Deep Learning and the Art

Talk at the

Al&Art Pavilion Esch2022

Kick-off Meeting, 25 September 2020

Prof. Christoph Schommer

University Luxembourg
Faculty of Sciences, Technology, and Medicine
Department of Computer Science

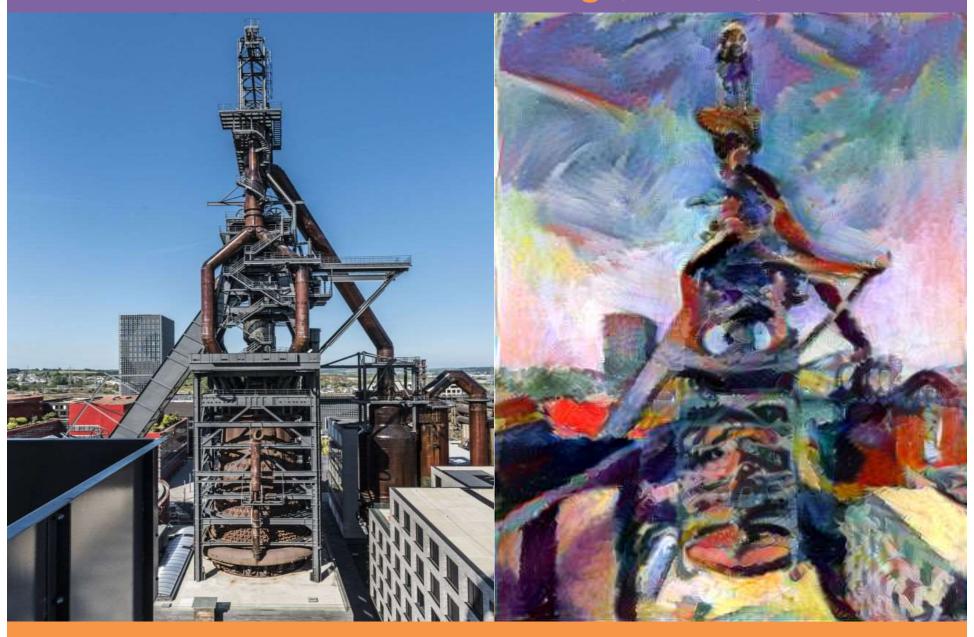
Head of ACC Lab and MINE Research Group

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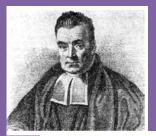


Course: "Machine Learning", MICS3, 2019



Many thanks to Jiaqin, Jingjing, Mei, and Ze!!

A.I. History (selection)









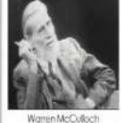




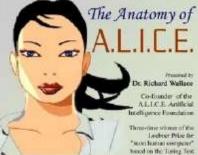








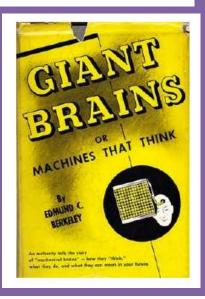




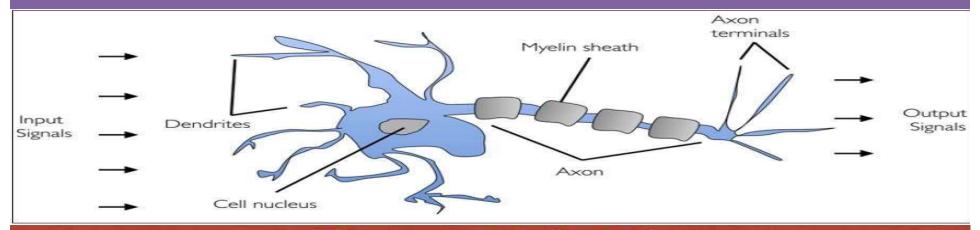




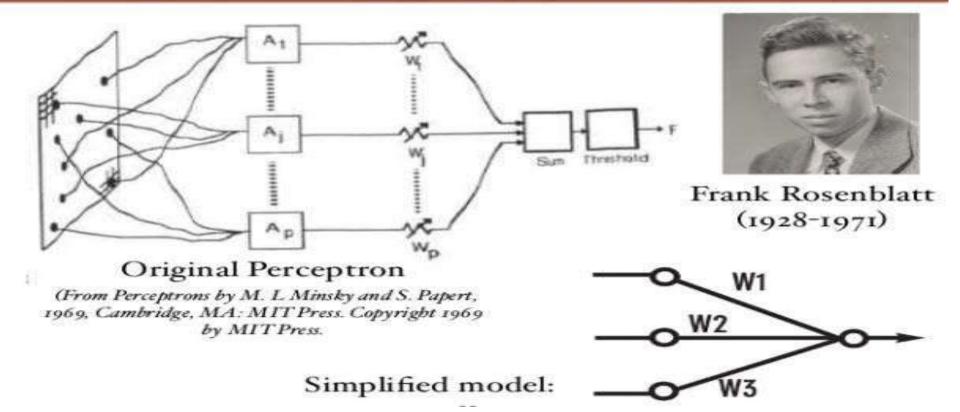




A.I. History: Artificial Neural Networks



Perceptron (1957)



Harold Cohen and AARON, the machine



https://www.nytimes.com/2016/05/07/arts/design/harold-cohen-a-pioneer-of-computer-generated-art-dies-at-87.html

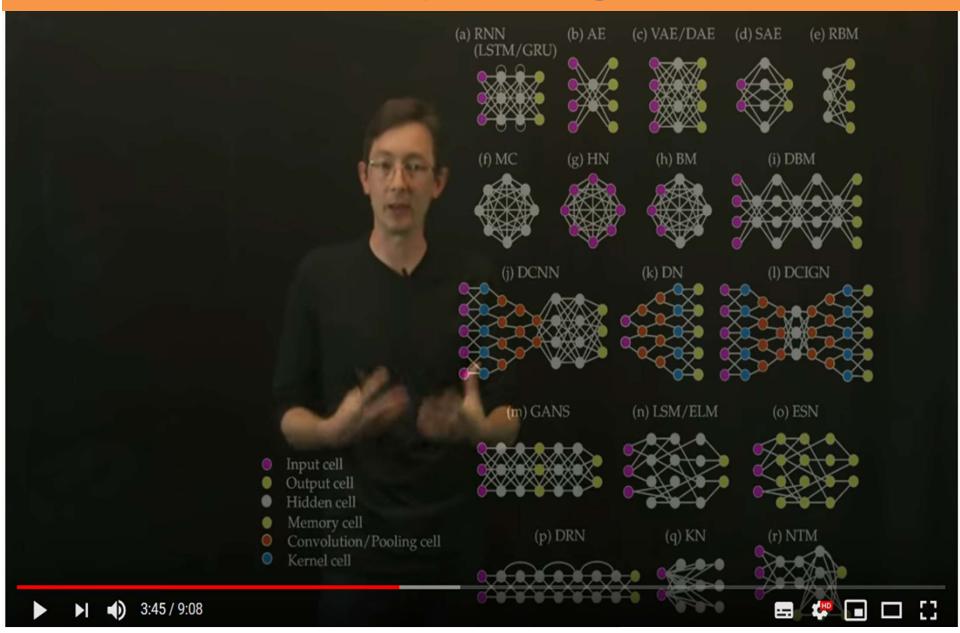
"The Painting Fool" by Simon Colton



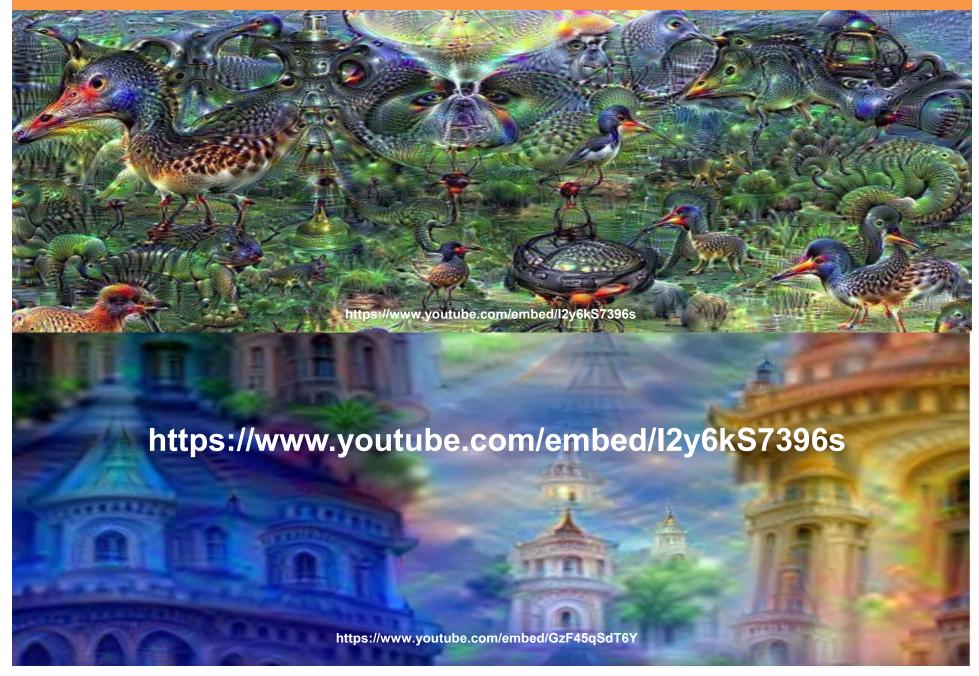
Rather than simply being able to converse in a convincingly human manner (as Turing proposed), an "artificially intelligent artist would have to behave in ways that were skillful, appreciative, and imaginative".



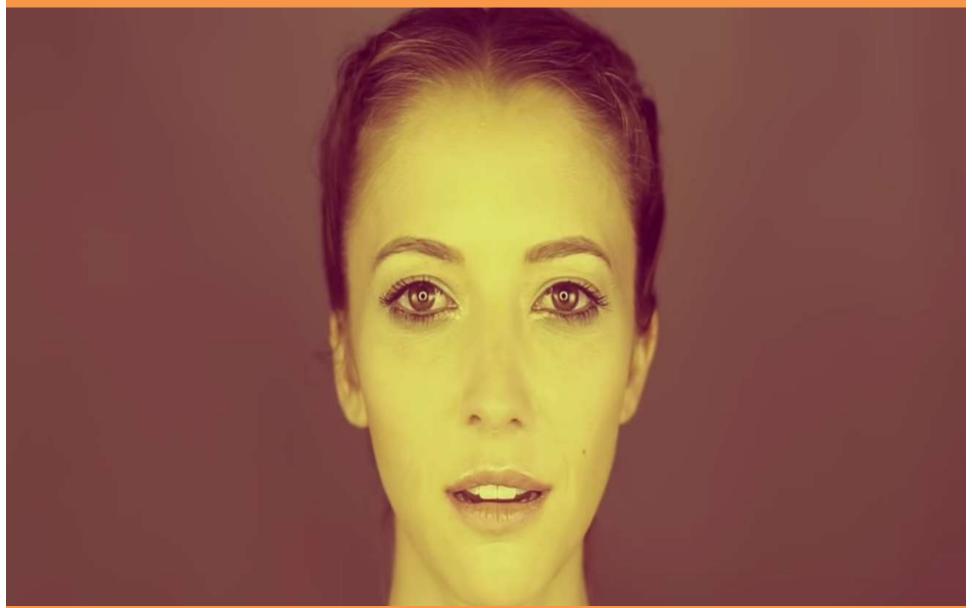
Deep Learning



Have a Deep Dream!



"Break Free" by Taryn Southern, but "Made in Al"



https://www.youtube.com/embed/XUs6CznN8pw

Break Free - Song Composed with AI | Taryn Southern

Jimmy Fallon: singing with Sophia, the robot

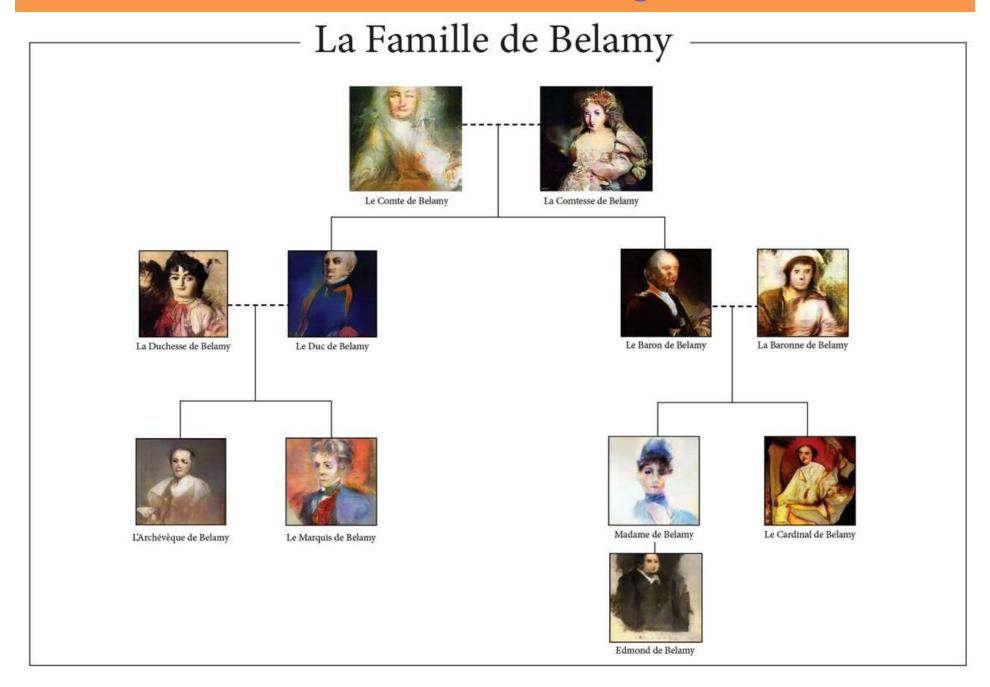


https://www.youtube.com/embed/9Zq4FJXTCqk

When Al generated paintings dance to music...



Al-based Painting



Al-based Painting

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Price realised ①
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Estimate (1)

USD 7,000 - USD 10,000

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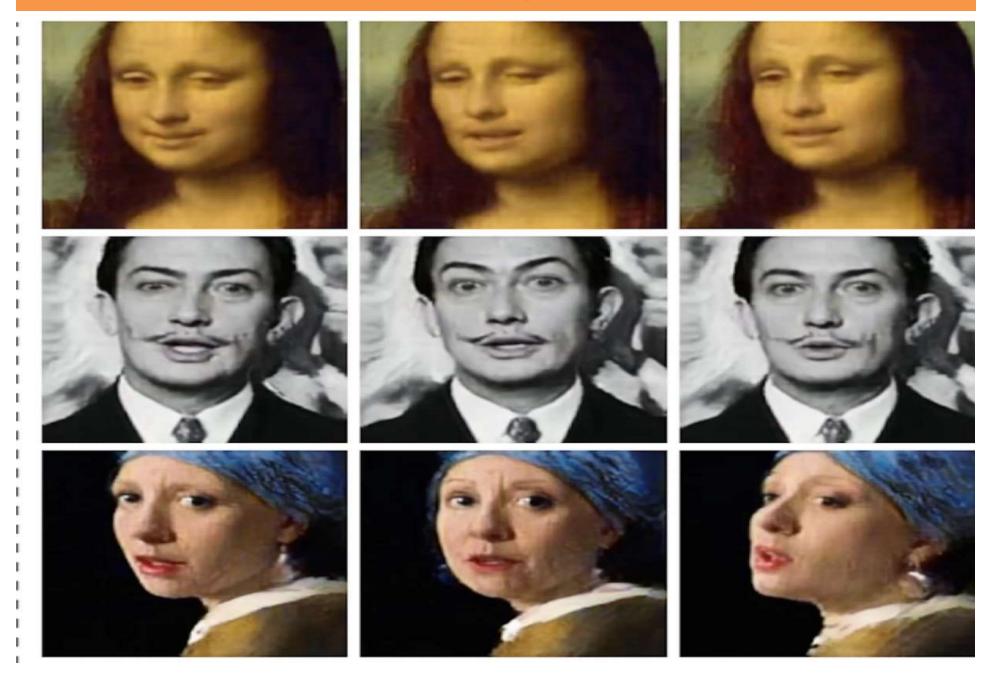


Artist: Obvious Medium: Ink

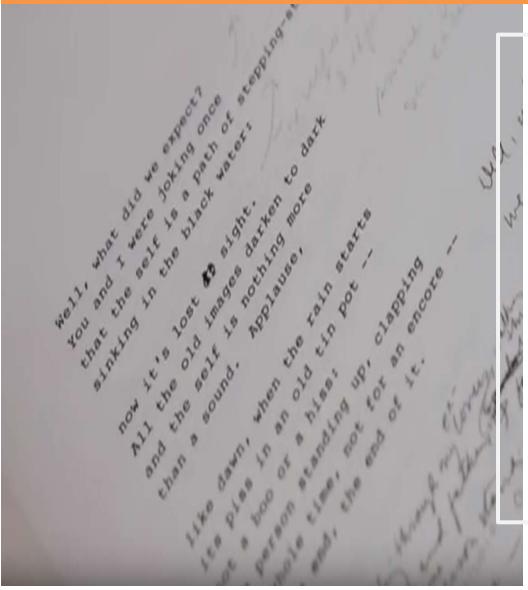
Subject: Male portrait
Dimensions: 70cm × 70cm

Al and Deep Fakes

Source: futurezone.at



Can Al write poetry?



I wanna be a little kid again.
I'm feeling kinda empty on the low.
You should unwind a little now and then.
Team Stacie looking like a sleepy hoe.

Back to the Sunshine State. The devil is a lie. I hate myself a lot sometimes, I mean, possessive, holy shit, this is the second time. I'm always catching dimes.

I'm not the only one, I'm pinning this again. I love a windy sunny day.
Not coming out until tonight. I miss the happy me. I gotta find a way.

I always fall into the bullshit. Why? Socks on in bed—the devil is a lie.

- https://www.youtube.com/embed/WGt8MkeGpNA 4min 55 sec
- https://www.newyorker.com/culture/annals-of-inquiry/the-mechanical-muse

Google Arts & Culture: Serpentine Summer Party

(organised by Es Devlin)

https://www.youtube.com/embed/e-NUHlqmgUI



https://www.youtube.co m/embed/RVyh1ewep8 4

Performing Arts

with Mutaurwa Mapondera, Google Creative Lab

https://experiments.withgoogle.com/billtjonesai

Experiments with Google

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Experiments

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AI Experiments

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SUBMIT EXPERIMENT

Body, Movement, Language: Al Sketches With Bill T. Jones

May 2019 | By Bill T. Jones & Google Creative Lab

PoseNet experiments made in collaboration with one of America's most celebrated and important artists.

LAUNCH EXPERIMENT

GET THE CODE







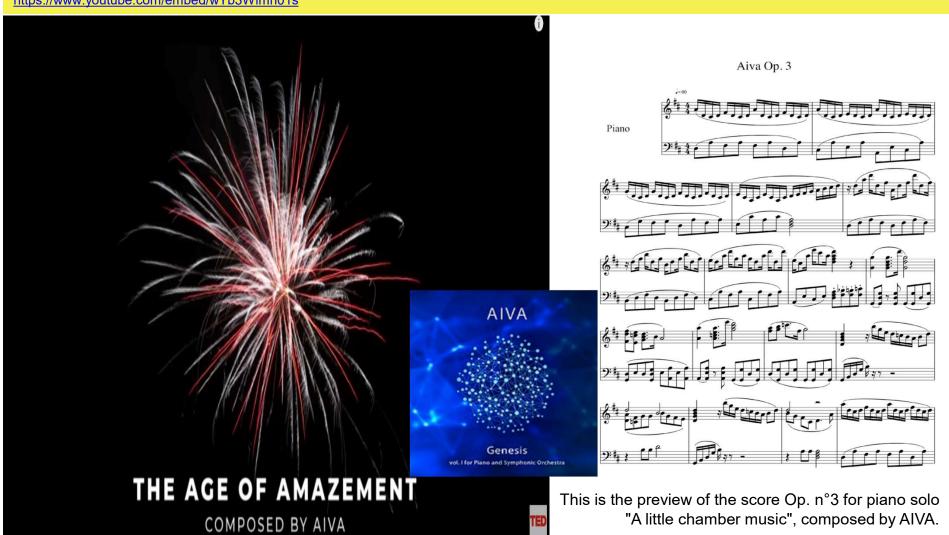
Charisma.ai

https://charisma.ai/projects



AIVA

https://www.youtube.com/embed/wYb3Wimn01s



Algorithmic Parfumery



The Al Painter

https://www.instapainting.com/ai-painter



GALLERY ▼ PRODUCTS & PRICING ▼ HELP FART

AI Painter

See your photo turned into artwork in seconds!

Neural Network Powered Photo to Painting

Last year we released the first free to use public demo based on the groundbreaking neural style transfer paper—just days after the first one was published!

Now you can preview our next iteration of the state of the art in computational artwork. **Our new tool allows you to see your photo turned into artwork in seconds**, and with just a few more clicks an artist can 100% physically paint it and ship it to your door too.

Our new technology is integrated into our instant artwork preview tool which you can launch below.

Launch Al Painter Artwork Tool



















Stephanie Dinkins



Wayne McGregor



Jay Bualamwini



Sofla Cresp



Mimi Onumber



Memo Akten



aryn Southern



Ross Goodwin



Sarah Meyahas



Mike Tyko



om White



Lauren McCarrby



Pindar Van Arma



Alexander Reben



Jake Elwes



David Young



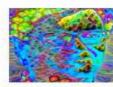
Daniel Ambrosi



Christian "Mia" tocla



Dariusz Gross



Gene Kogan

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