

AI and Machine Art

Part of AI as a creative tool for Art – December 2017 Art research
project

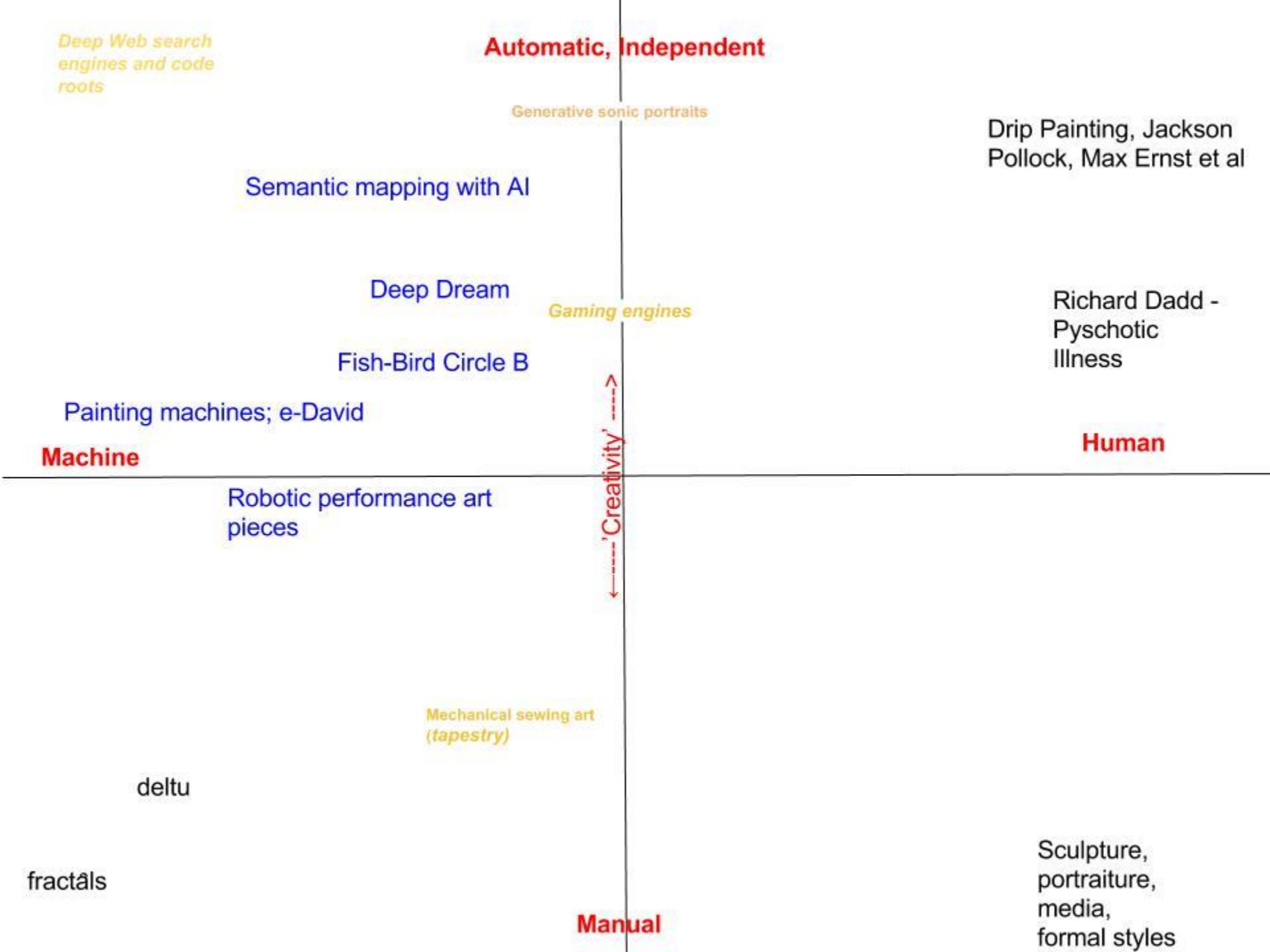
Machine Art with AI

Who is contributing the creativity?

Machine

Human

We will look at some mechanical examples, but are they self-learning?



Modeling and Evaluating the Process of Creating Paintings with Evolutionary Computing

Tomohiro Suzuki and Yasuhiro Suzuki developed an evolutionary painting algorithm, which takes example paintings of a given style and progressively mutates them – cutting and splicing and flipping elements

Modeling and Evaluating the Process of Creating Paintings with Evolutionary Computing Tomohiro Suzuki and Yasuhiro Suzuki

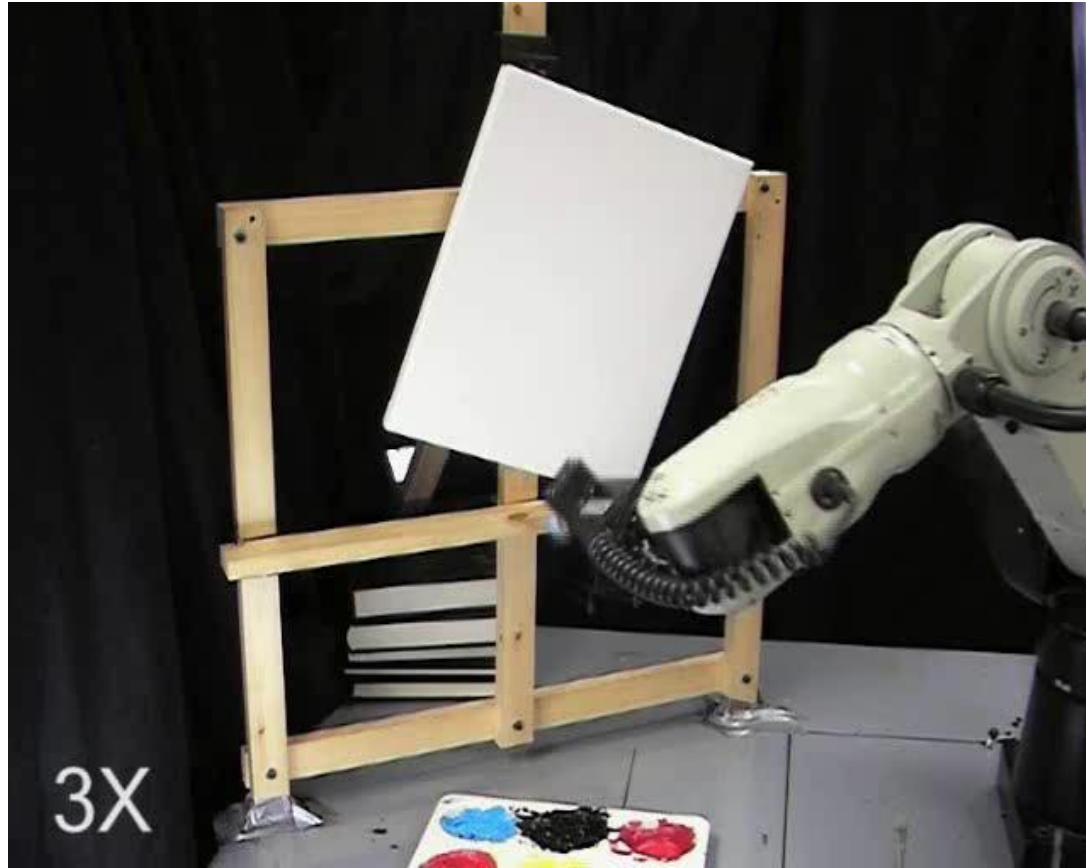
This is not true AI.

Benjamin Grosser –painting machine

<https://vimeo.com/23998286>



Robot Art Competition



RobotArt – the \$100,000 Robot Art competition!

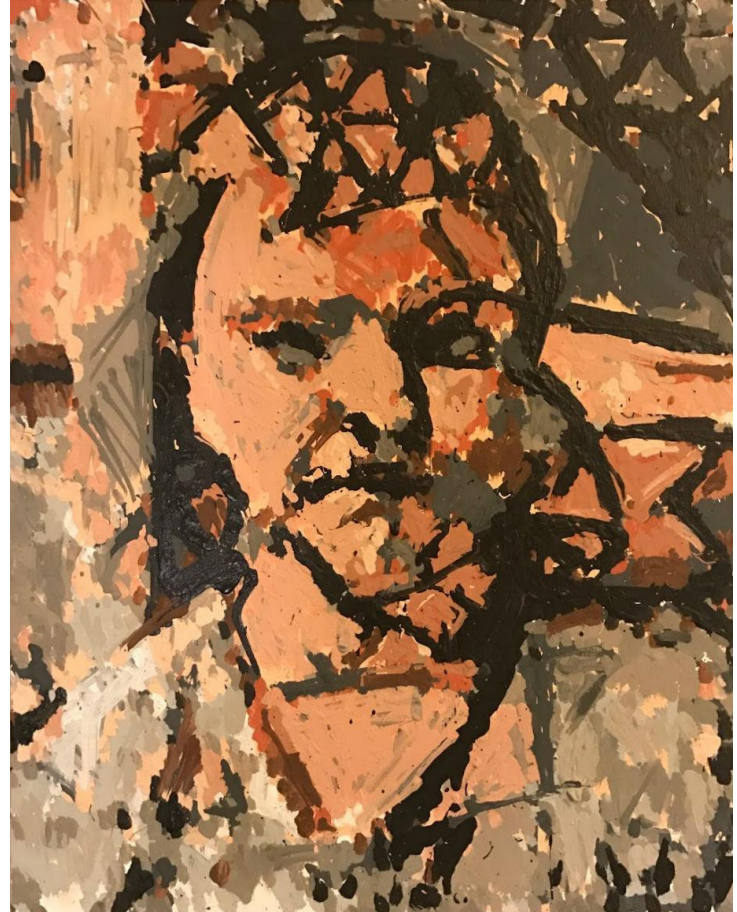
The 2018 “3rd Annual” International Robotic Art Competition with \$100,000 in cash prizes is now open for team registration. The contest’s goal is to challenge teams to produce something visually beautiful with robotics – that is, to have a robot use physical brushes and paint to create an artwork.

One of the entrants:

Hunter 2017 (Deep Learning Abstract Portraiture)

<https://youtu.be/GrEttzMCneo>

Robot Art Competition winner 2016



Not Just Painting Machines...

https://youtu.be/_sUeGC-8dyk

Drones playing instruments

<https://youtu.be/CG5kcBtd9zl>

Fish-Bird Circle B – Movement C by Dr Mari Velonaki

We must still see these as examples of

No Human, Just Machine

You see this, most notably, in the Google Search engine, where the rise of neural networks means that humans play less of a role—or, at least, humans are farther removed from the engine's final decisions. It's not just following rules that human engineers tell it to follow.

Microsoft: The IK Prize 2016



e-David

Oliver Deussen and Thomas Lindemeier University of Konstanz,
Germany

<https://vimeo.com/68859229>



Professor Simon Colton

Colton describes one example where the software downloaded a news story on the war in Afghanistan and identified keywords that it used to find relevant images on Flickr. The Painting Fool then developed a painterly rendition of these images in a collage, juxtaposing a fighter plane with an explosion, a family, an Afghan girl, and a field of war graves.



Short clip Prof. Colton

http://www.thepaintingfool.com/news/BBCHorizon_April2012.mov

See how hard it becomes to judge Human or Machine in the work.

Still not actual self-learning...