



AIOLI - AI Open Lab Initiative

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December 2, 2017

Systems Engineering for Computer Vision

SciFi debunked - Slaugherbots

Agenda

SciFi debunked - Slaugherbots

Slaugherbots

Drone technology background

Drone- and weapon-related science and projects

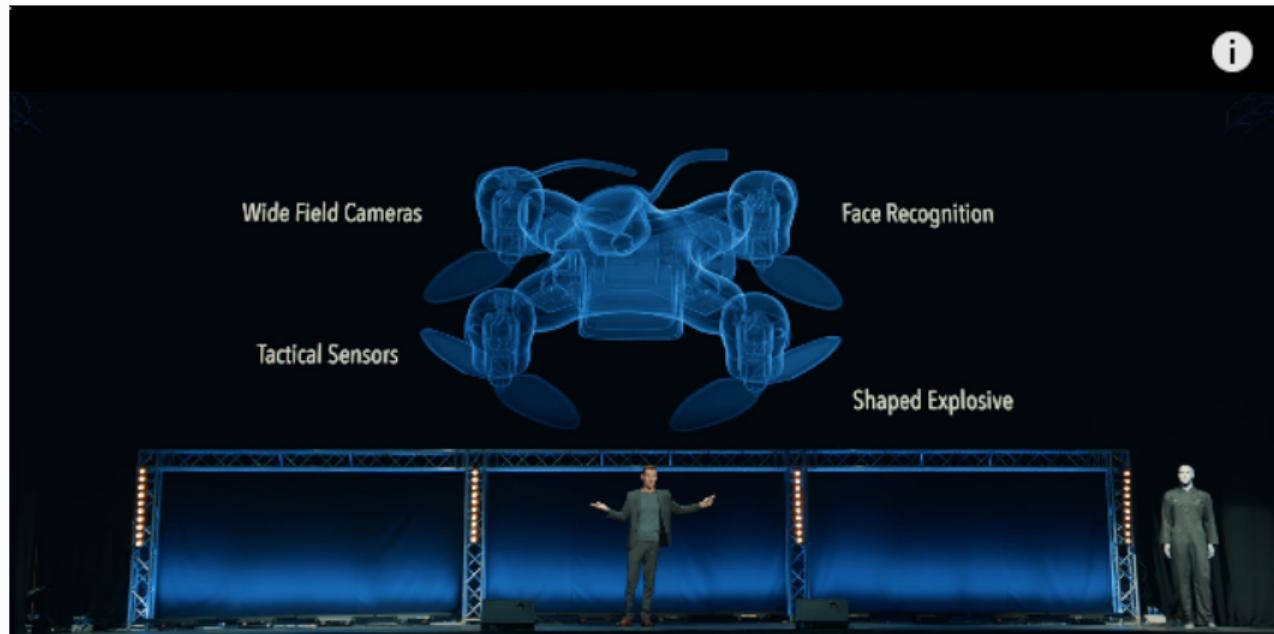
Live-demo

Assessment

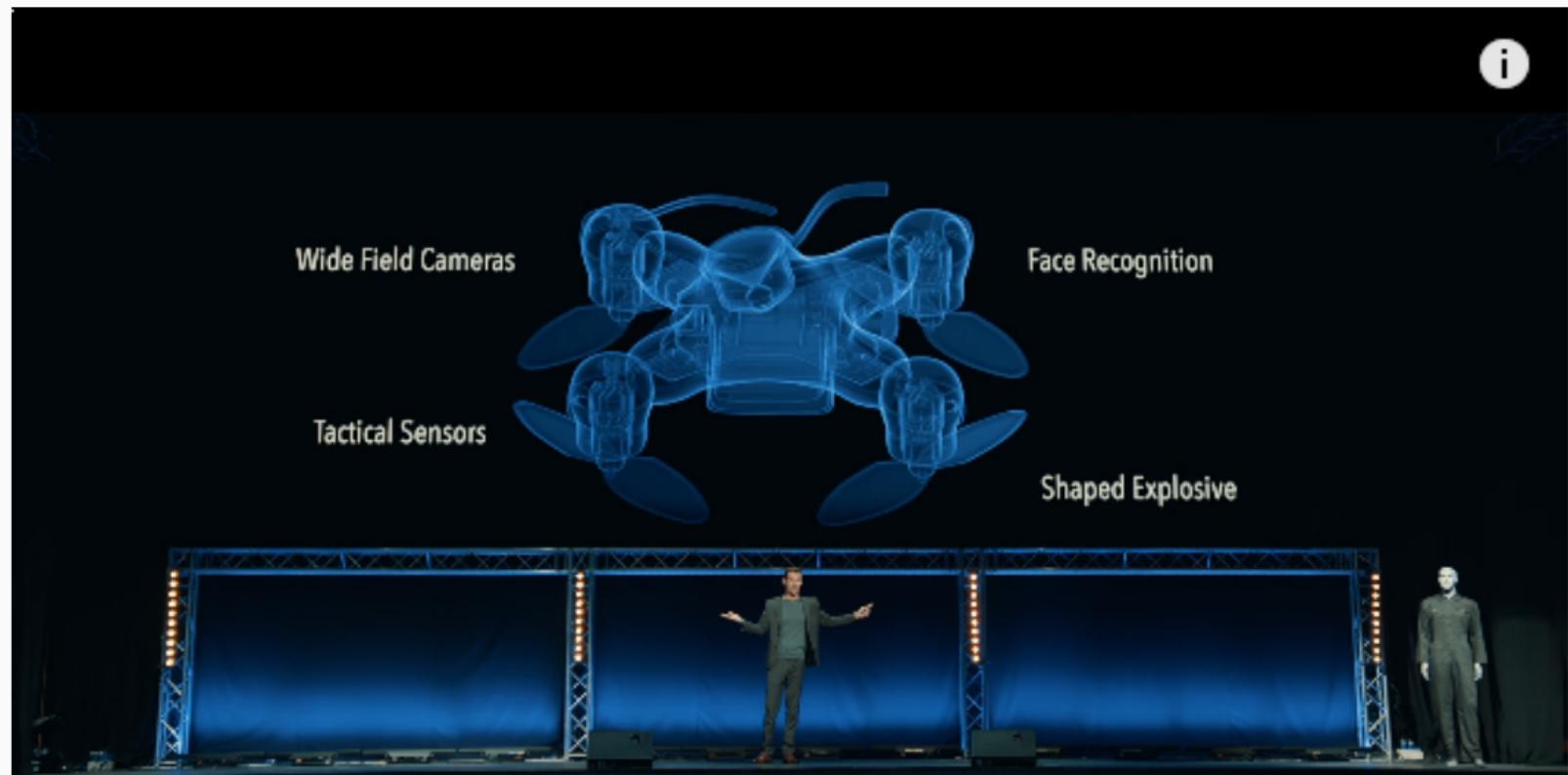
Slaughterbots

Video - Slaughterbots (7:47)

Video released by autonomousweapons.org, shall support the campaign(s) to pass laws against autonomous weapons (<https://www.stopkillerrobots.org/>) In the video: Prof. Stuart Russel (AI/CompSci, UC Berkeley)

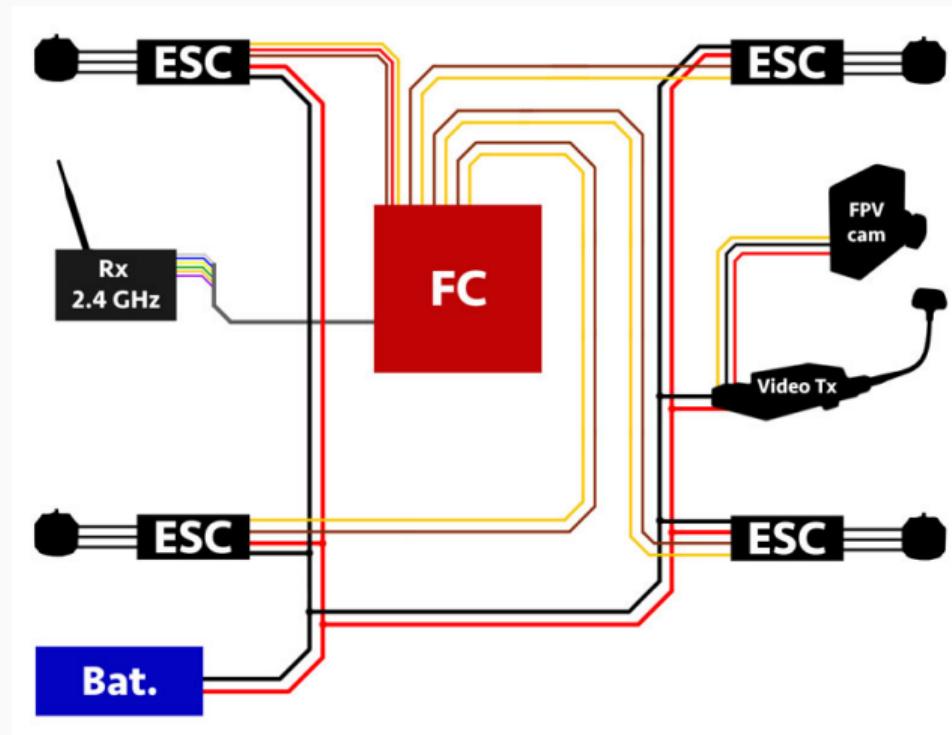


Video - Slaughterbots (7:47)



Drone technology background

Drone tech

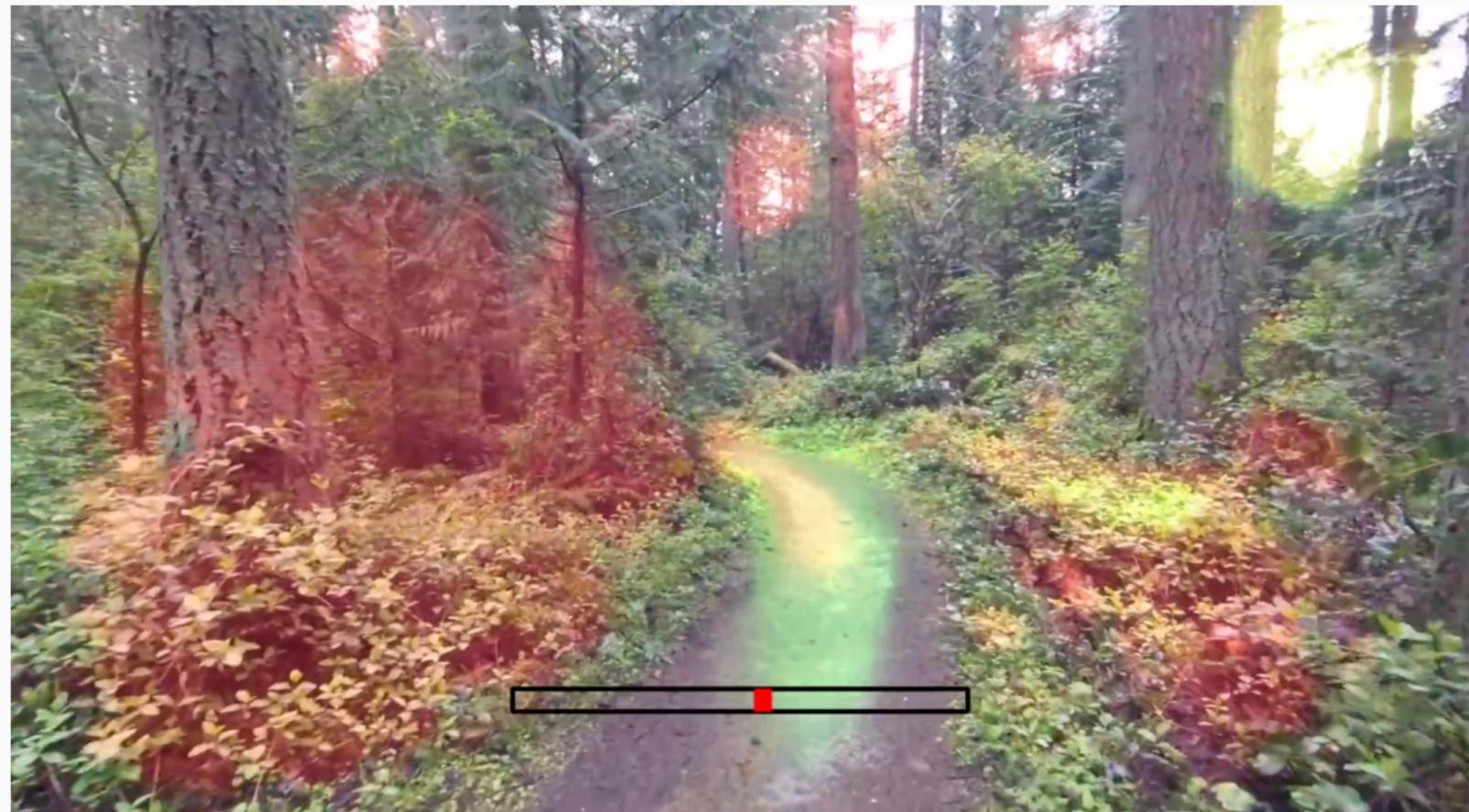


Drone- and weapon-related science and projects

Drone- and weapon-related science and projects

- DoD: Perdix micro-drone-swarm
- No Info about localization found: ETH Zurich (D'Andrea):
<http://flyingmachinearena.org/research/>,
<https://www.youtube.com/watch?v=RCXGpEmFbOw>
- The pentagon wants you to develop drone swarms:
<https://thenextweb.com/insider/2017/10/23/the-pentagon-wants-you-to-develop-drone-swarms-for-the-military/>

NVIDIA - Autonomous Drone video (3:10)



NASA JPL autonomous drone race



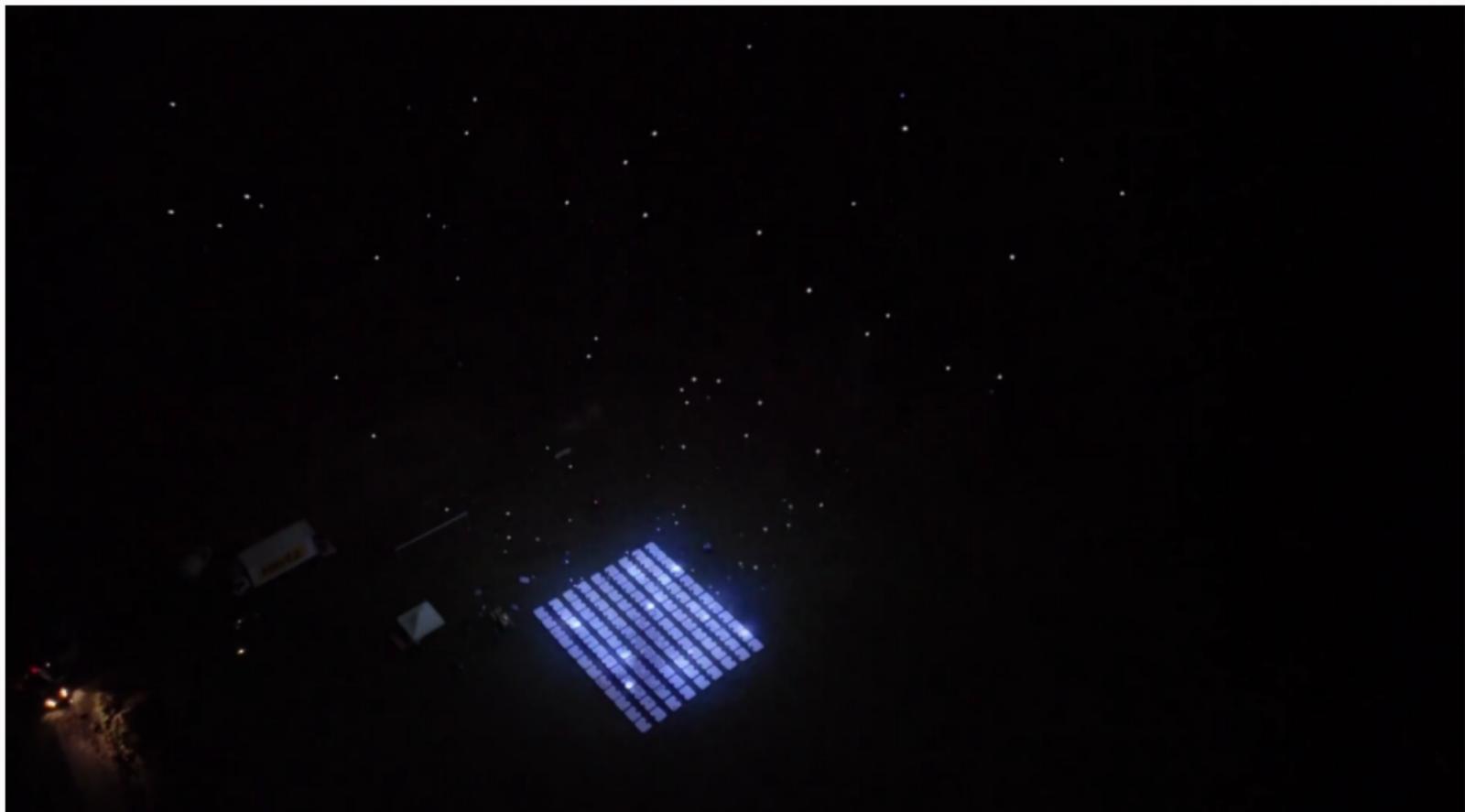
then matches it with a pre-loaded map.

NASA JPL autonomous drone race

- Localize by comparing current camera-picture against pre-built map

<https://www.nasa.gov/feature/jpl/drone-race-human-versus-artificial-intelligence>

Intel drone swarm



Live-demo

Livedemo

Assessment

Assessment