

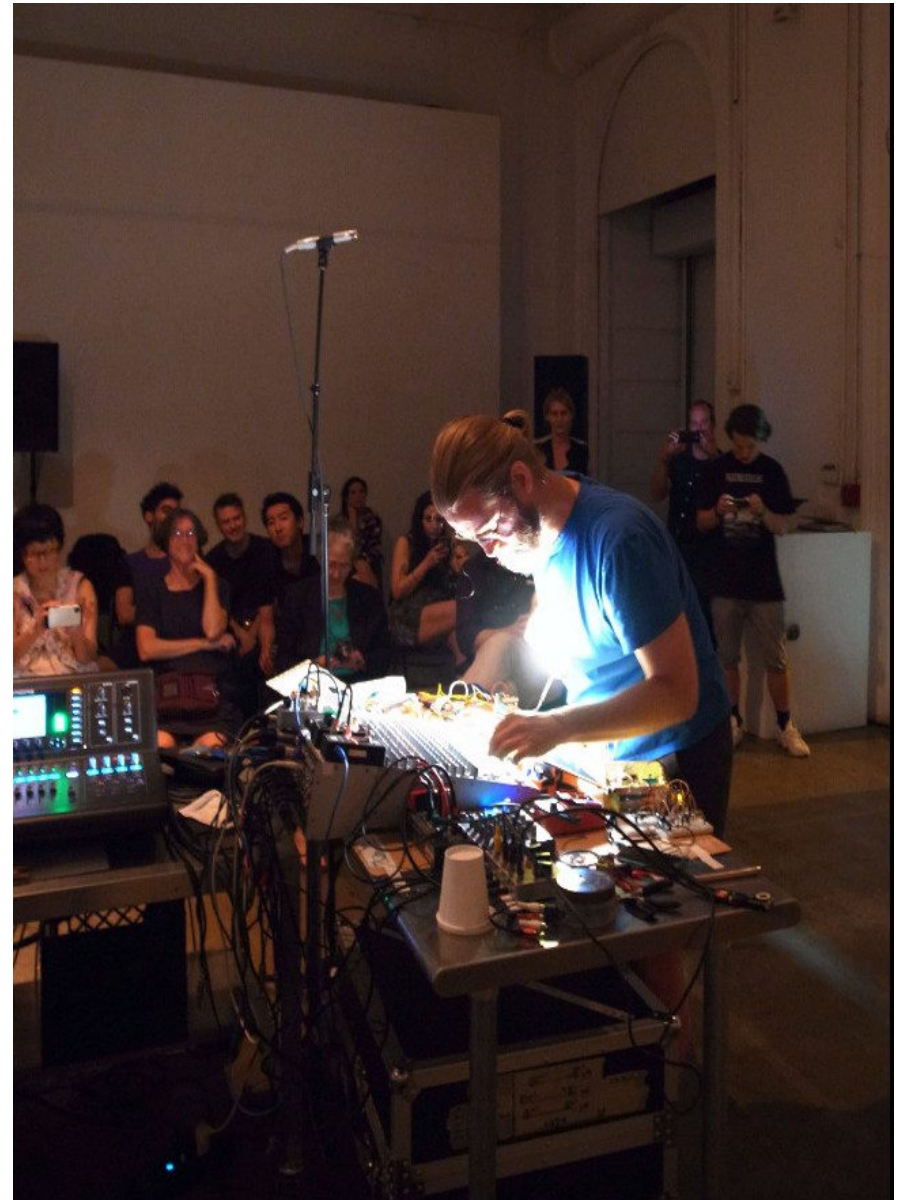
AI and Art – Jukka Hautamäki



MFA, visual arts.
BA, digital arts.

jukkahautamaki.com

jukhau@gmail.com



Curatorial work



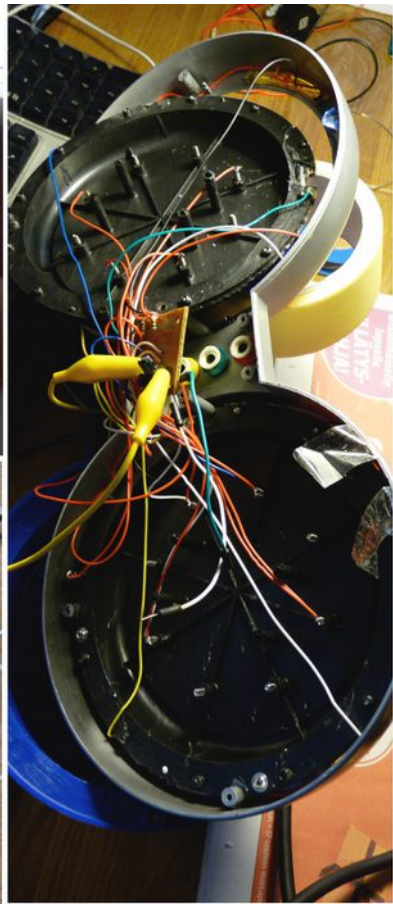
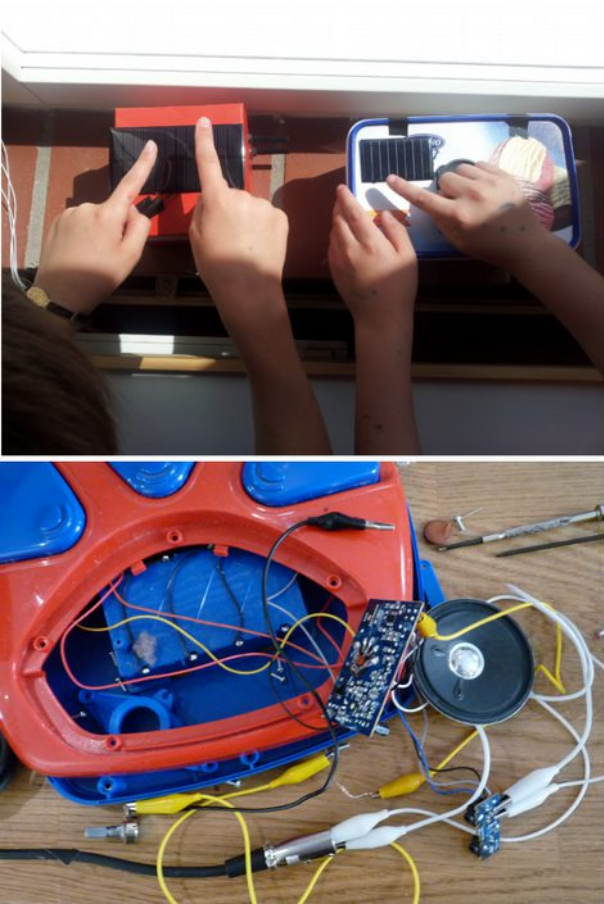
Takeover, Sculptor Gallery, Helsinki 2018

Curatorial work



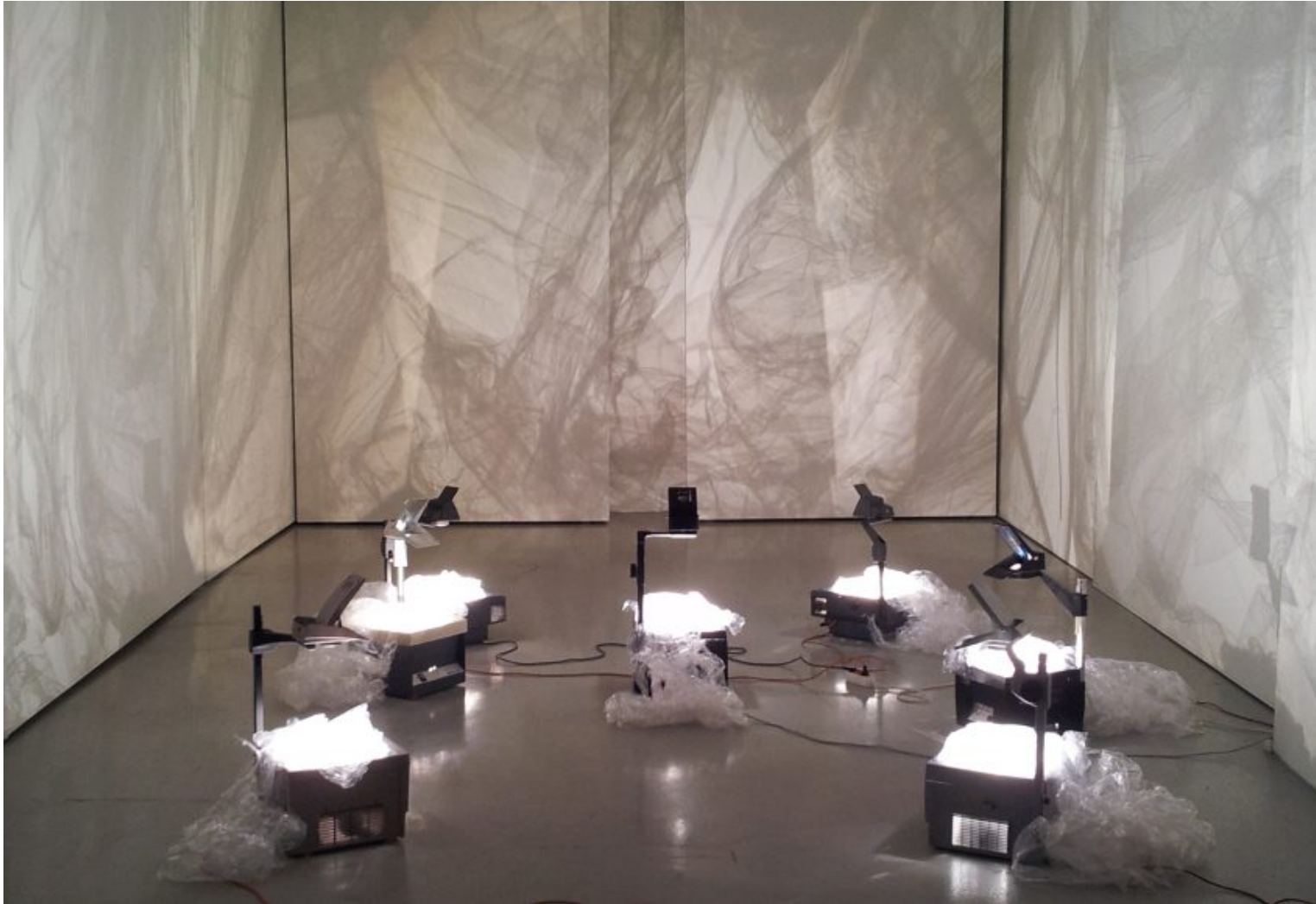
Enlightment - PVK, Oulu & MUU, Helsinki, 2018 - 2019

Workshops, courses



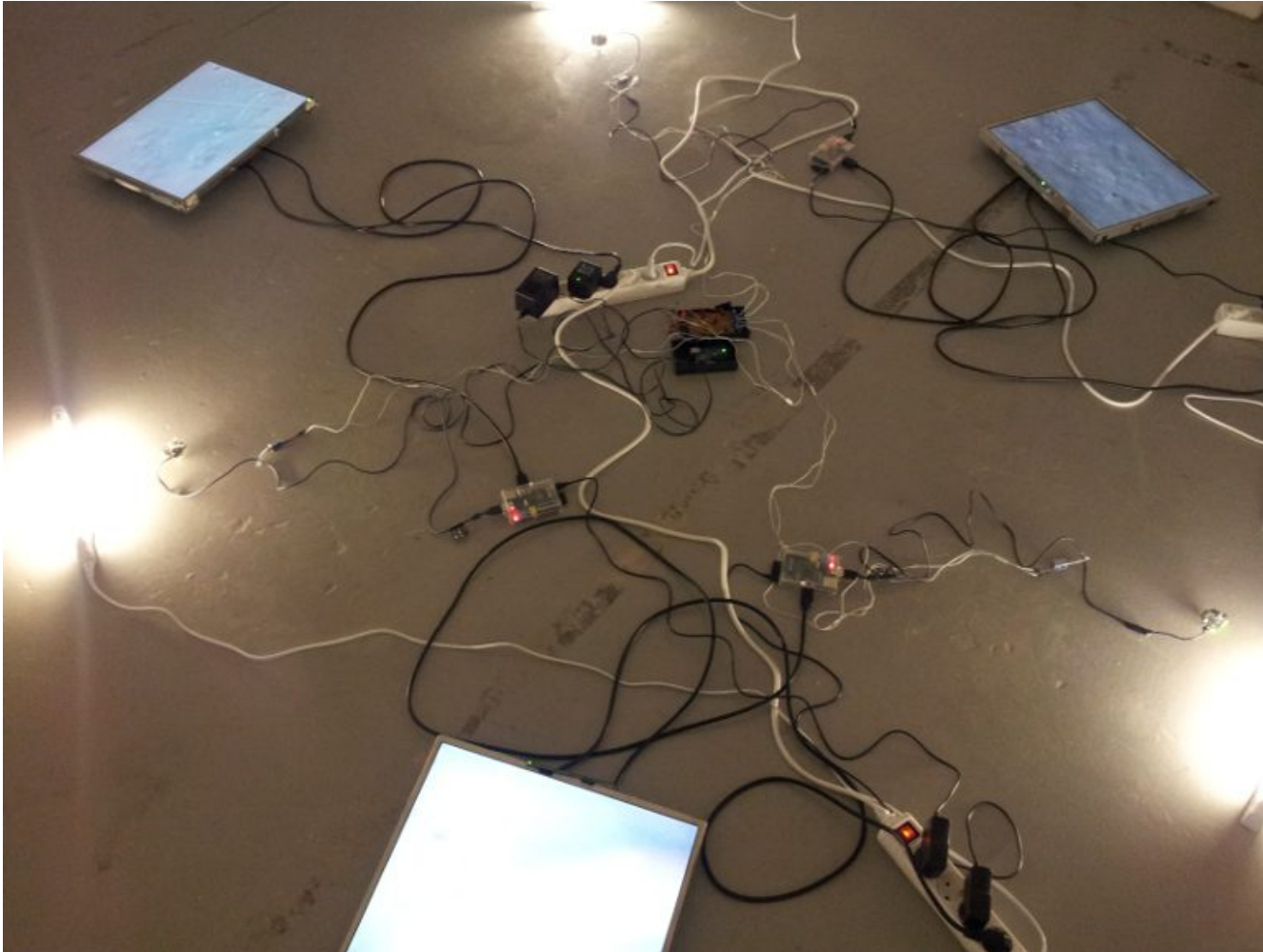
Workshops, courses: Aalto University, Kiasma, Art & Craft School Robotti, museums, festivals...

Installations – landscapes with light



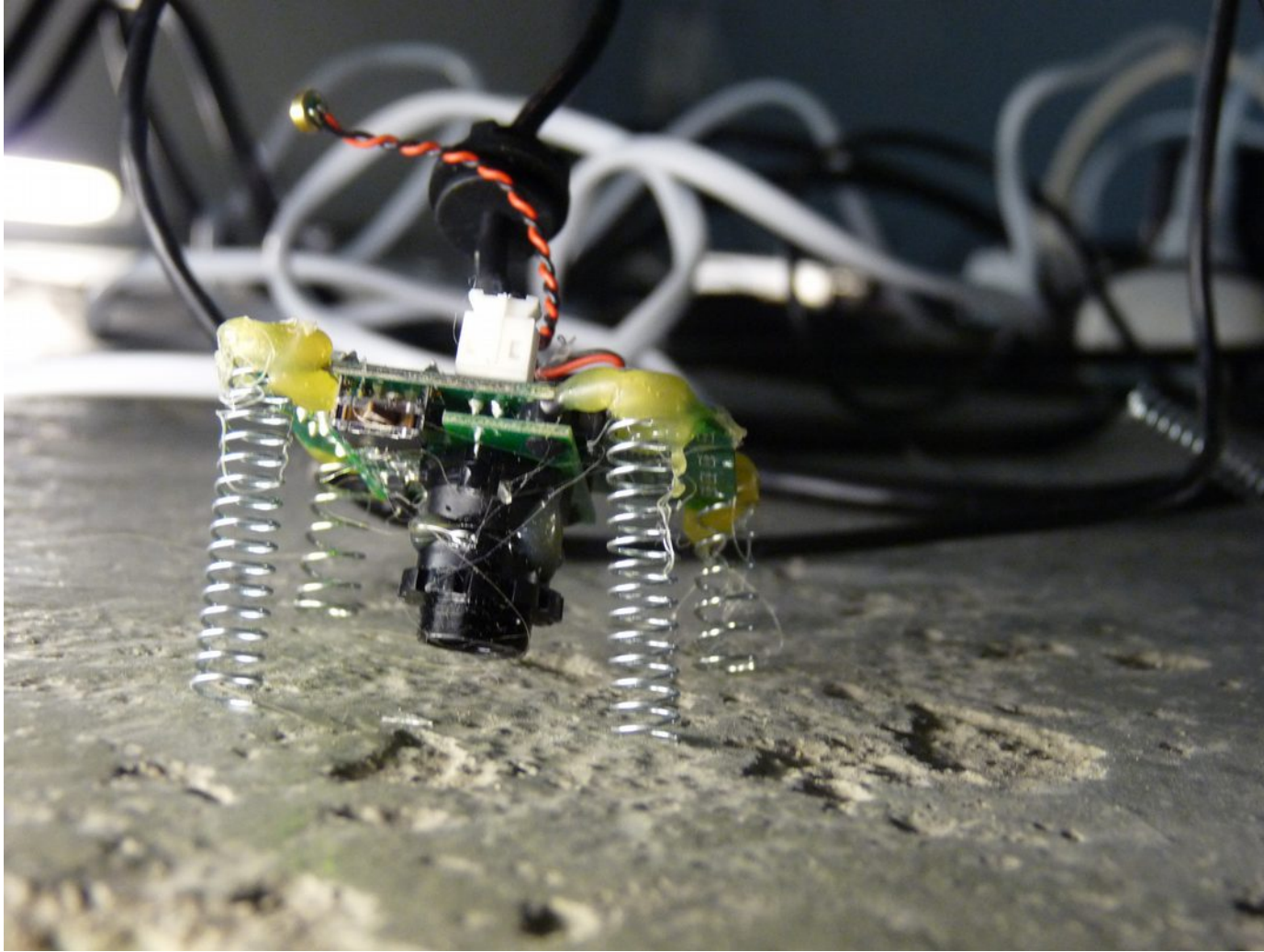
Instruo, mixed media, 2014.

Installations – showing invisible with technology



Crier, mixed media, 2014.

Installations – showing invisible with technology



Crier, mixed media, 2014.

Installations – showing invisible with technology



Crier, mixed media, 2014.

Installations – showing invisible with technology



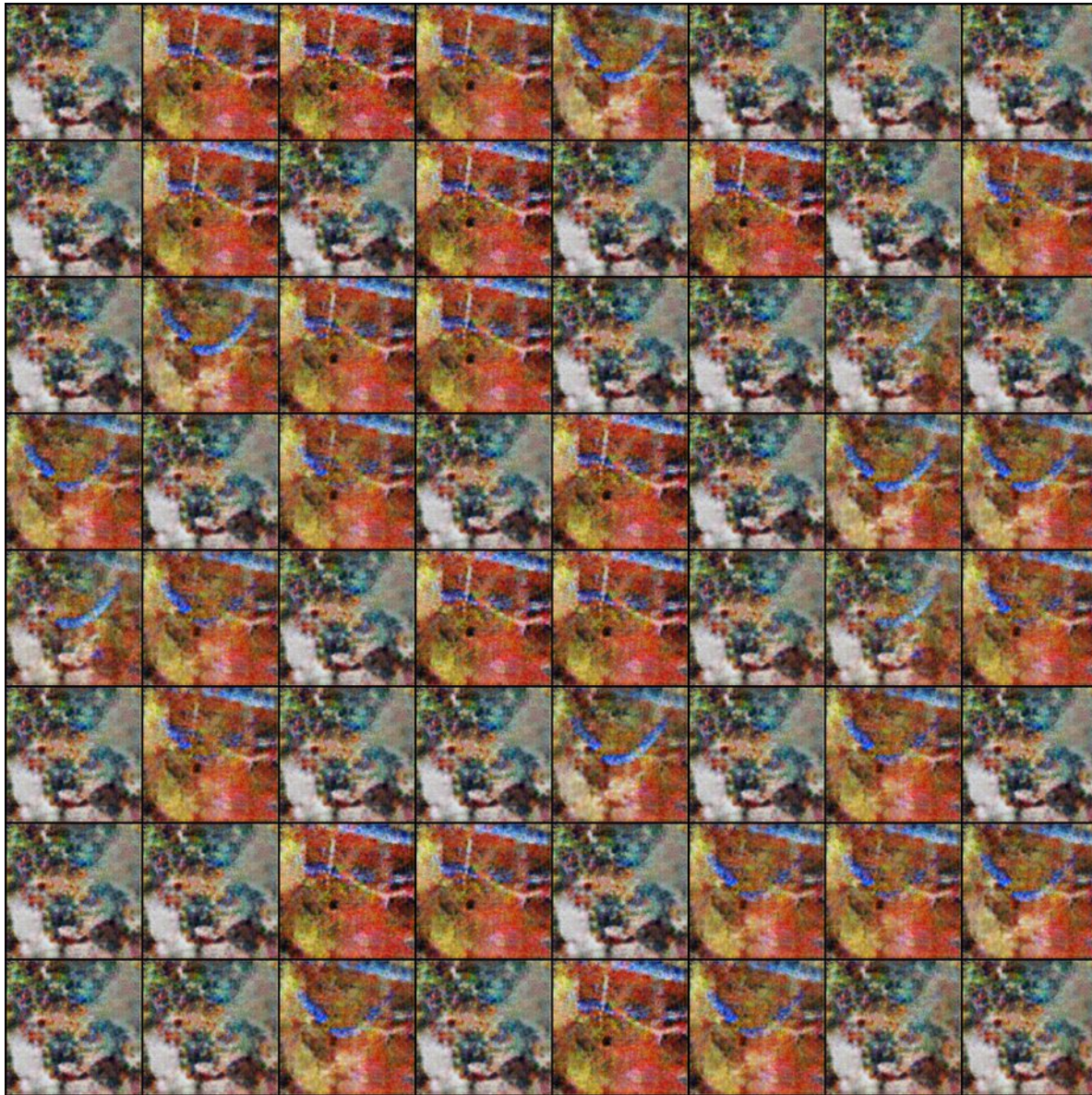
Conditio, mixed media, 2018.

Installations – showing invisible with technology

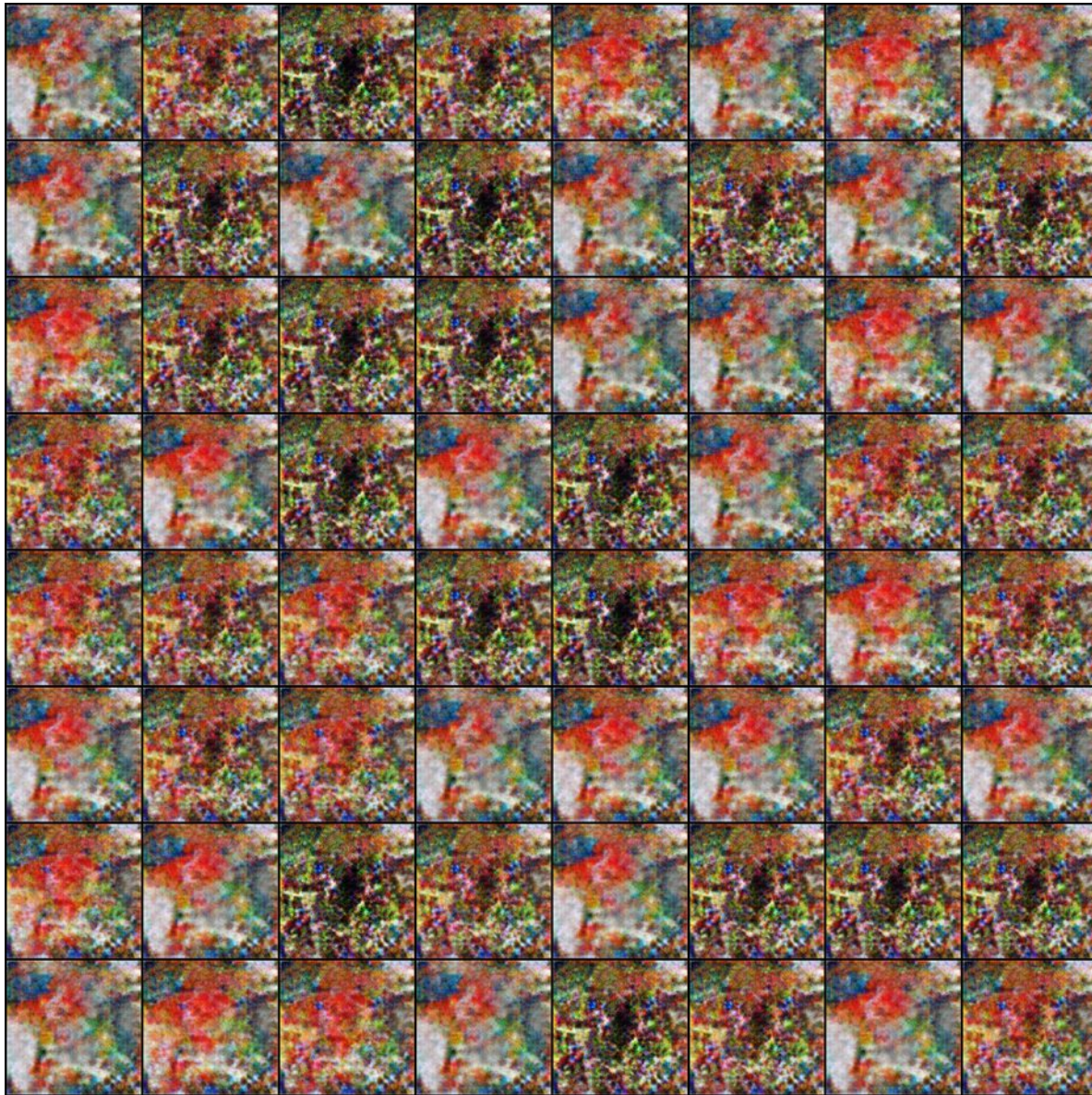


Conditio, mixed media, 2018.

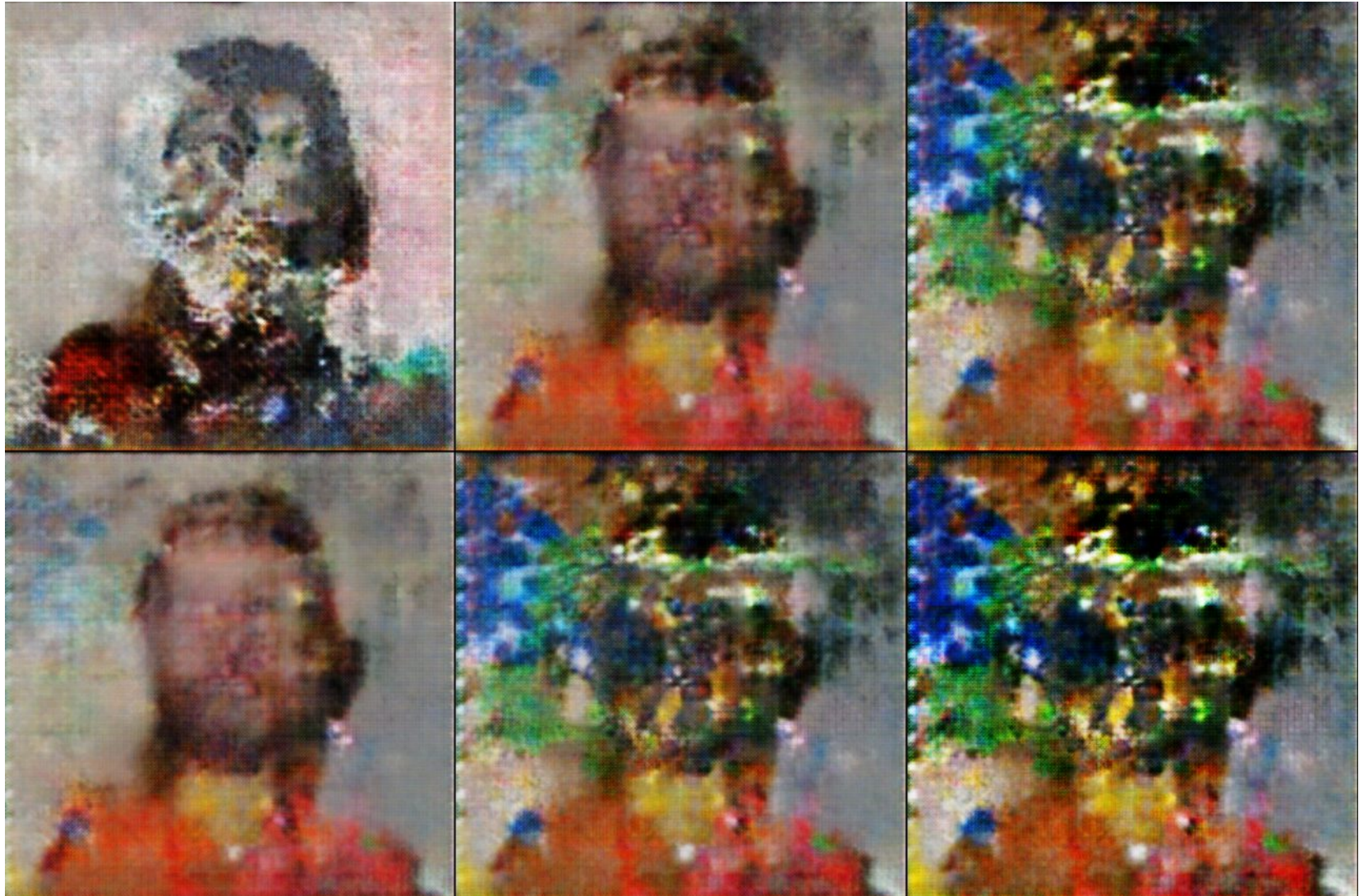
GAN – early experiments



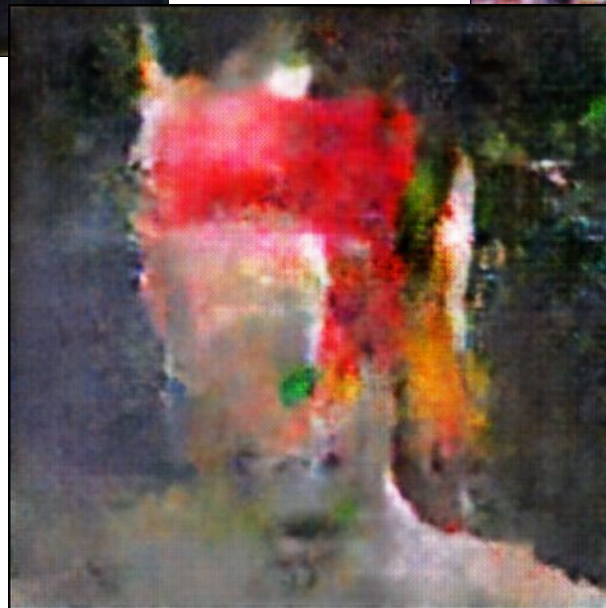
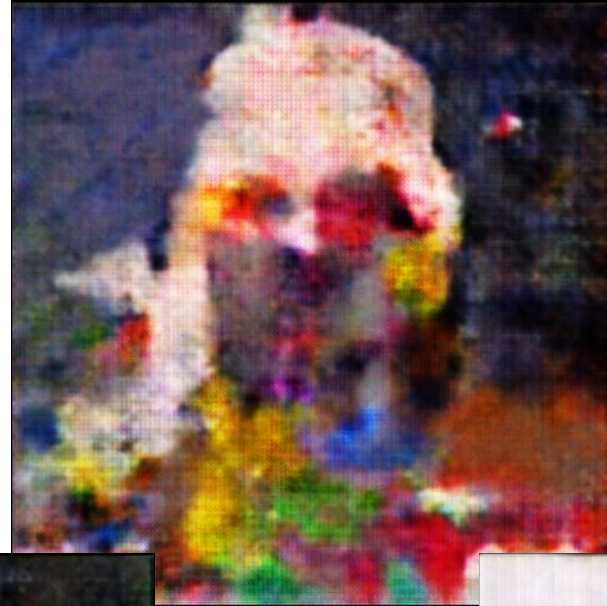
GAN – early experiments



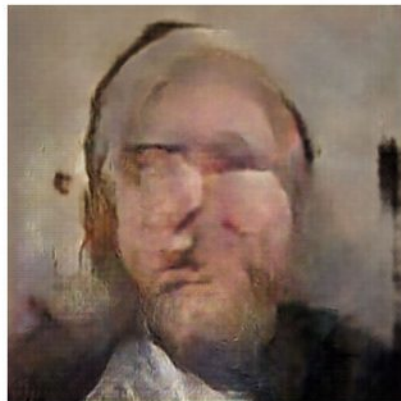
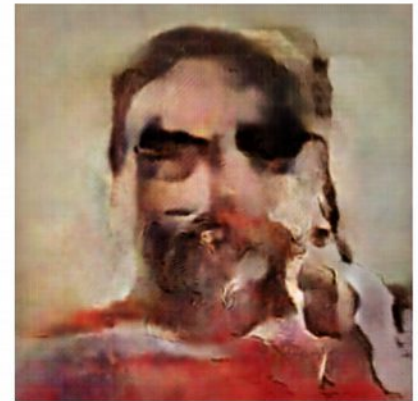
GAN – early experiments



GAN – early experiments



GAN – self-portraits



instagram: @jukhau

GAN – portraits



fake_samples_epoch_340_ne1x.png



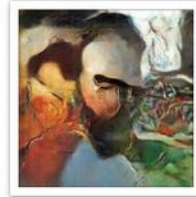
fake_samples_epoch_362_ne1x.png



fake_samples_epoch_846_ne1x_hieno.png



fake_samples_epoch_848_ne1x.png



fake_samples_epoch_849_ne1x.png



fake_samples_epoch_849b_ne1x.png



fake_samples_epoch_887_ne1x_hieno.png



fake_samples_epoch_865_ne1x_hieno.png



fake_samples_epoch_867_ne1x_hieno.png



fake_samples_epoch_869_ne1x_hieno.png



fake_samples_epoch_872_ne1x.png



fake_samples_epoch_875_ne1x.png



fake_samples_epoch_892_ne1x.png



fake_samples_epoch_894_ne1x.png



fake_samples_epoch_894b_ne1x.png



fake_samples_epoch_907_ne1x_hieno.png



fake_samples_epoch_150_ne1x.png



fake_samples_epoch_909_ne1x.png



fake_samples_epoch_916_ne1x_hieno.png



fake_samples_epoch_933_ne1x_hieno.png



fake_samples_epoch_916b_ne1x.png



fake_samples_epoch_934_ne1x.png



fake_samples_epoch_921_ne1x.png



fake_samples_epoch_922_ne1x.png

GAN – portraits



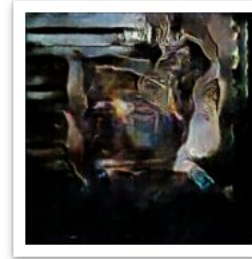
koulutus_gan_mix4_
403.png



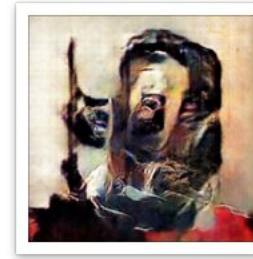
koulutus_gan_mix4_
405.png



koulutus_gan_mix4_
407_hieno.png



koulutus_gan_mix4_
757.png



koulutus_gan_mix4_
353_hieno.png



koulutus_gan_mix4_
372_hieno.png



koulutus_gan_mix4_
375.png



koulutus_gan_mix4_
383b.png



koulutus_gan_mix4_
385.png



koulutus_gan_mix4_
396a.png



koulutus_gan_mix4_
745.png



koulutus_gan_mix4_
755.png



koulutus_gan_mix4_
764_hieno.png

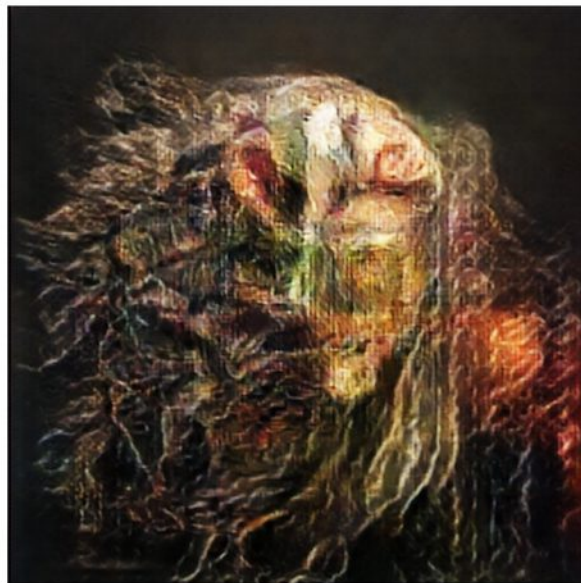
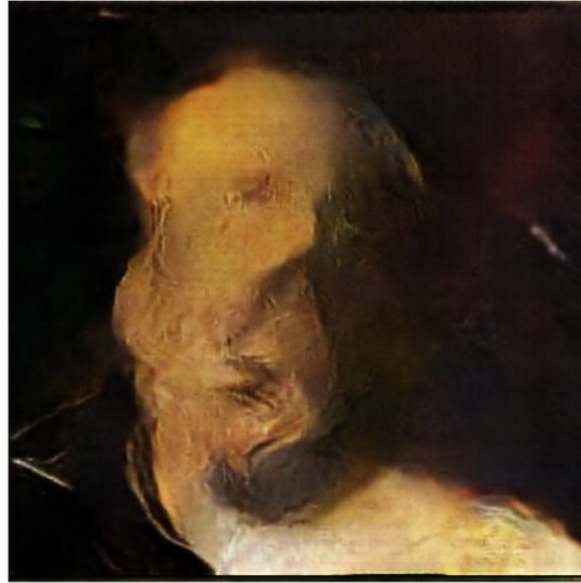


koulutus_gan_mix4_
764b_hieno.png



koulutus_gan_mix4_
772.png

GAN – portraits



GAN – movements



fake_samples_epoc
h_1054_solo3_1.png



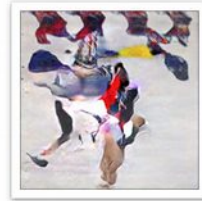
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fake_samples_epoc
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fake_samples_epoc
h_1058_solo3_1.png



fake_samples_epoc
h_1059_solo3_1.png



fake_samples_epoc
h_1060_solo3_1.png



fake_samples_epoc
h_1061_solo3_1.png



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fake_samples_epoc
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h_1064_solo3_1.png



fake_samples_epoc
h_1065_solo3_1.png



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h_1066_solo3_1.png



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h_1067_solo3_1.png



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fake_samples_epoc
h_1070_solo3_1.png



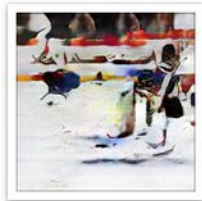
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h_1071_solo3_1.png



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fake_samples_epoc
h_1073_solo3_1.png



fake_samples_epoc
h_1074_solo3_1.png



fake_samples_epoc
h_1075_solo3_1.png



fake_samples_epoc
h_1076_solo3_1.png

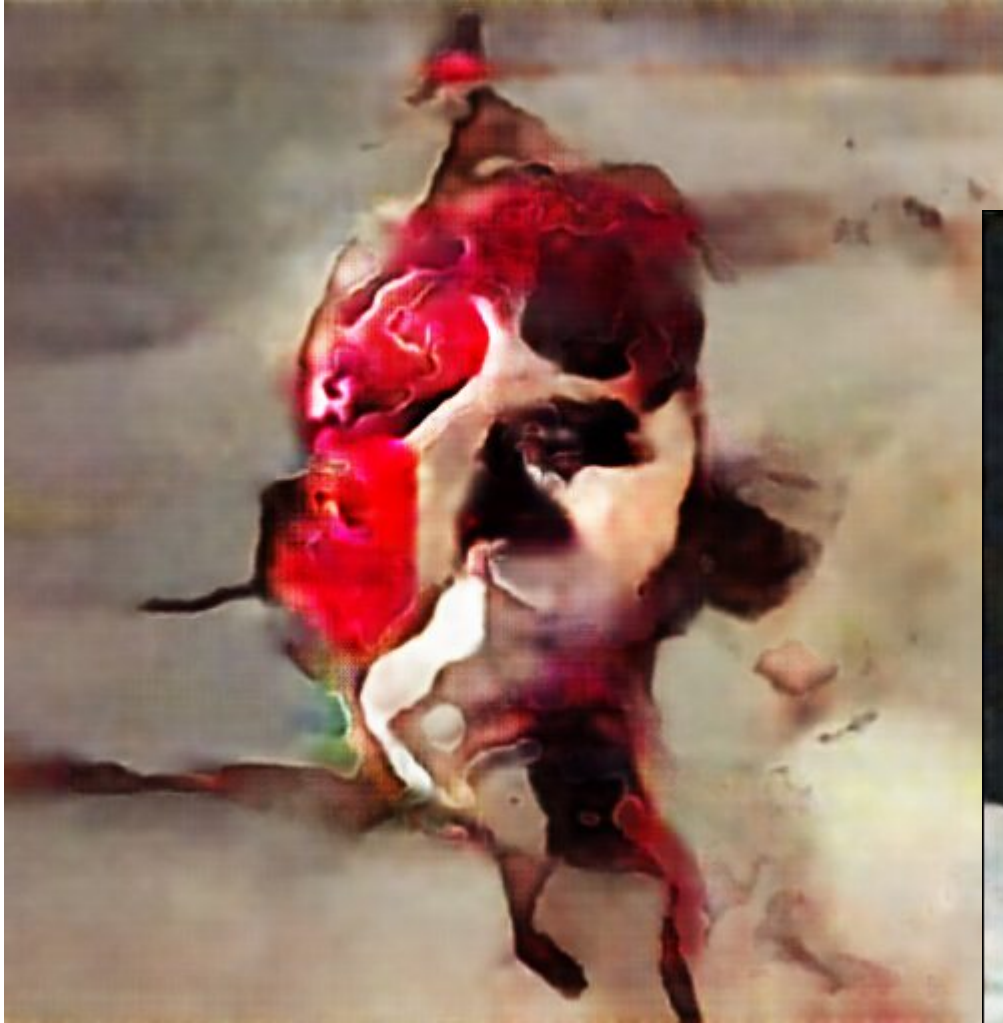


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h_1077_solo3_1.png

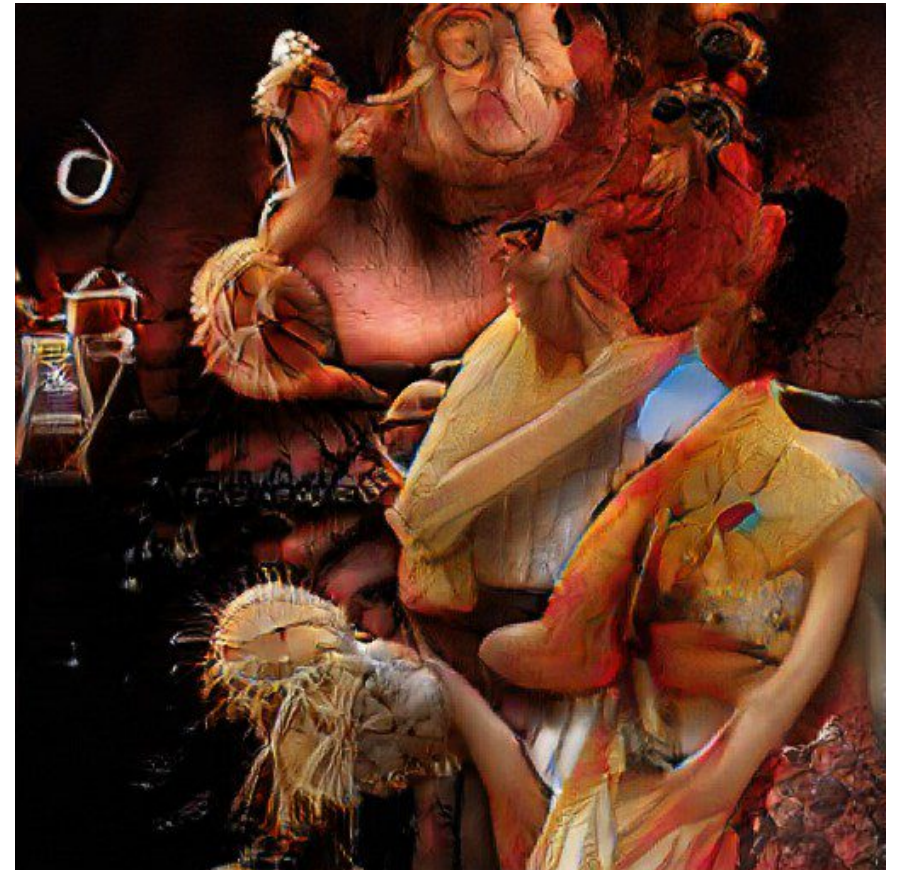
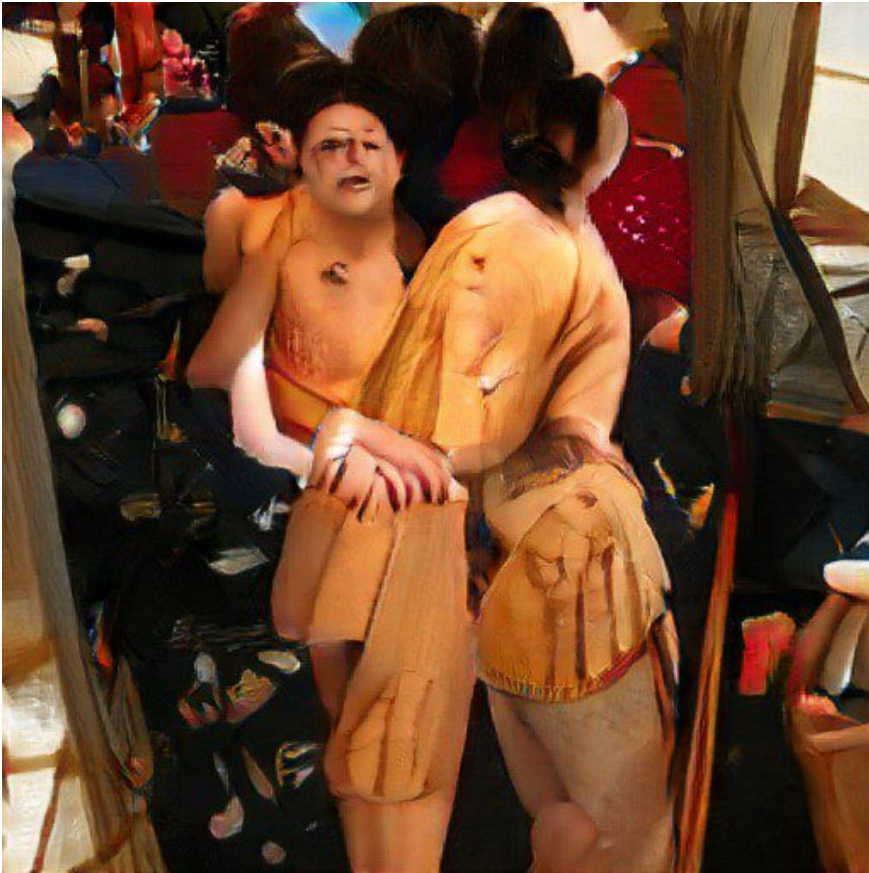
GAN – movements



GAN – movements



BigGAN – ganbreeder



BigGAN – ganbreeder



BigGAN – ganbreeder



GAN – "new parliament" (work title)



fake_samples_epo
ch_863...mix4.png



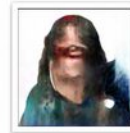
fake_samples_epo
ch_917_mix4.png



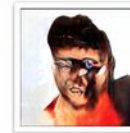
fake_samples_epo
ch_934_mix4.png



fake_samples_epo
ch_952_mix4.png



fake_samples_epo
ch_956_mix4.png



fake_samples_epo
ch_959_mix4.png



fake_samples_epo
ch_966_mix4.png



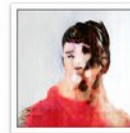
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ch_976_mix4.png



fake_samples_epo
ch_993_mix1.png



fake_samples_epo
ch_1007_mix1.png



fake_samples_epo
ch_1013_mix1.png



fake_samples_epo
ch_1028_mix1.png



fake_samples_epo
ch_1040...yva.png



fake_samples_epo
ch_1047_mix1.png



fake_samples_epo
ch_1058...yva.png



fake_samples_epo
ch_1070_mix4.png



fake_samples_epo
ch_1087_mix4.png



fake_samples_epo
ch_1091_mix4.png



fake_samples_epo
ch_1093_mix4.png



fake_samples_epo
ch_1122_mix4.png



fake_samples_epo
ch_1137_mix4.png



fake_samples_epo
ch_1181_mix4.png



fake_samples_epo
ch_1193_mix4.png



fake_samples_epo
ch_1204_mix4.png



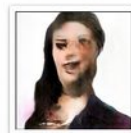
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ch_1220_mix4.png



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ch_1239_mix4.png



fake_samples_epo
ch_1260_mix4.png



fake_samples_epo
ch_1281_mix4.png

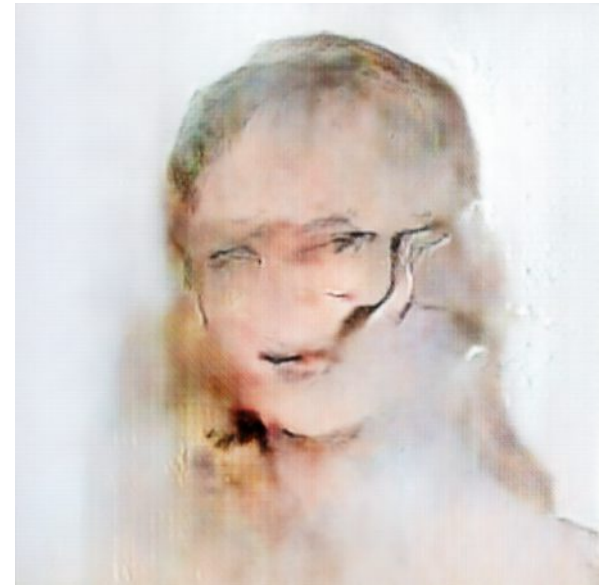
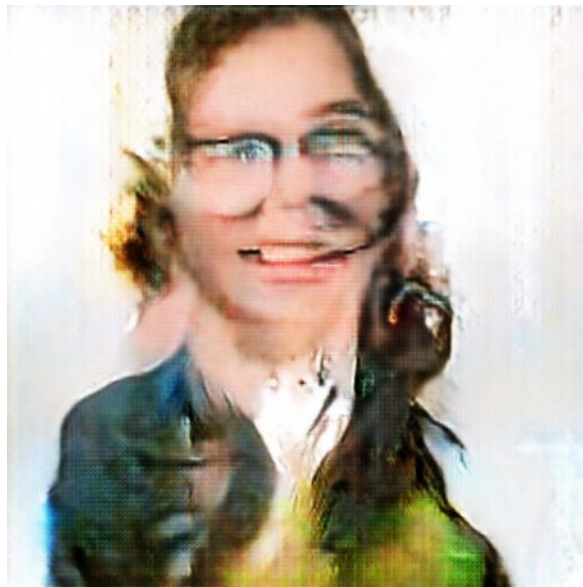


fake_samples_epo
ch_1294_mix4.png



fake_samples_epo
ch_1317_mix4.png

GAN – "new parliament" (work title)



GAN – tekoäly, neuroverkot

”Could artificial intelligence replace artist's own aesthetics selections? Could it get enjoyment from viewing art?

Would it be possible to measure this gratification and save it as digital memory stamp?

What are those tools and parametres, for being able to read and interprete these future memory traces and who will be there, for the interpretations?”

”Can creativity exist without bodily knowledge and intelligence, and emotions? Can we even expect creativity without achieving these conditions? ”

in finnish article:

JH - Synteettisistä kuvista, tekoälystä ja taiteesta. Mustekala 3/2019.

Future scenarios



history



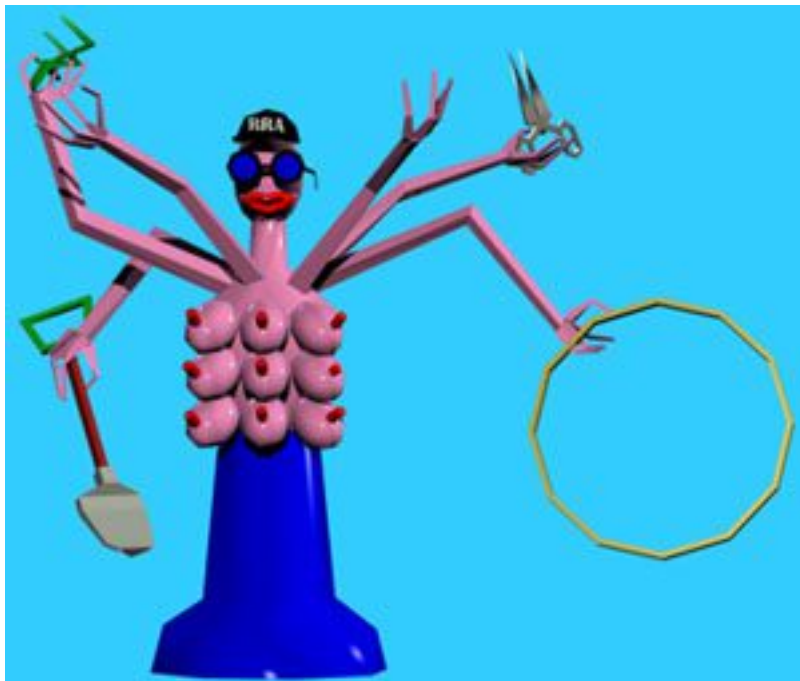
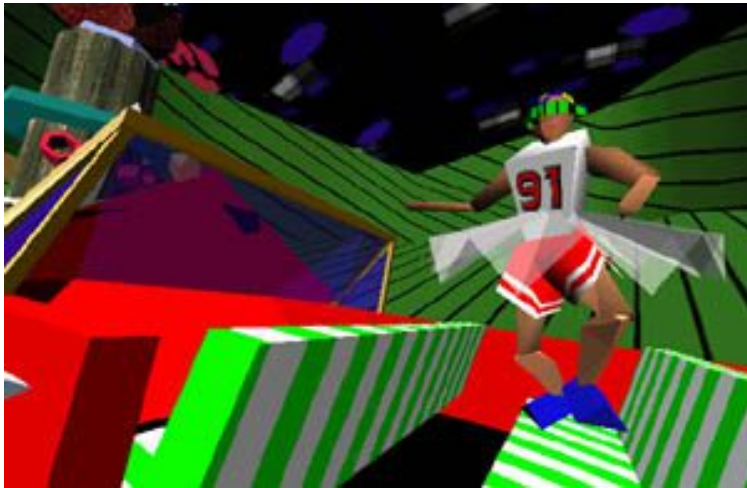
Erkki Kurenniemi – Master Chaynjis, 1982

history



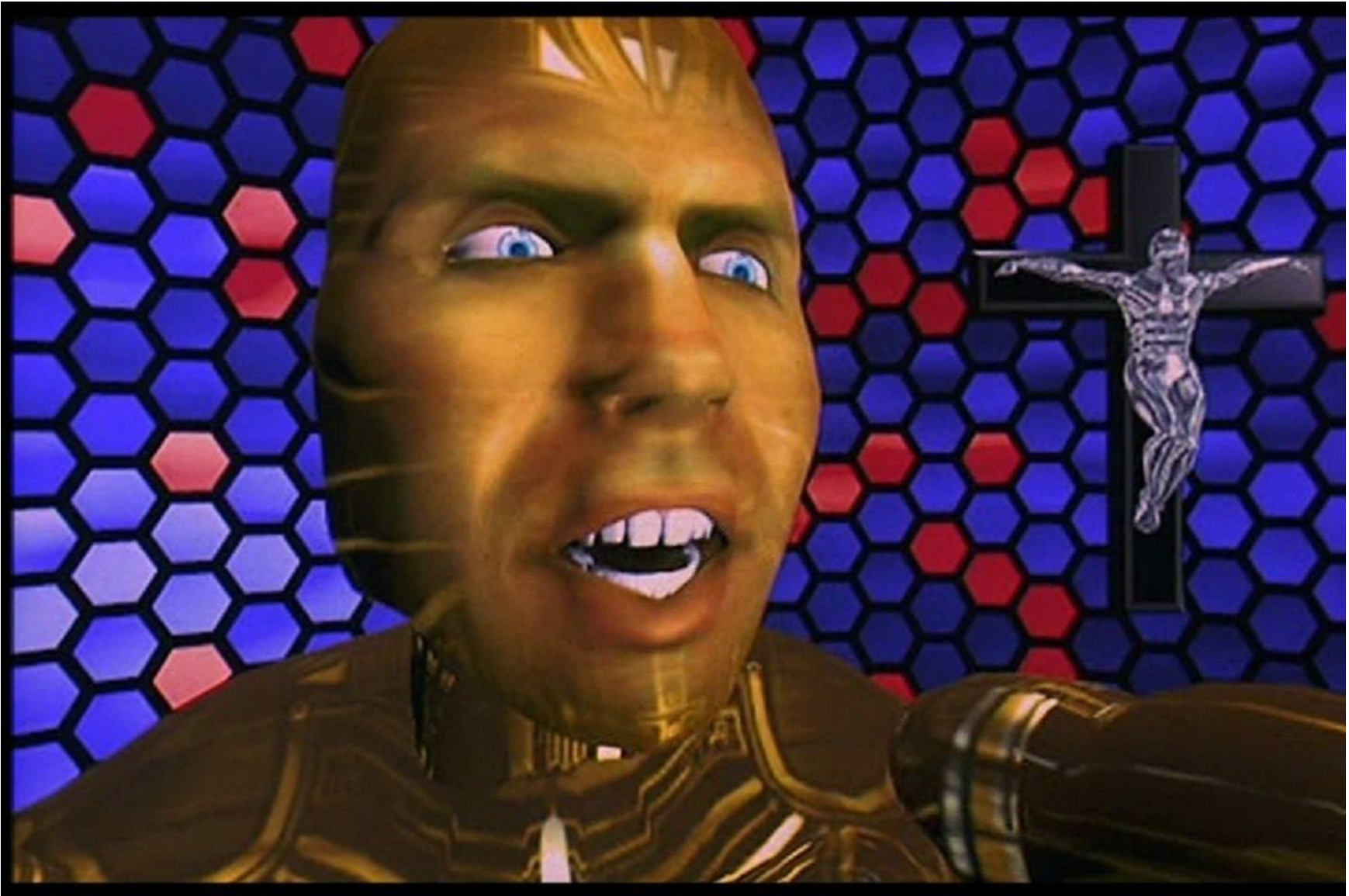
Harold Cohen and AARON, 1973 -

history



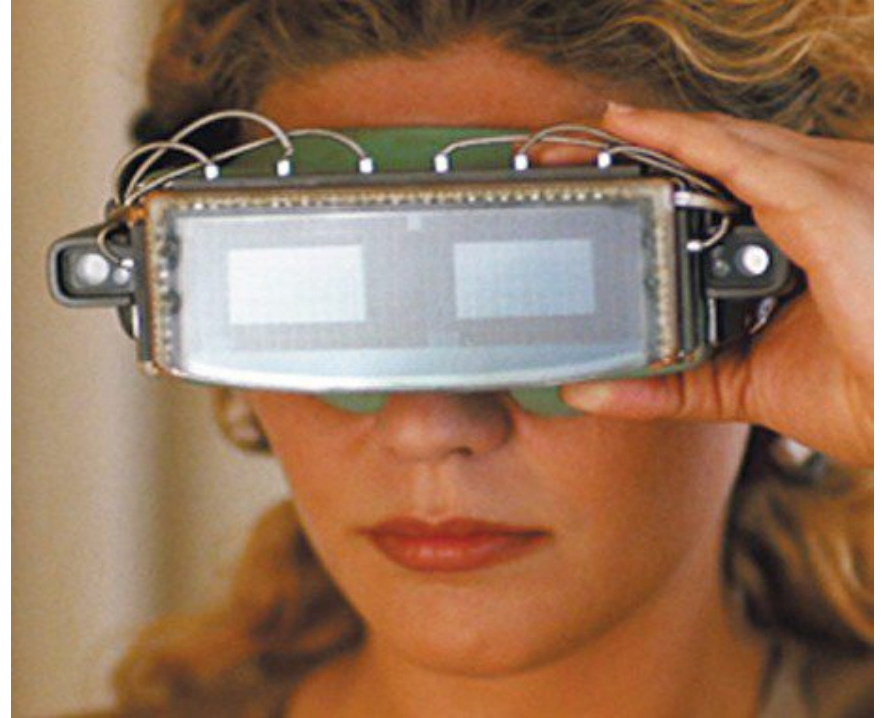
Andy Best & Merja Puustinen – Conversation With Angels, 1998.

history



Brett Leonard : The Lawnmower Man movie, 1992.

history



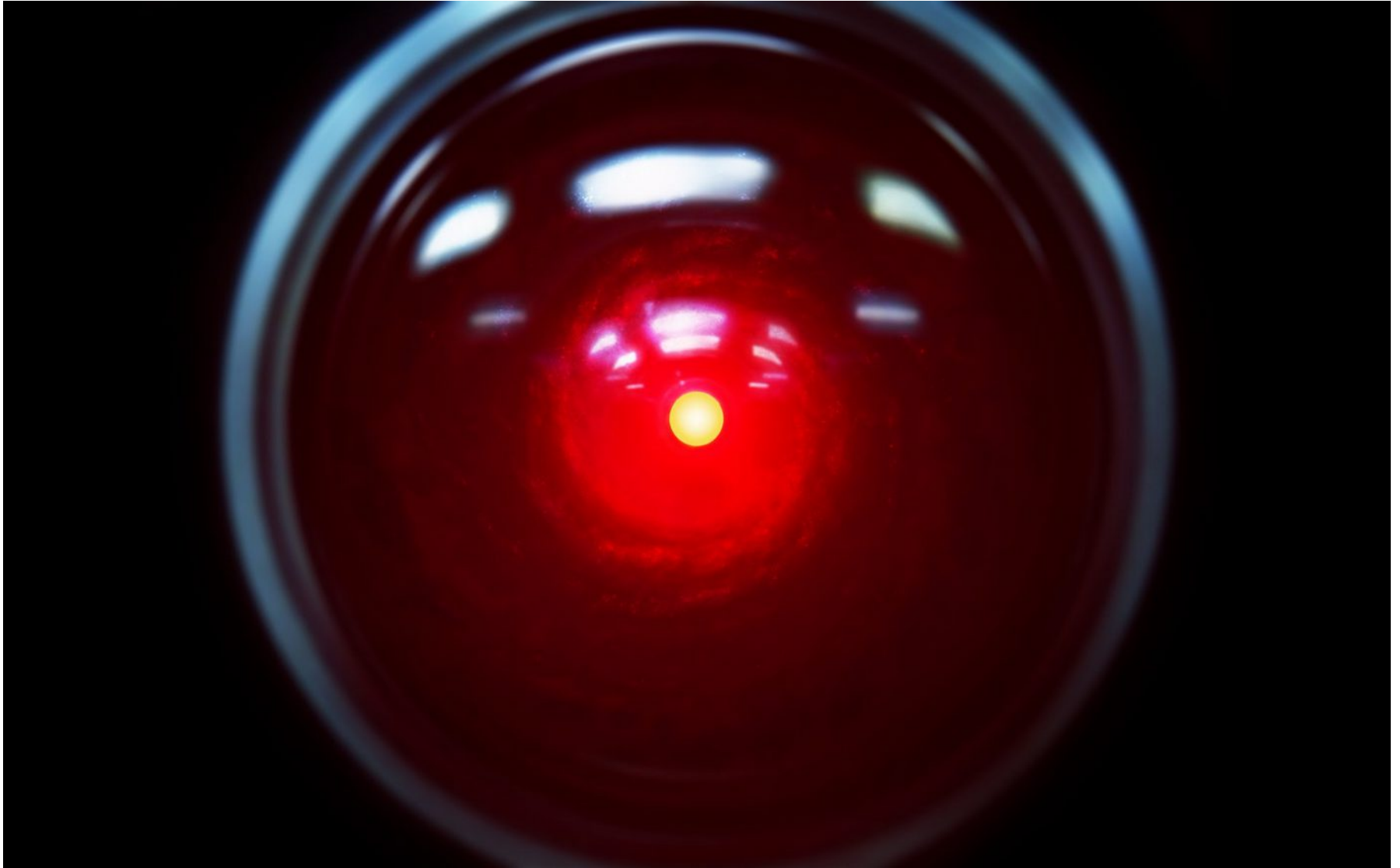
Wim Wenders : Until the End of the World movie, 1991.

history



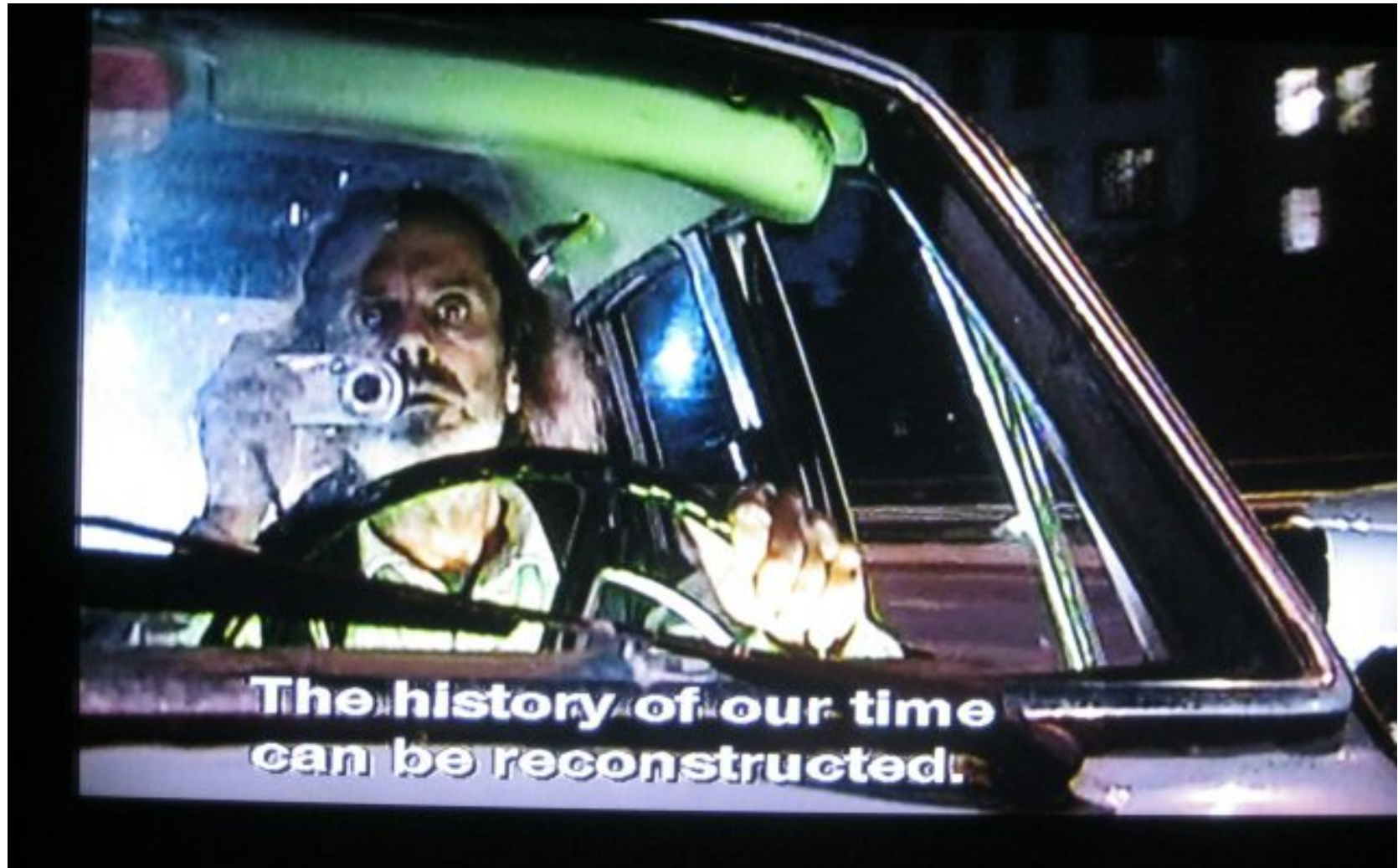
Steven Spielberg : Minority Report movie, 2002.

HAL 9000



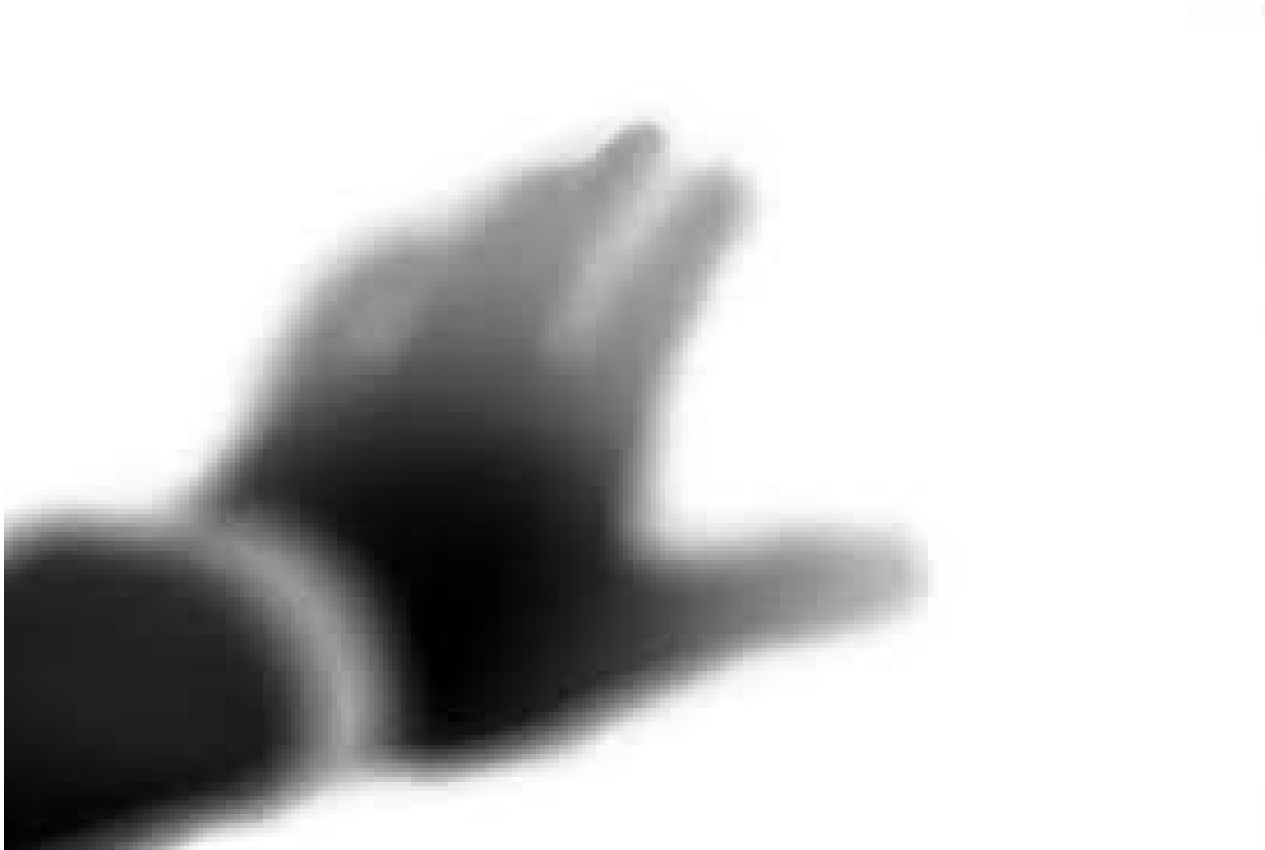
Stanley Kubrick - 2001: A Space Odyssey (1968)

history



Mika Taanila : Future Is Not What It Used To Be movie, 2002.

history



Terike Haapoja – The edge of the world, 2011

virtual reality



Tilt Brush, 2016 -

extended senses



Neil Harbisson, Cyborg antenna, 2004 -

extended senses



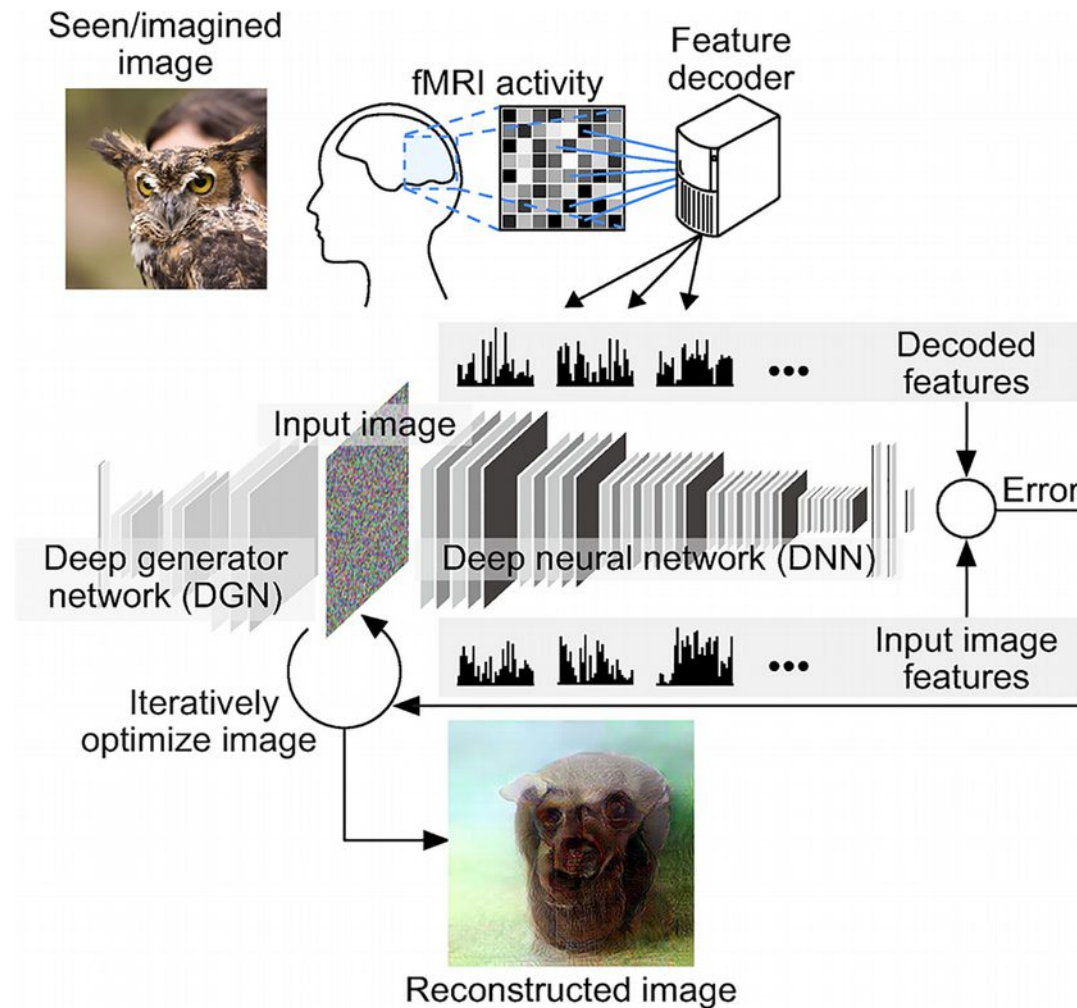
Rob Spence, Eyeborg, 2008 -

extended senses



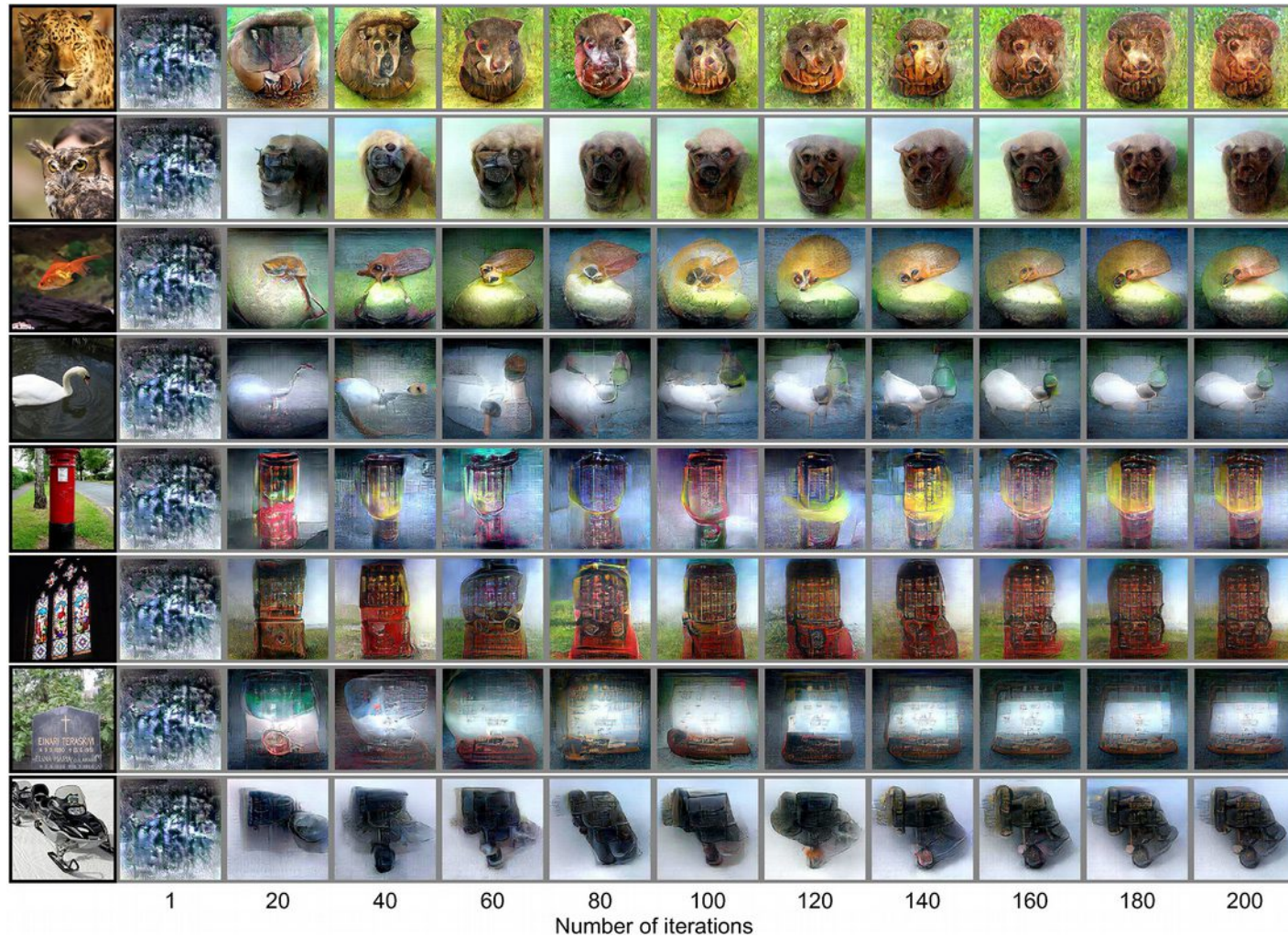
Orcam MyEye, 2017 -

human – AI - images



Deep image reconstruction from human brain activity -
Shen / Horikawa / Majimal / Kamitani, 2019

human – AI - images



Deep image reconstruction from human brain activity -
Shen / Horikawa / Majimal / Kamitani, 2019

human – AI - images



Pierre Huyghe – Umwelt, 2018

human – AI - images



Pierre Huyghe – Umwelt, 2018

AI – society - control



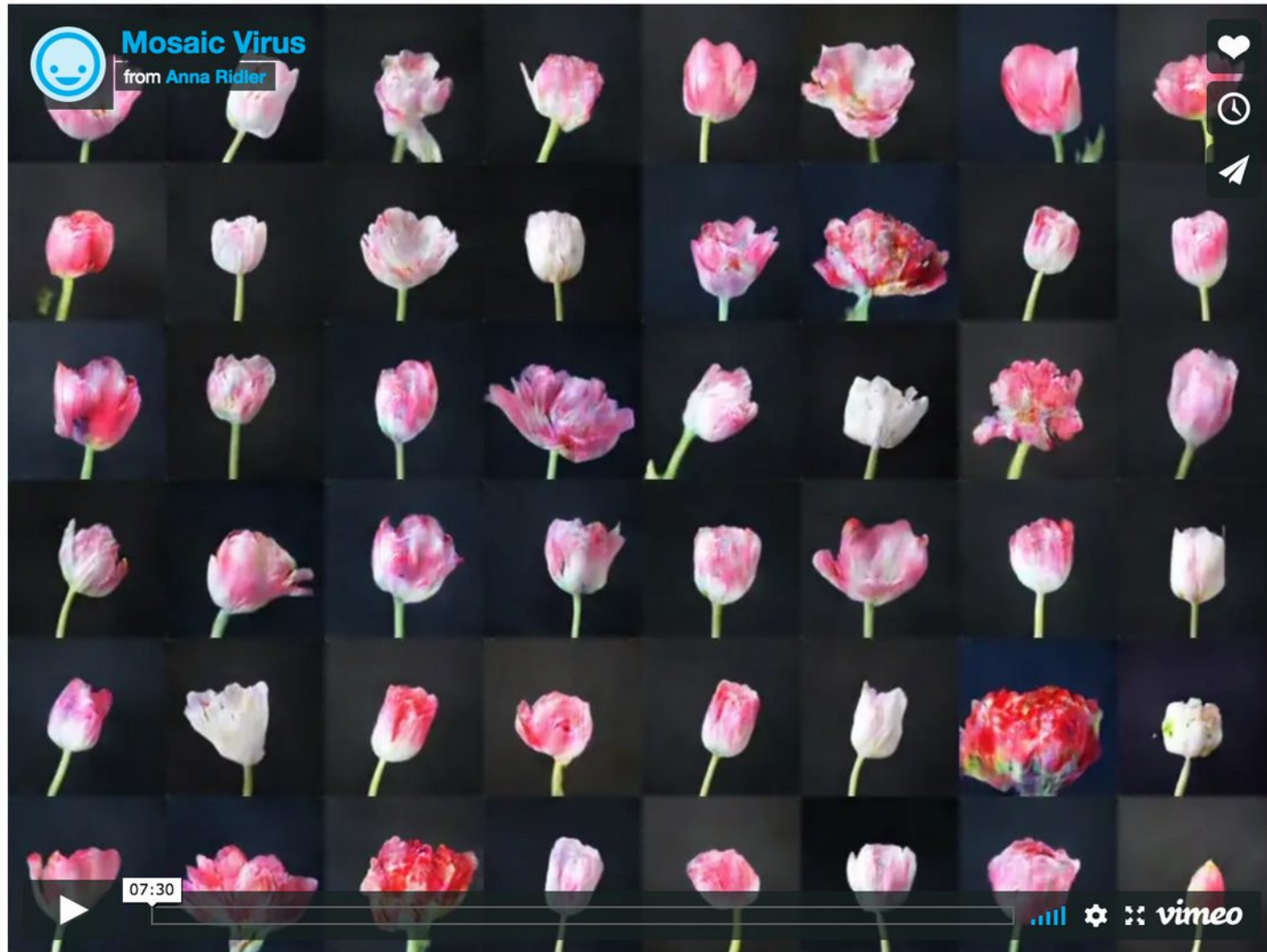
SenseTime AI start up, Kiina, 2018.

images – data – society - ”security”



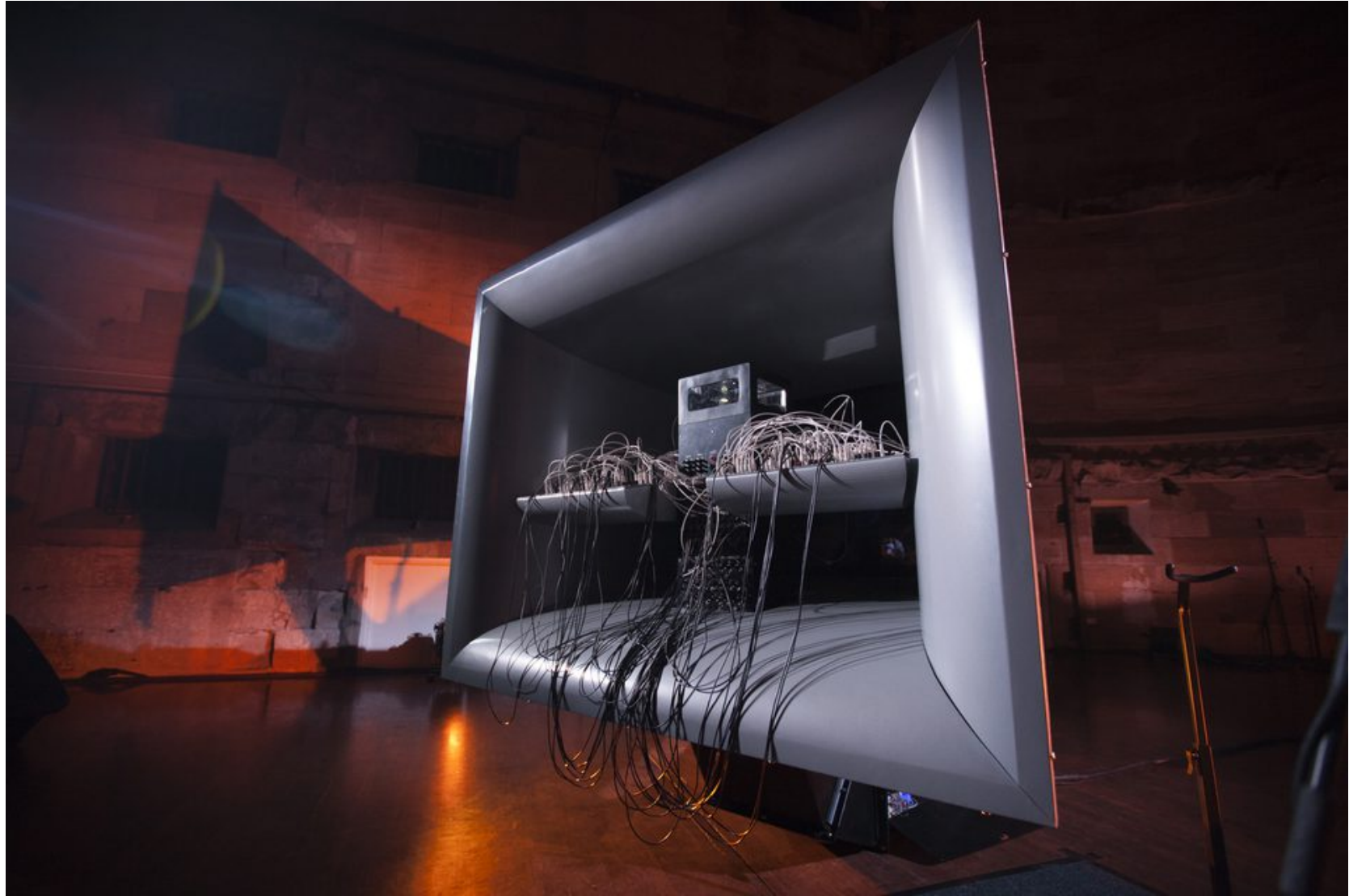
Hito Steyerl – image from Snowden files, 2016

AI art – society - history



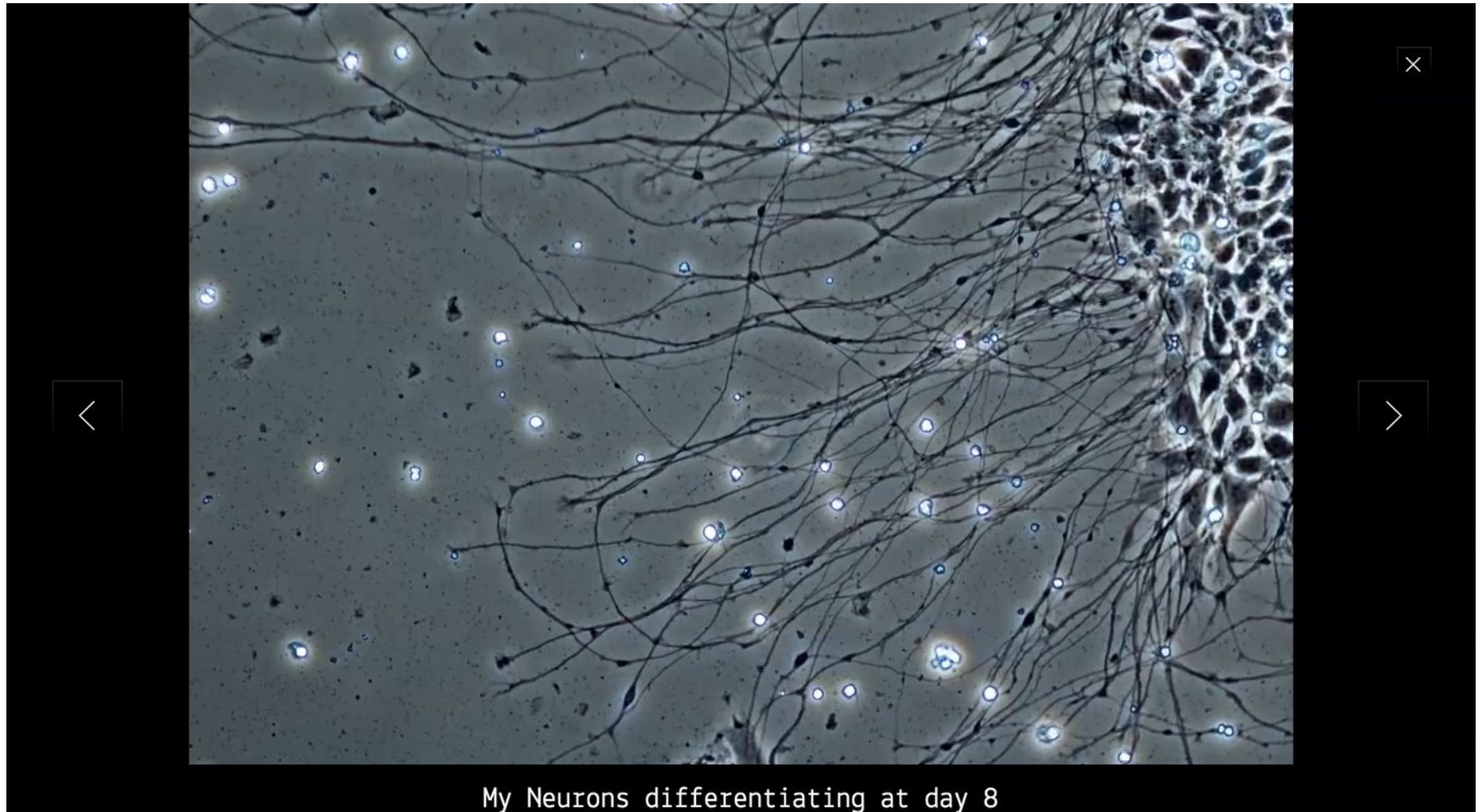
Anna Ridler – Mosaic Virus, 2018

artificial life – neural network



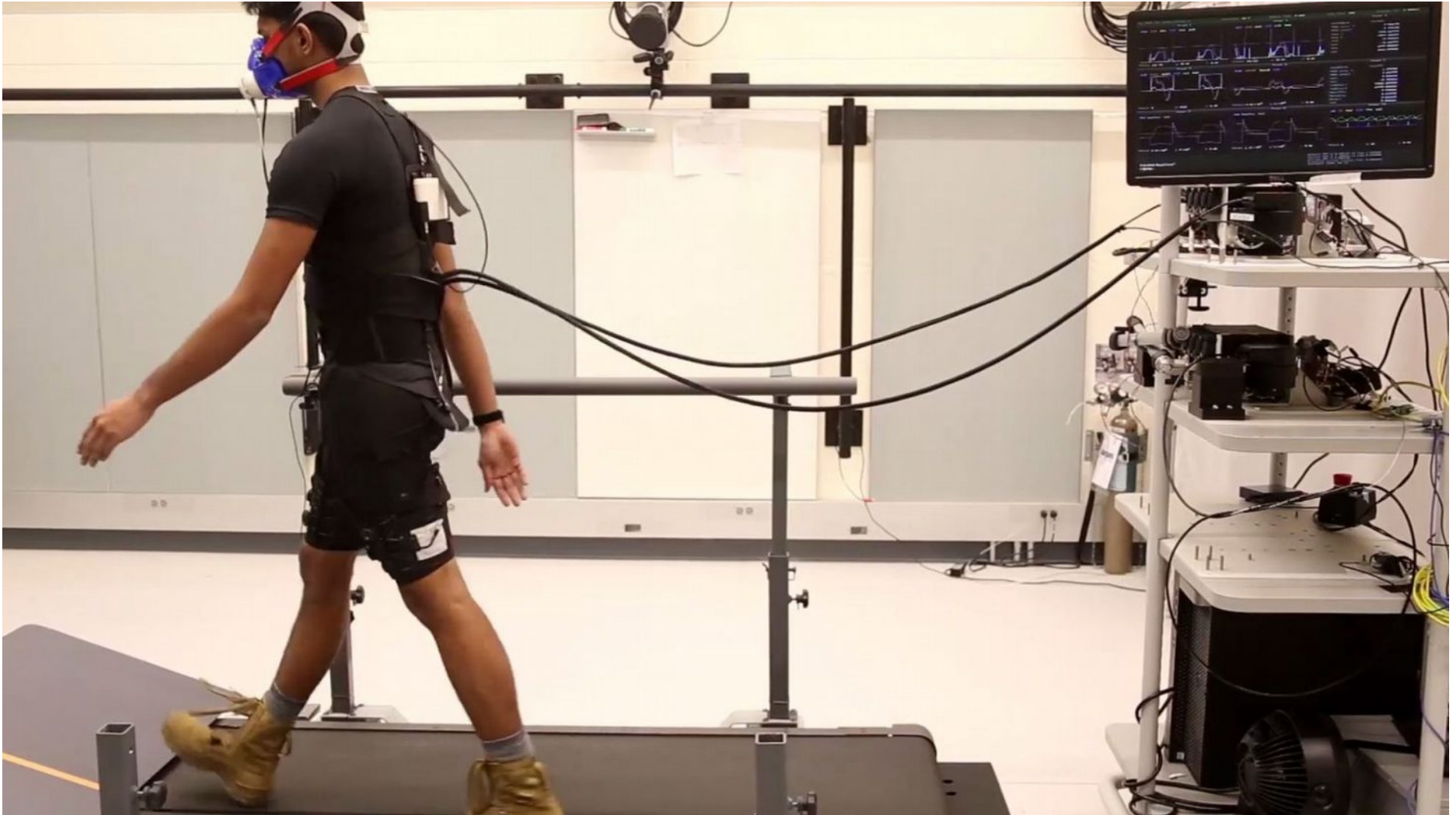
Guy Ben-Ary – cellF, 2015-

artificial life – neural network



Guy Ben-Ary – cellF, 2015-

body – technology - AI



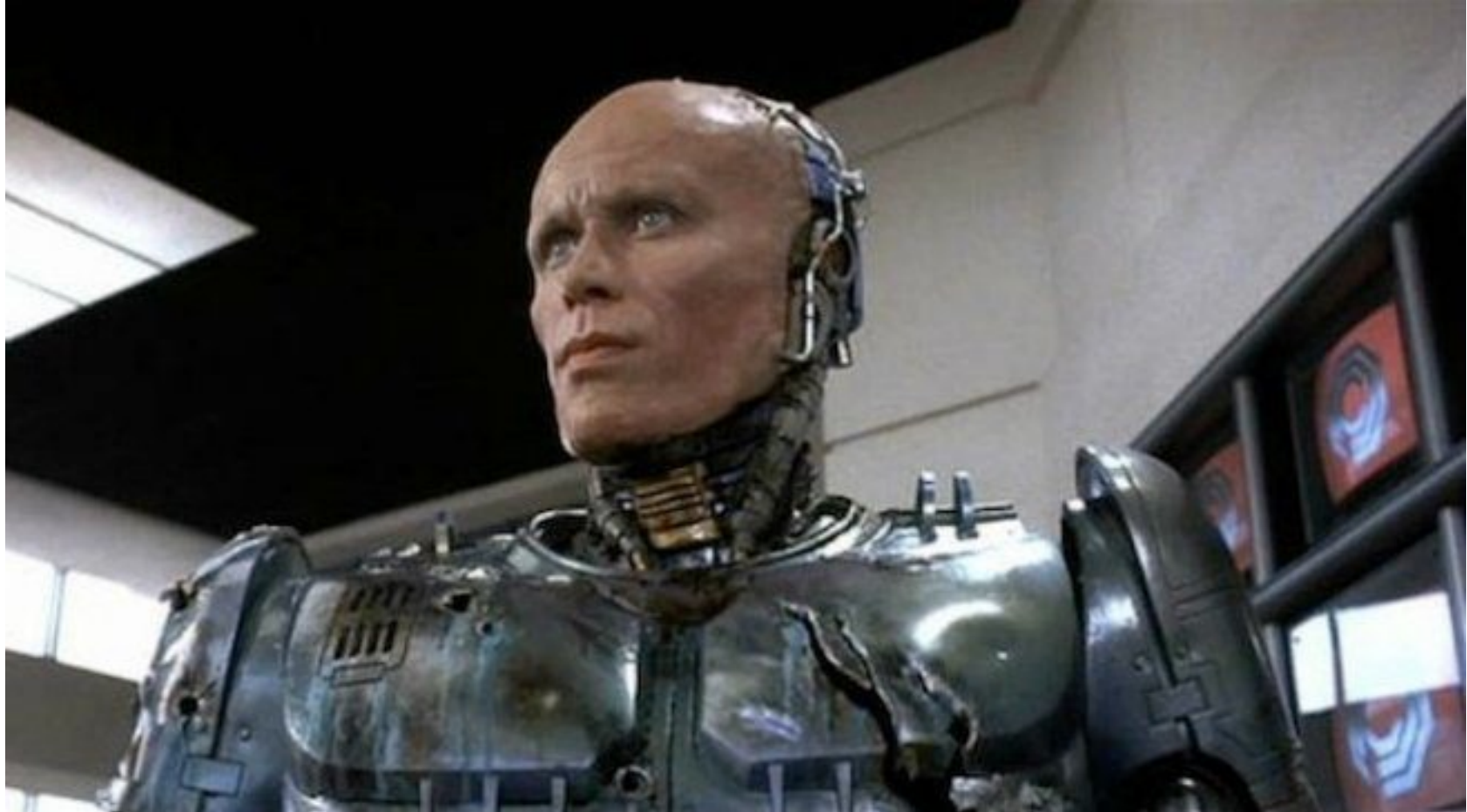
Soft exosuits

body – technology - hybrid



Stelarc, Exoskeleton, 200X - (?).

human-machine hybrid



RoboCop movie, 1987

human-machine hybrid



Hiroshi Ishiguro - Geminoid HI-1, 2012.

AI – singularity (?)

”The technological singularity (also, simply, the singularity) is a hypothetical future point in time at which technological growth becomes uncontrollable and irreversible, resulting in unfathomable changes to human civilization.

According to the most popular version of the singularity hypothesis, called intelligence explosion, an upgradable intelligent agent (such as a computer running software-based artificial general intelligence) would enter a "runaway reaction" of self-improvement cycles, with each new and more intelligent generation appearing more and more rapidly, causing an intelligence explosion and resulting in a powerful superintelligence that would, qualitatively, far surpass all human intelligence.” - Wikipedia.

”scene”



AI: More than Human exhibition, Barbican Centre, London, 5-8/2019