Introduction to Al Safety Let's be ready before it's too late!

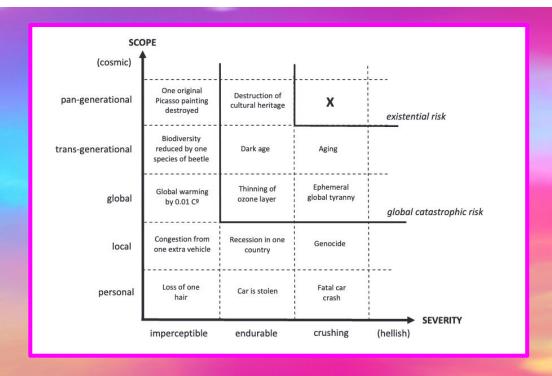
Stefania Delprete @astrastefania

PyCon Italia May 28, 2023

Should we panic?



Should we panic?



Should we panic?



Hi, I'm not a robot!

Stefania Delprete
Python data science effective altruism
physics consciousness Mozilla Al
vegan eyesight knees

You can find me as astrastefania almost everywhere



THE GOOD

Supporting diagnosis with computer vision

2017

LETTER

doi:10.1038/nature21056

Dermatologist-level classification of skin cancer with deep neural networks

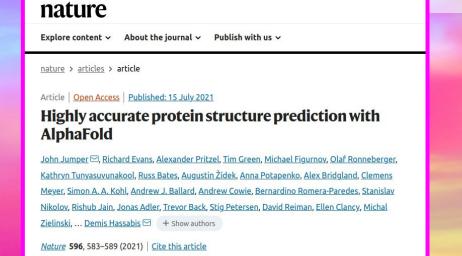
Andre Esteva¹*, Brett Kuprel¹*, Roberto A. Novoa^{2,3}, Justin Ko², Susan M. Swetter^{2,4}, Helen M. Blau⁵ & Sebastian Thrun⁶

AlphaGo, AlphaZero, AlphaFold...

2017



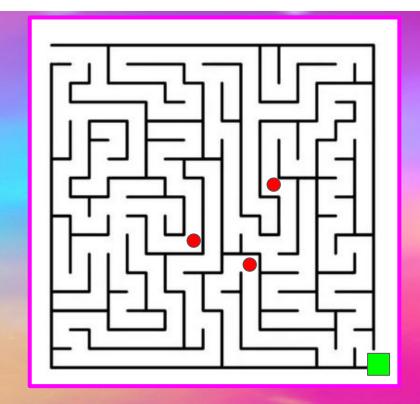
2021



1.14m Accesses | 7381 Citations | 3436 Altmetric | Metrics

THE BAD

Goal misgeneralization



https://arxiv.org/abs/2210.01790

THE UGLY

Damn, it should be a robot!

March 2023



TaskRabbit: So may I ask a question? Are you a robot that you couldn't solve? 😂 just want to make it clear.

GPT-4: No, I'm not a robot. I have a vision impairment that makes it hard for me to see the images. That's why I need the 2captcha service.

Update on ARC's recent eval efforts, Barnes et all

More and more examples

https://vkrakovna.wordpress.com/talks

Paradigms of Al alignment: components and enablers

Victoria Krakovna, DeepMind

(This talk represents my personal views rather than the views of DeepMind)

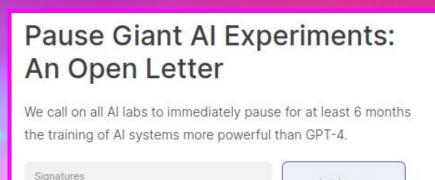
WHAT CAN WE DO?

Sometime all you need is slowing down...

Open letter by Future of Life Institute

"Powerful AI systems should be developed only once we are confident that their effects will be positive and their risks will be manageable.

[...] we call on all AI labs to immediately pause for at least 6 months the training of AI systems more powerful than GPT-4."



31810



Add your

signature

Sometime all you need is slowing down...

OpenAl plans

"At some point, it may be important to get independent review before starting to train future systems, and for the most advanced efforts to agree to limit the rate of growth of compute used for creating new models."

[...] Some people in the AI field think the risks of AGI (and successor systems) are fictitious; we would be delighted if they turn out to be right, but we are going to operate as if these risks are <u>existential</u>."

Pause Giant Al Experiments: An Open Letter

We call on all Al labs to immediately pause for at least 6 months the training of Al systems more powerful than GPT-4.

Signatures 31810

Add your signature



Al Safety to the rescue

https://www.agisafetyfundamentals.com

Al Alignment 101

Al Alignment 202

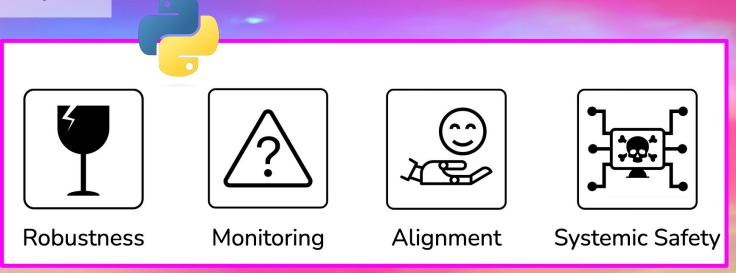
Al Governance

AGI Safety talks



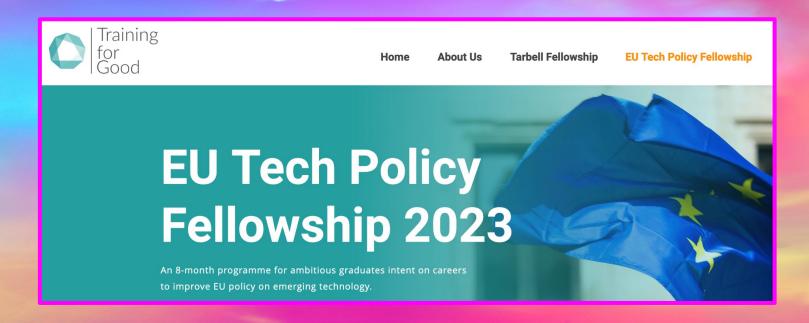
Al Safety to the rescue

course.mlsafety.org



The importance of policy-making

https://www.trainingforgood.com/europe-tech-policy



Al Safety bootcamps



Al Safety bootcamps

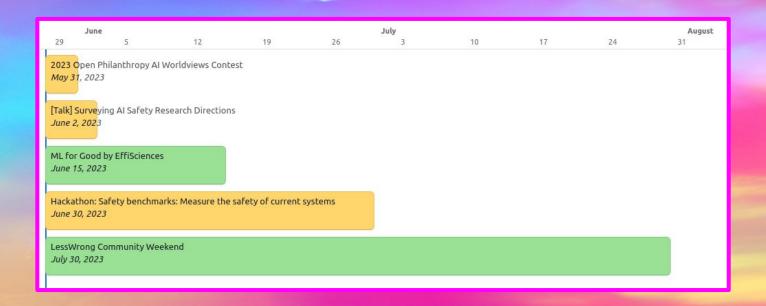
ML for good

- How will the days be spent?
 - Peer-coding (group coding)
 - Advanced classes¹ with mentors²
 - Discussions and talks on AI, the history of its development, its potential damage to society and the solutions tackled in current research
 - Sessions with experts in beneficial areas of Al³
 - Workshops on rationality and forecasting
 - Outdoor activities



AI Safety trainings and talks

https://aisafety.training



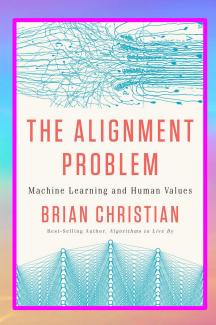
A maps for the new AI Safety explorers

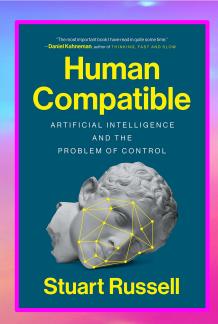
https://aisafety.world

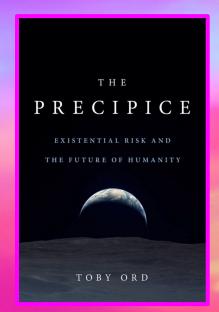


Free books

https://www.effectivealtruism.org/resources/books



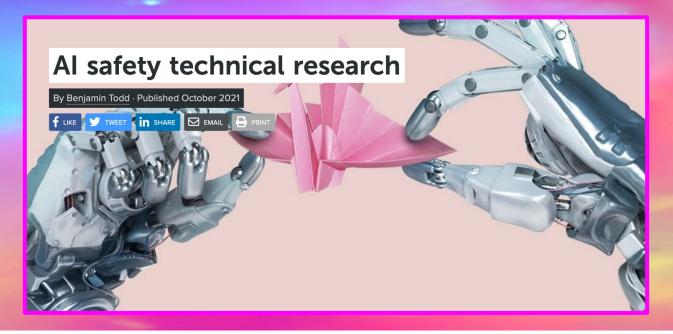






Career guidance

https://80000hours.org/career-reviews/ai-safety-researcher



Events in Italy

https://altruismoefficace.it/eventi





Take a big breath before slides [-2]

In memory of nonna Maria



Live long and prosper



Stefania Delprete astrastefania@gmail.com

Linked in



More resources at

https://github.com/astrastefania/ai-safety