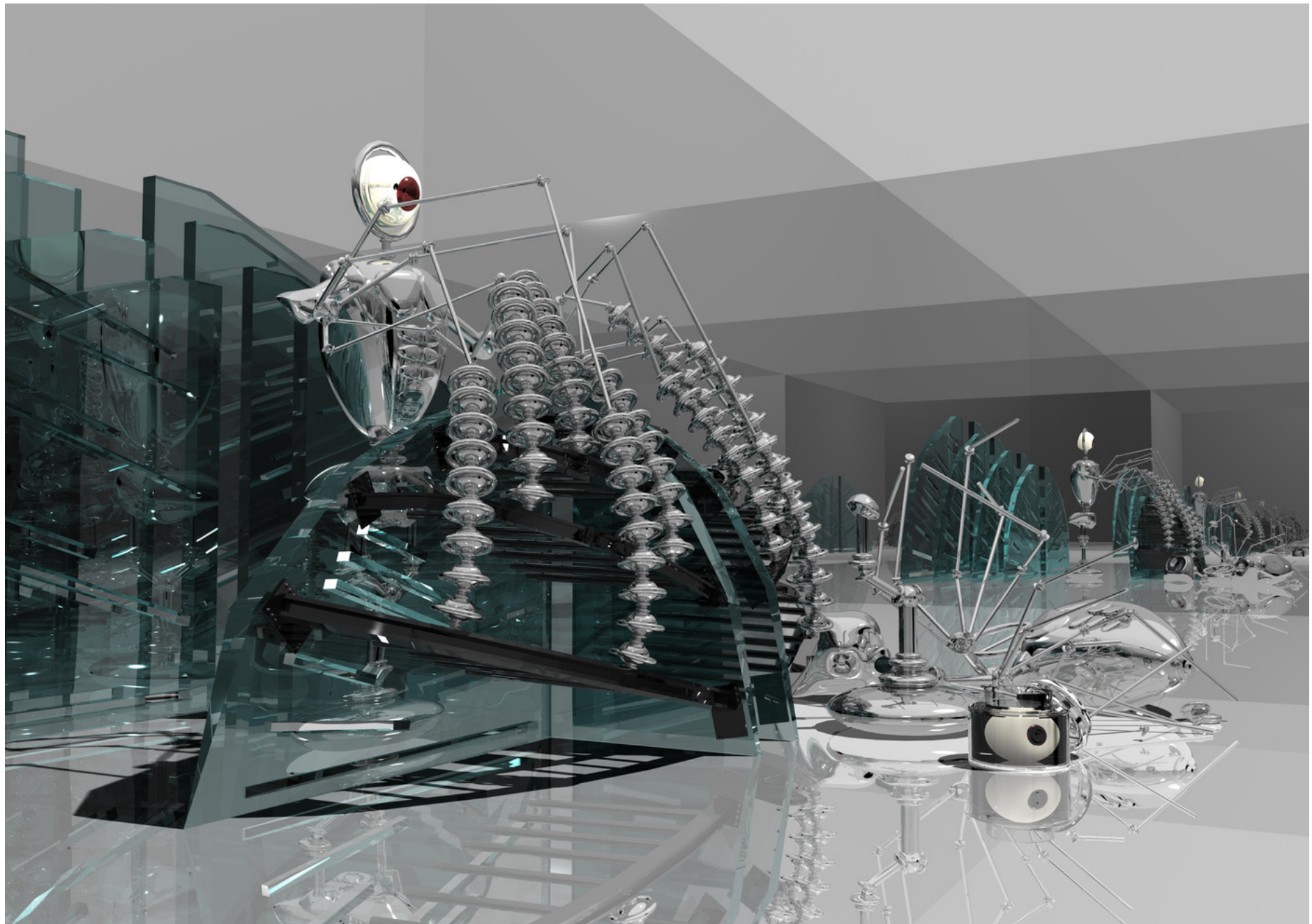
L van der Oort
(2008)

Inspiration

S. Poelman
(2015)

N. Nymoen
(2014)

E. Briliauskaitė (2015)