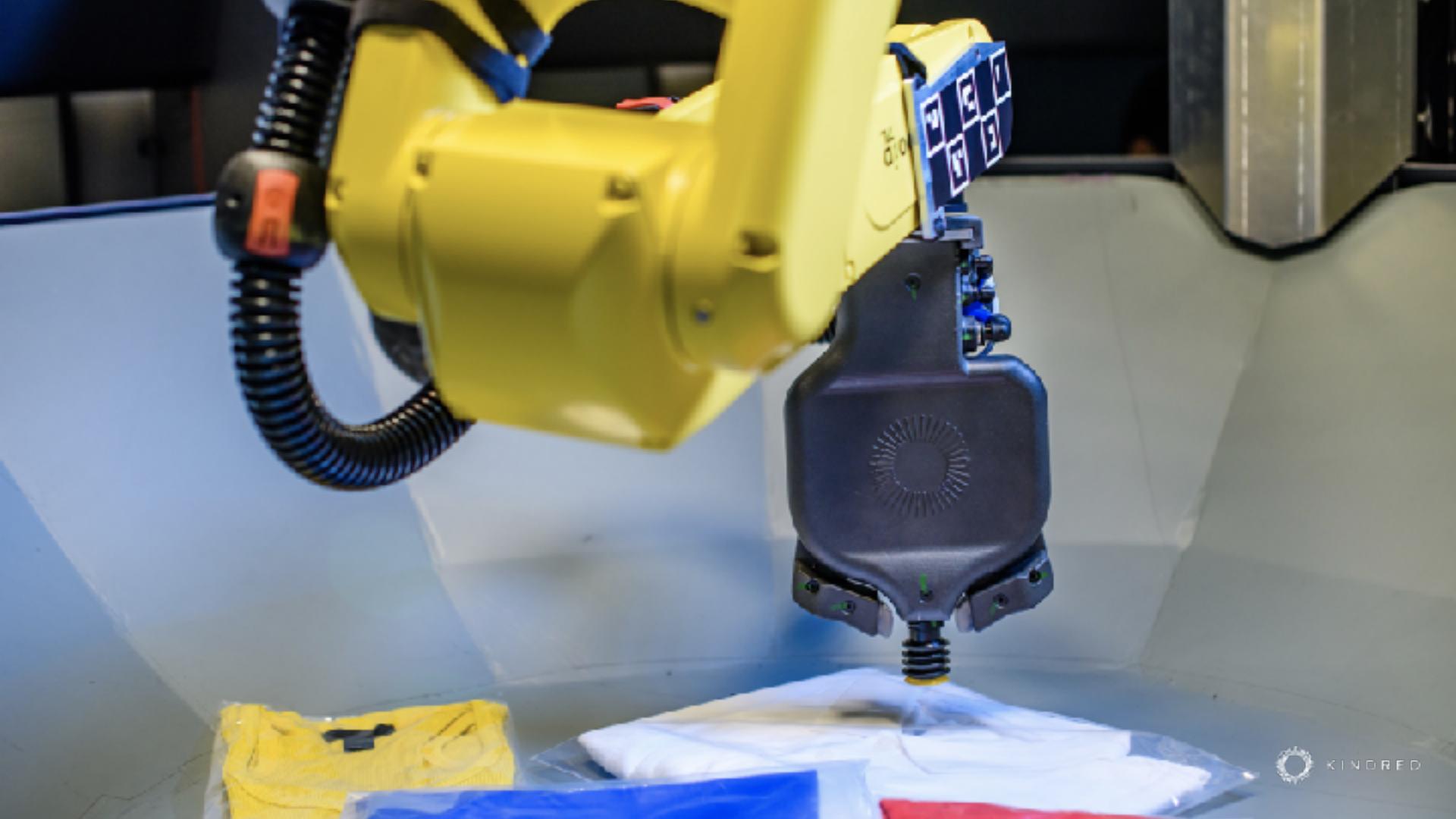
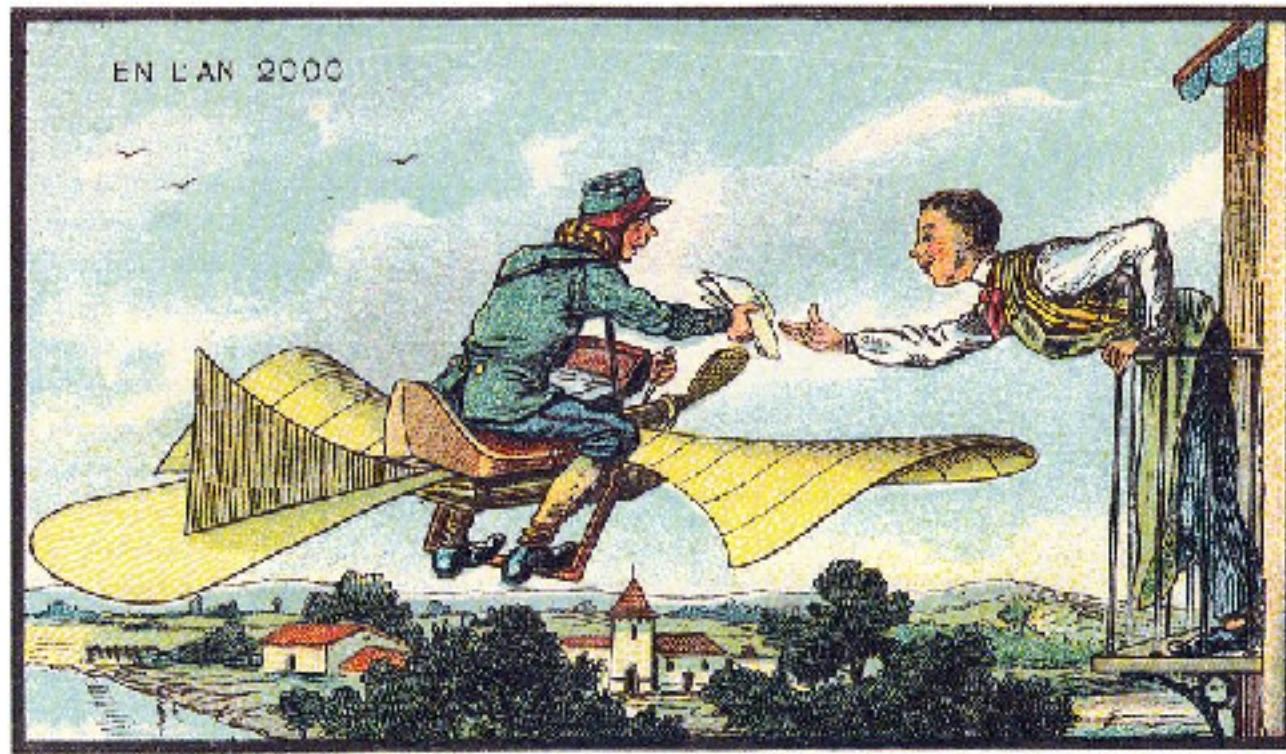


AI and The Evolution of Work

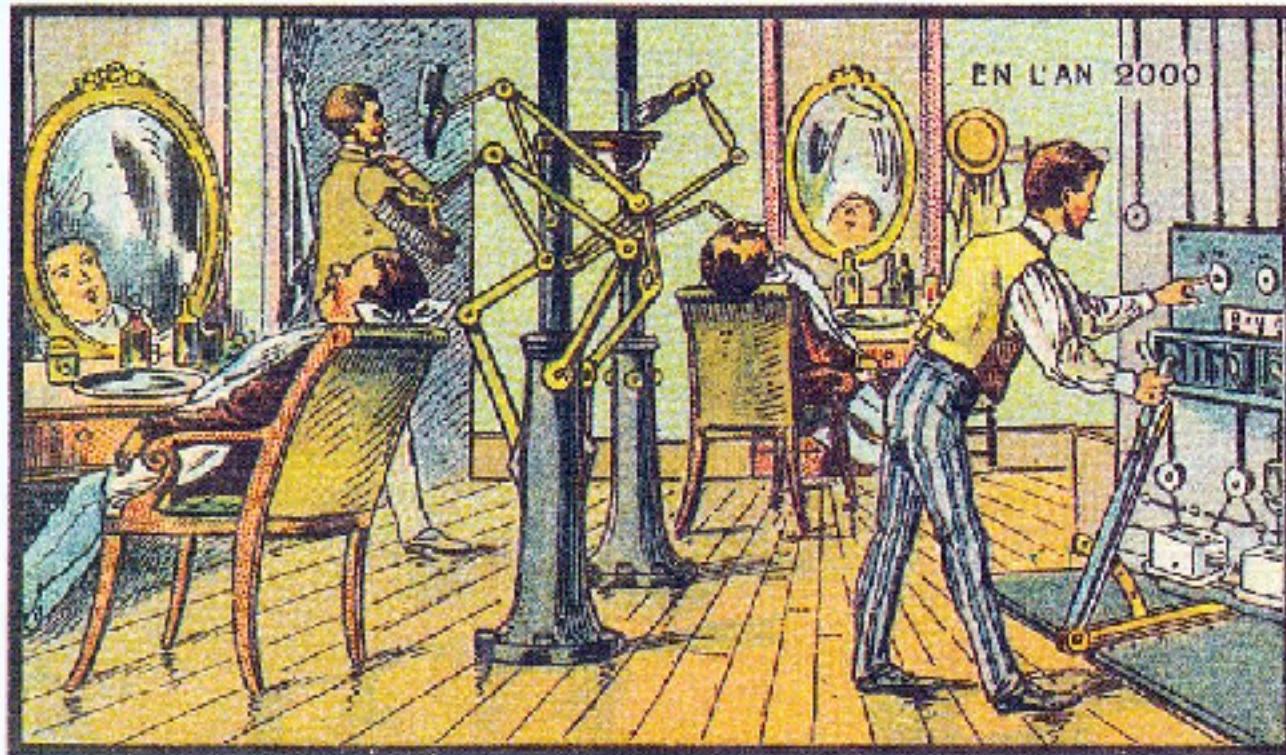
Julian Villella / SW/ML Manager, Robotic Grasping



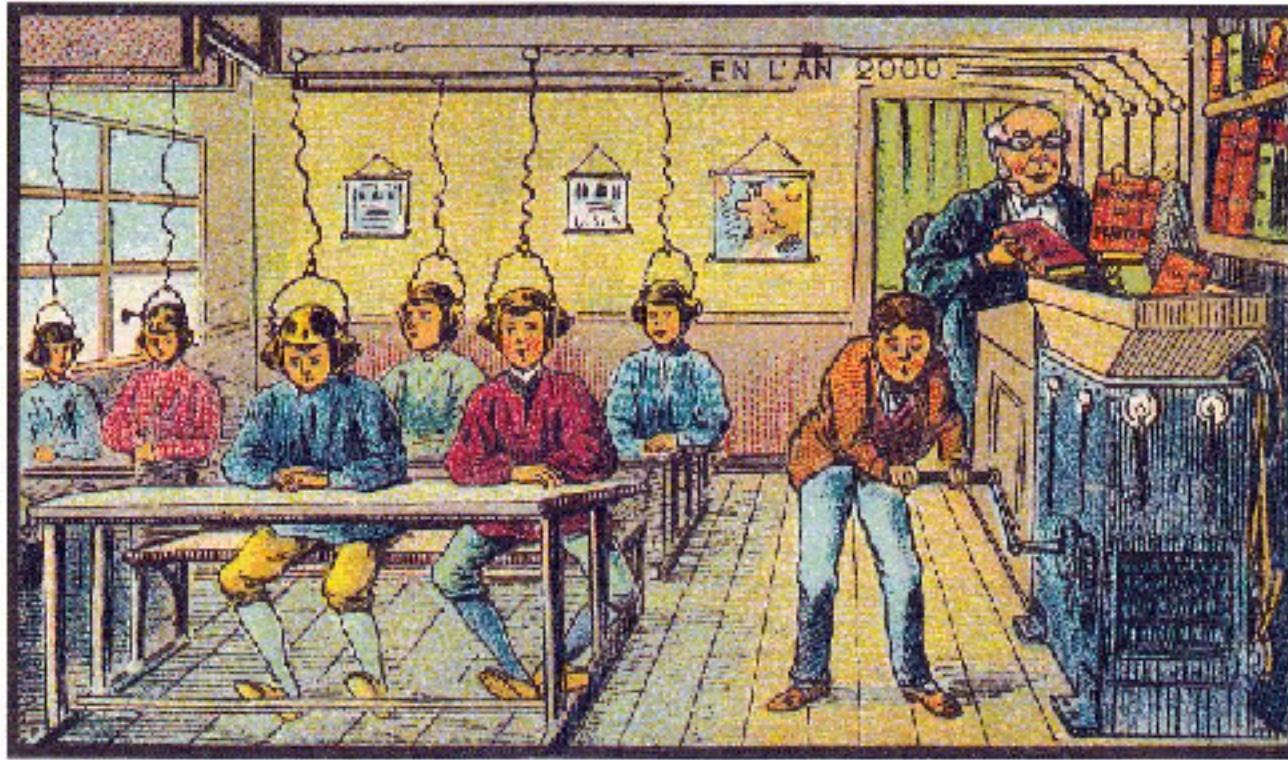




The Rural Postman



The New-Fangled Barber



At School

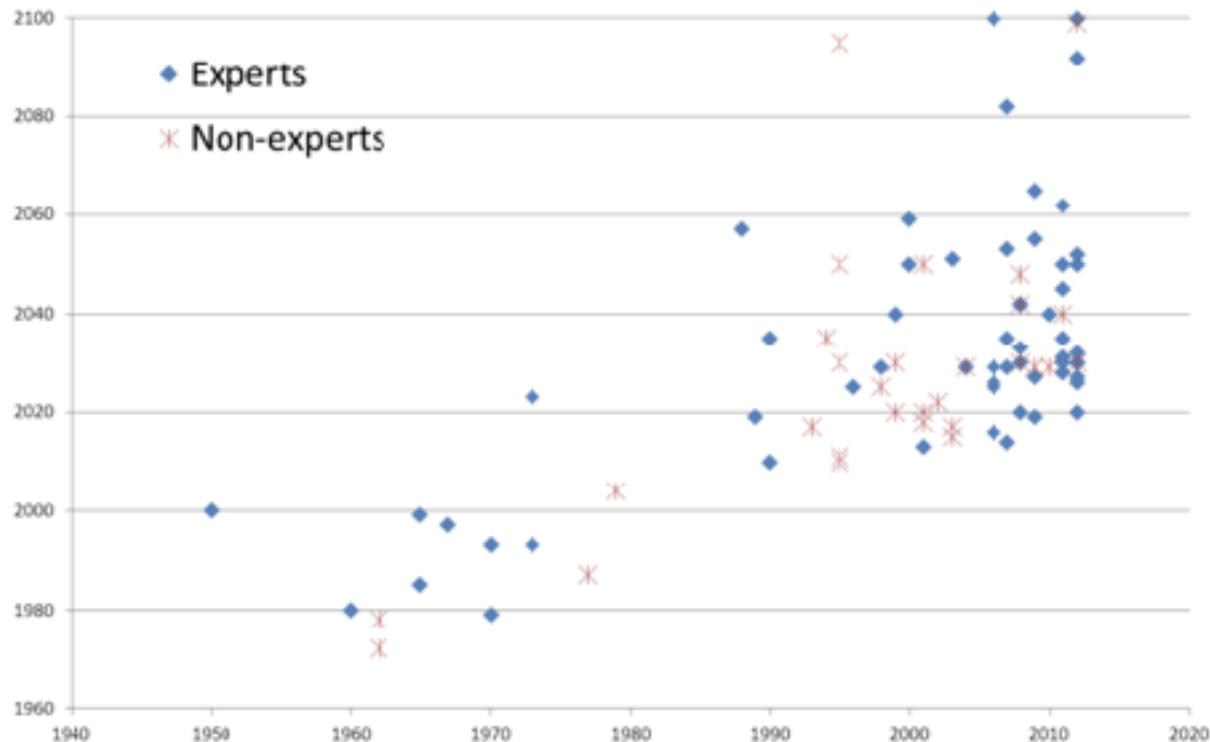
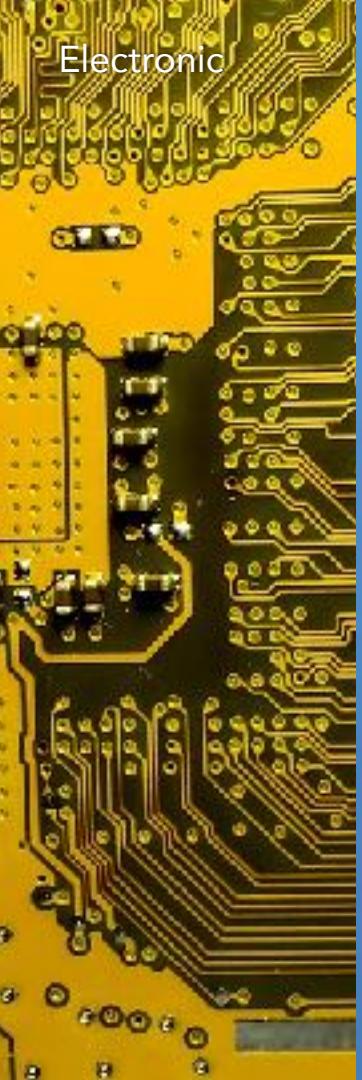


Figure 1: Median estimate for human-level AI, graphed against date of prediction.

~ Stuart Armstrong, Kaj Sotala / MIRI



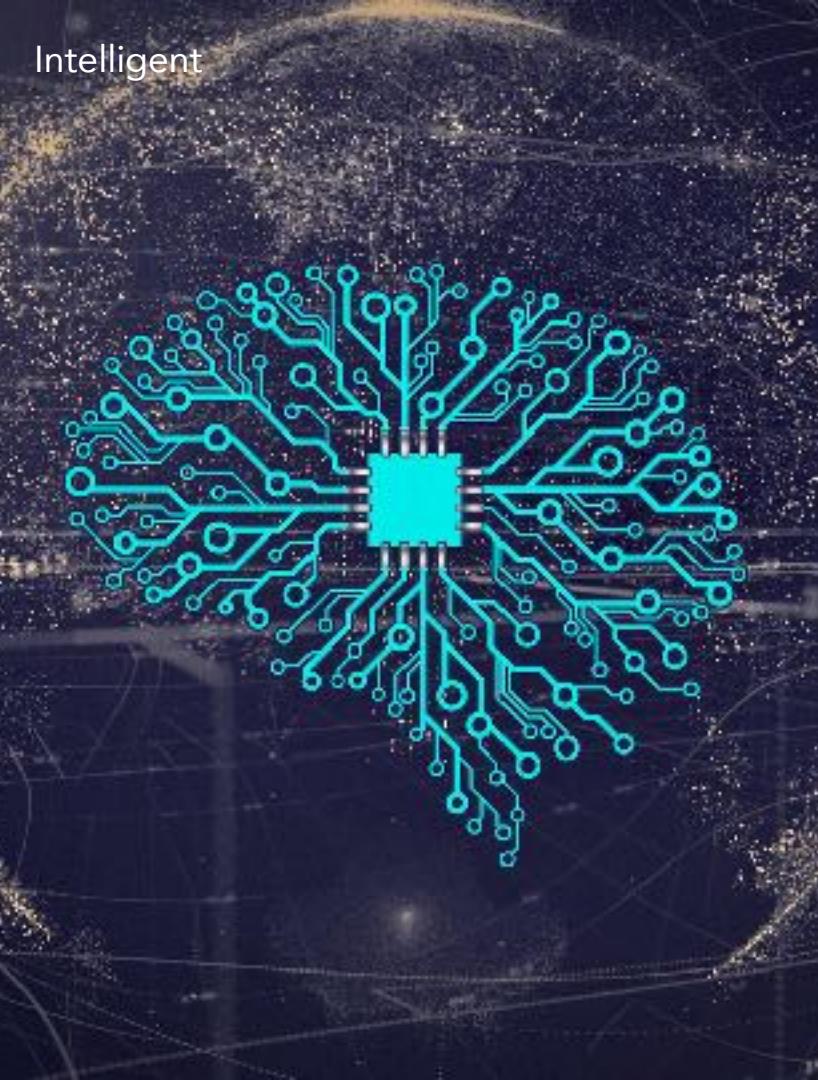
Connected



Mobile



Intelligent

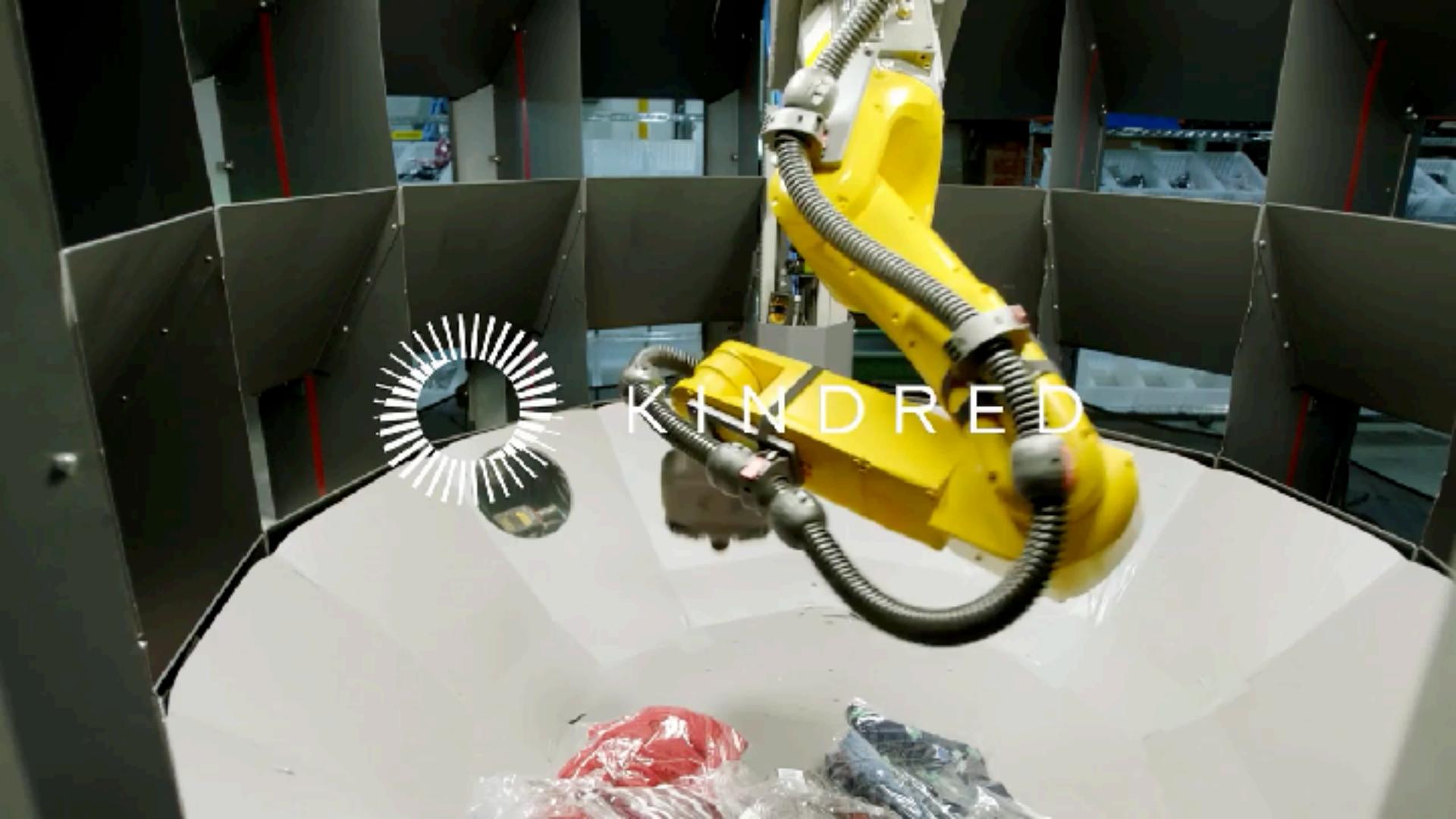






Benchmarking reinforcement learning algorithms on real-world robots

~Mahmood, A. R., Korenkevych, D., Vasan, G., Ma, W., Bergstra, J. (2018b)



KINDRED



KINDRED

“Your Online Shopping Habit Is Fueling a Robotics Renaissance”

~Wired

"Kindred, a San Francisco-based robotics and artificial intelligence startup, is bringing its human-assisted robotic arms to a big-name retailer."

~The Verge



“The man-machine hybrid features a robot arm and a grasping technology powered by reinforcement learning and, yes, that means it learns from humans.”

~The Globe and Mail

"I'm never leaving this place. You get the opportunity to work with cutting edge technology (Robot stuff) and individually you can make a difference."

"I enjoy what I do so it doesn't seem like work."

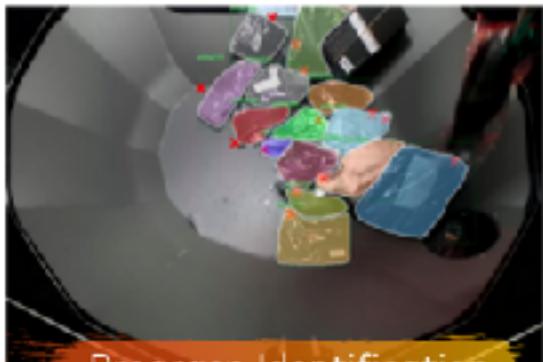
"I like working with the orbs. Faster pace and easier than [the] wall pack stations. I have great things to say about the orbs."

~Gap, On-site Associates





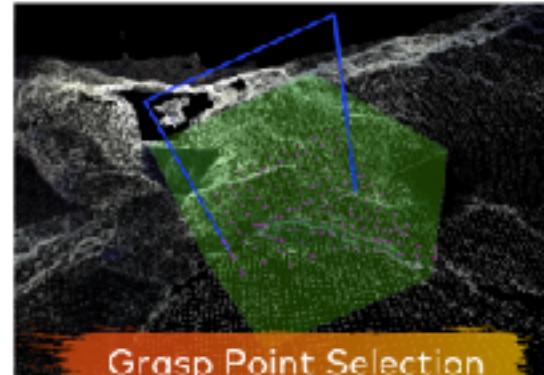




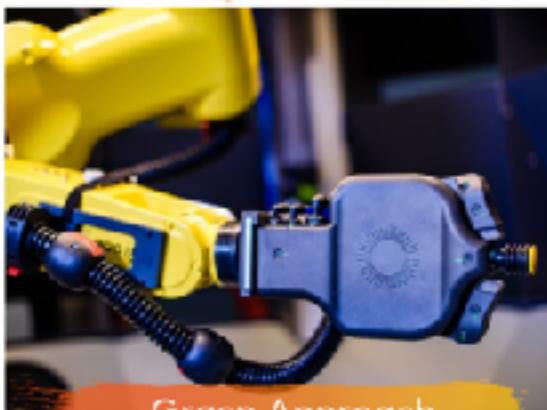
Pregrasp Identification



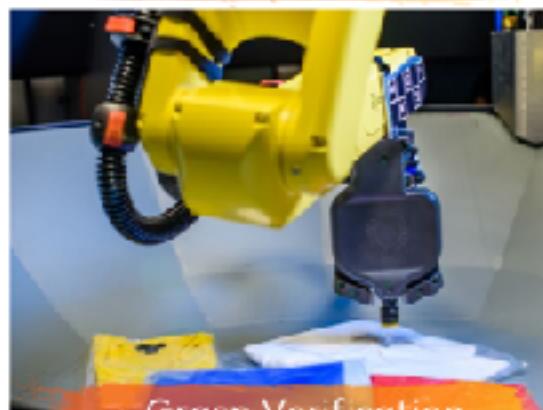
Grasp Positioning



Grasp Point Selection



Grasp Approach



Grasp Verification



Stow Verification







Displacement Effect

Automation can directly displace workers from performing specific tasks



Productivity Effect

Automation can also expand labour demand through the efficiencies it brings to production

Agriculture



Manufacturing



Services





Linear Career

One job for life are not supported in
this new model of automation



Open Loop Education

Fixed number of years of schooling,
but those years span over one's
lifetime interlaced with their work.



