DRAWBOT

Micky Faas, Koen Putman

Leiden University - LIACS

March 15, 2018

Research question

Can we automate repetitive, tedious or precise tasks
in hand-made artwork using some kind of robot?
Can we do this is such a way that this robot
actually takes part in the creation process instead of
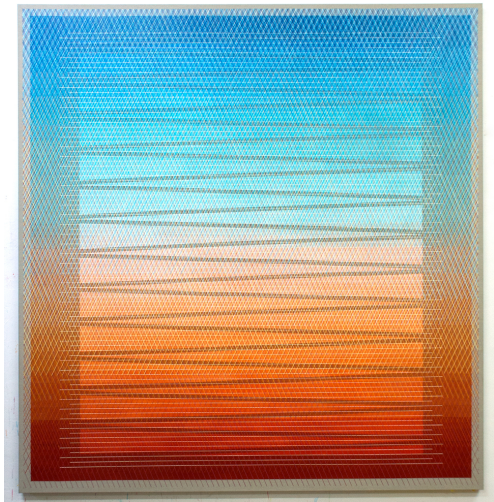being just a dumb plotting device?

In The Distance

Figure: Daniel Mullen. 200x190, Acrylic on canvas, 2018
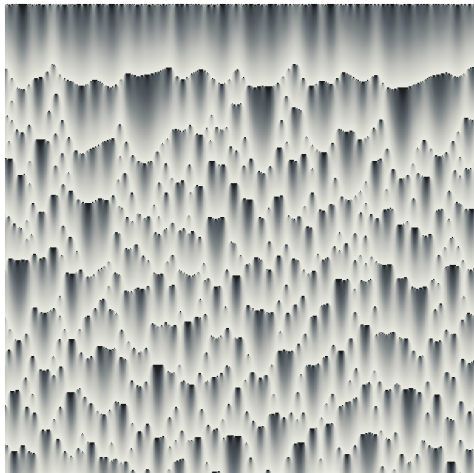
1D Continuous Cellular Automaton

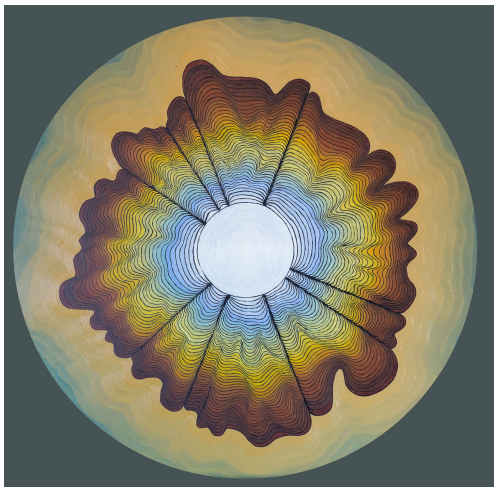Figure: Antonio Rueda Toicen

Algol

Figure: Micky. 50x50, Oil color on board, 2016

Concept/proposal

- Combine regular plotting with optical feedback
- Give the robot some degree of freedom
- Robot can extrapolate or improvise
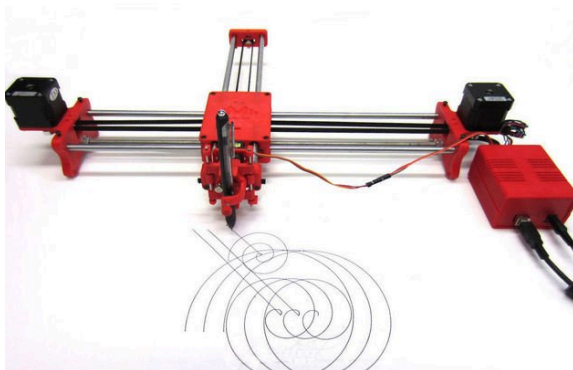
Example: CNC Drawing Robot

Figure: Henry Arnold, on Thingyverse.com

Example: Drawing Arm

Figure: Ming Zhang, on Thingyverse.com
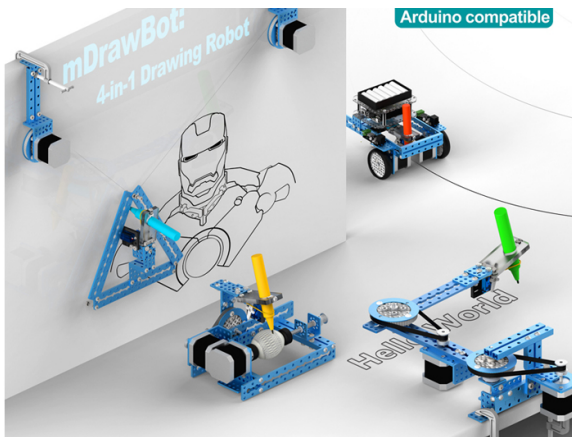
Example: Drawing Robot

Figure: Makeblock mDrawBot

Example: Vertical CNC

Figure: Maslow CNC

Goal

- Find the most suitable architecture
- Build a simple proof-of-concept
- Experiment with different rules or algorithms
- Operate the robot directly on the blackboard