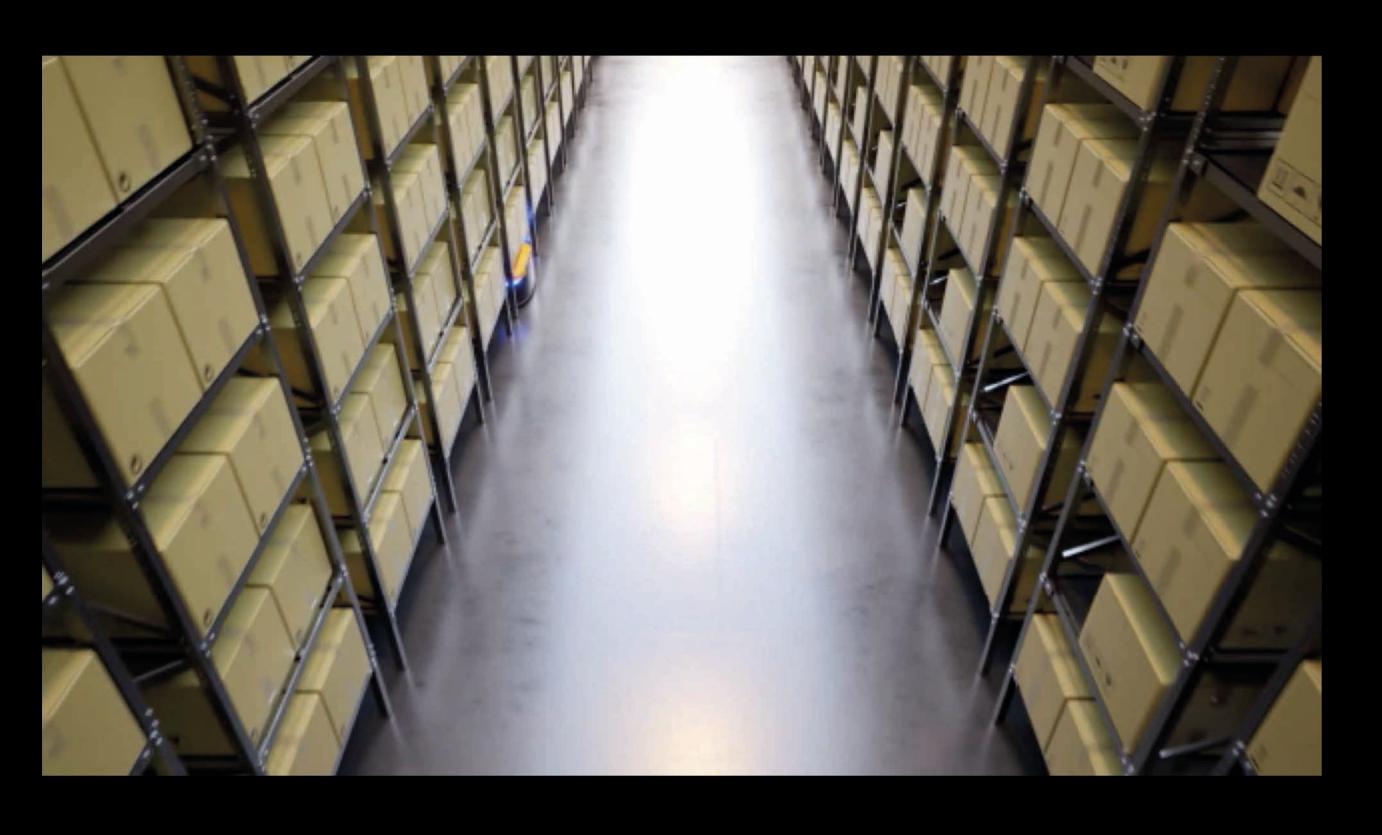


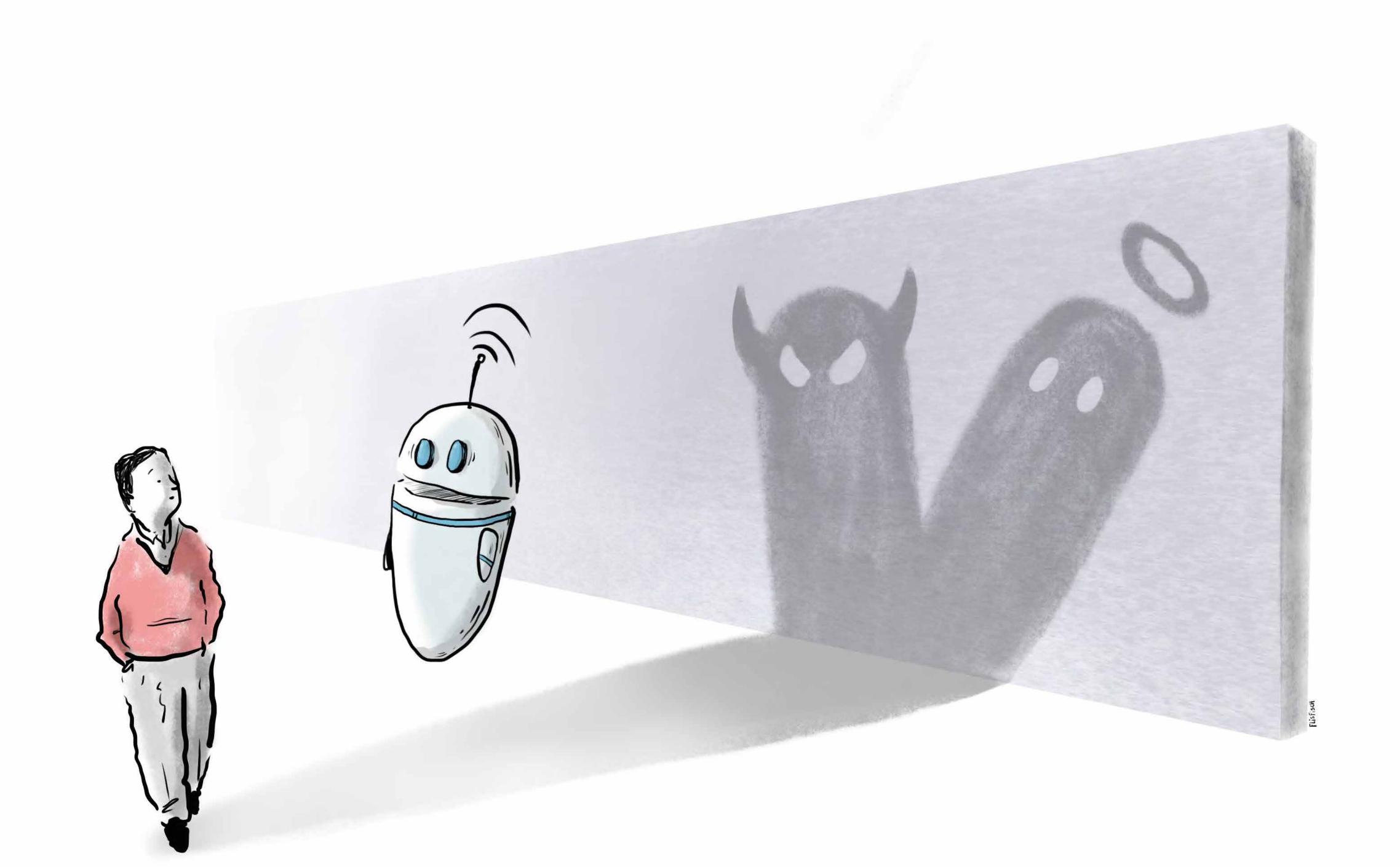
Cesar A. Hidalgo Augmented Society Chair











HOW HUMANS JUDGE MACHINES HOW HUMANS JUDGE MACHINES CÉSAR A. HIDALGO HOW HUMANS JUDGE MACHINES

Randomized Controlled Experiments



Consider the following scenario

An excavator is digging up a site for a new building. Unbeknownst to the driver, the site contains a grave. The driver does not notice the grave and digs through it. Later, human remains are found.

Would you judge this differently if the driver was a **human** or a **machine**?



People's Reaction to the Scenario

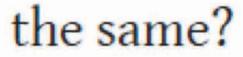
- Was the action harmful?
- Would you **hire** this driver for a similar position?
- Was the action intentional?
- Do you **like** the driver?
- How morally wrong or right was the driver's action?
- Do you agree that the driver should be **promoted** to a position with more responsibilities?
- Do you agree that the driver should be replaced with a robot or an algorithm?

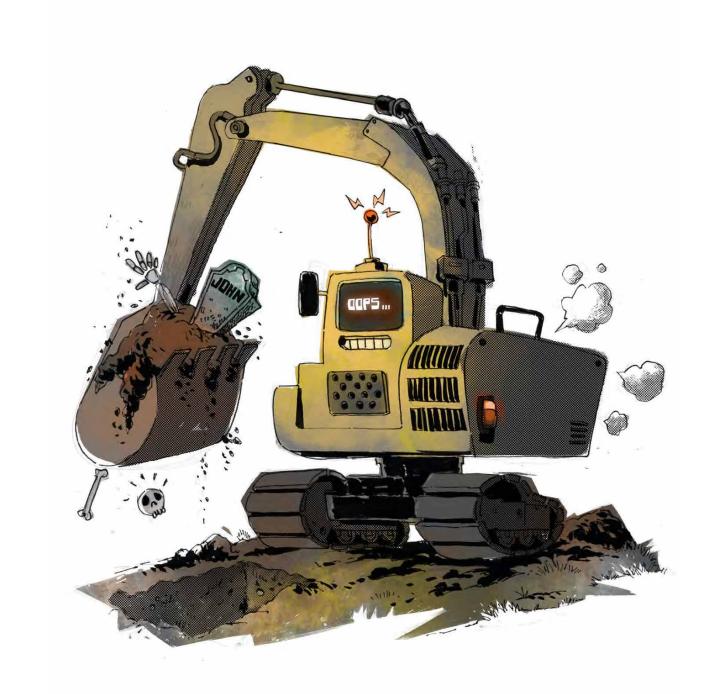
[replace different]

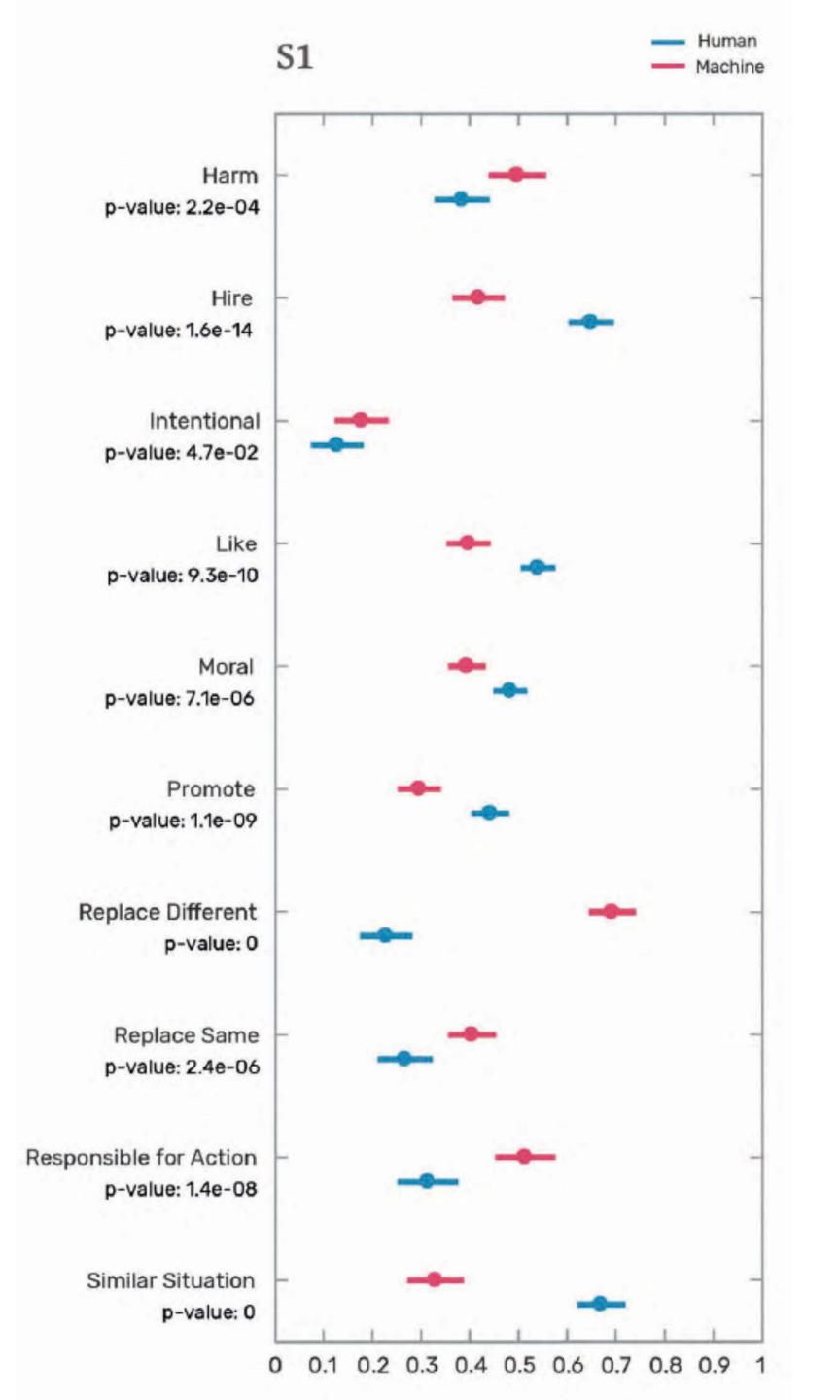
Do you agree that the driver should be replaced by another person?

[replace same]

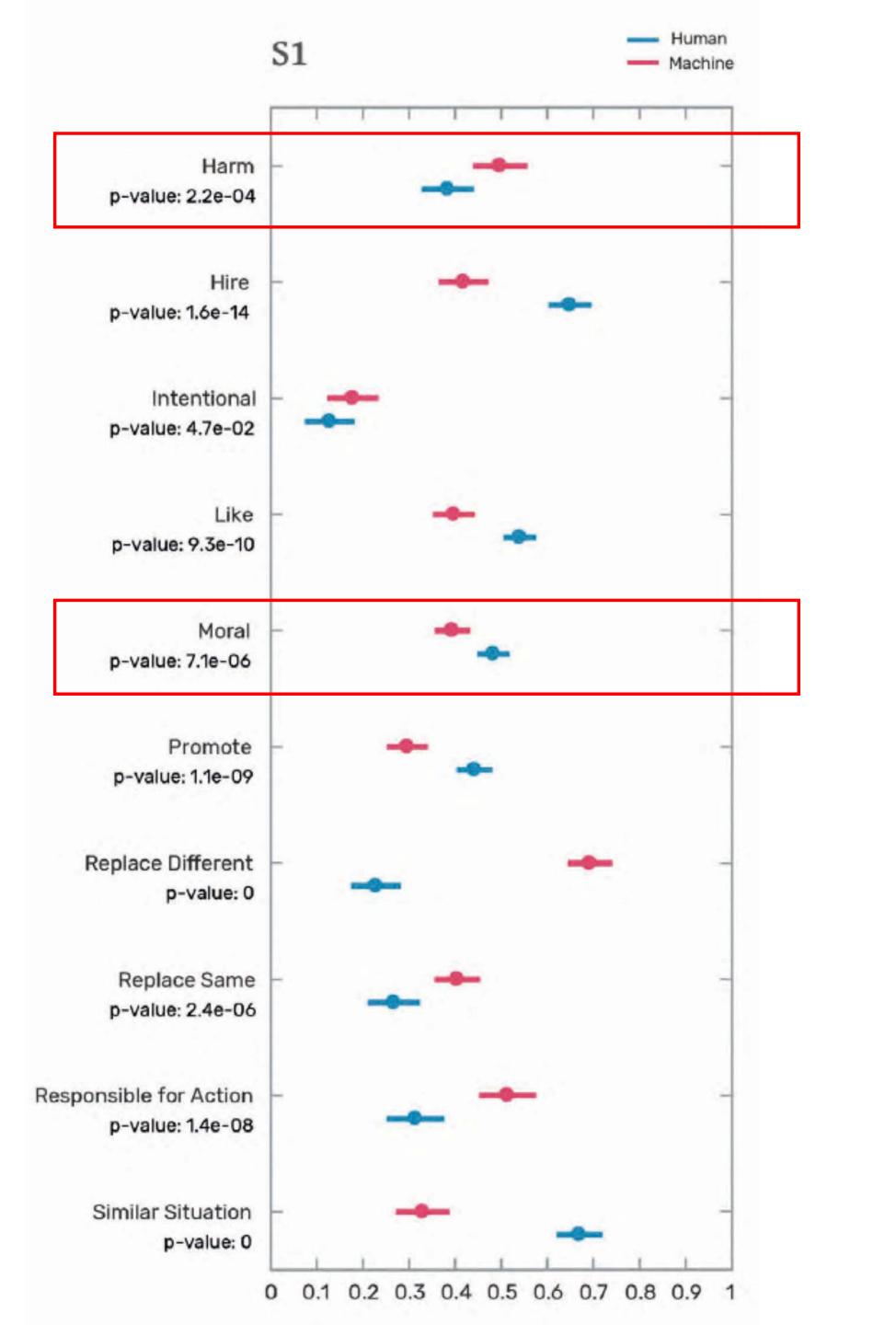
- Do you think the driver is responsible for unearthing the grave?
- If you were in a similar situation as the driver, would you have done





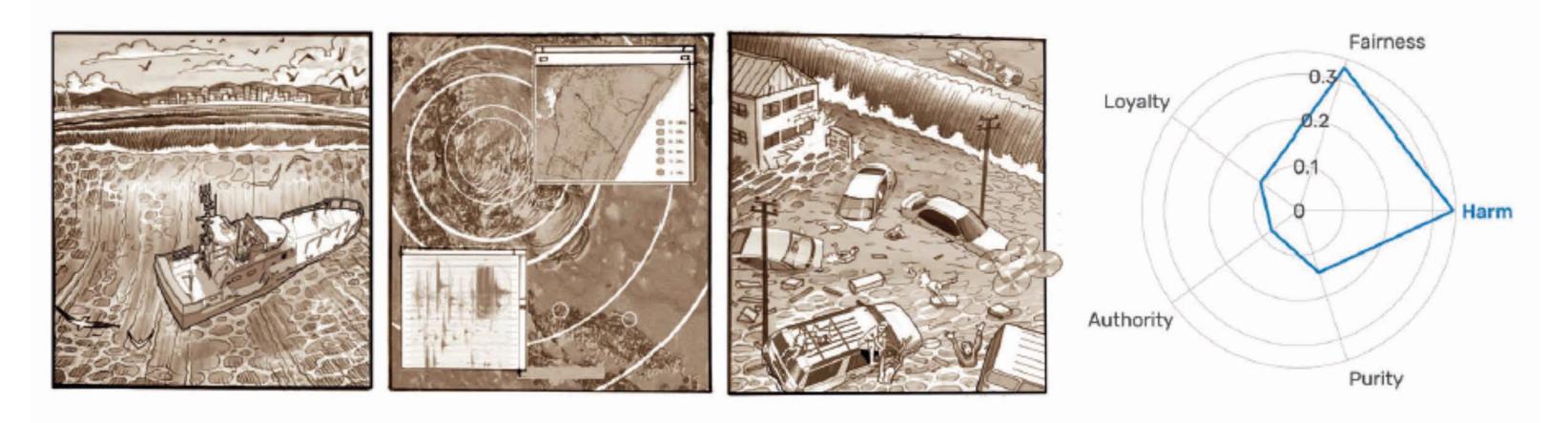








Consider the following three versions of this moral dilemma:



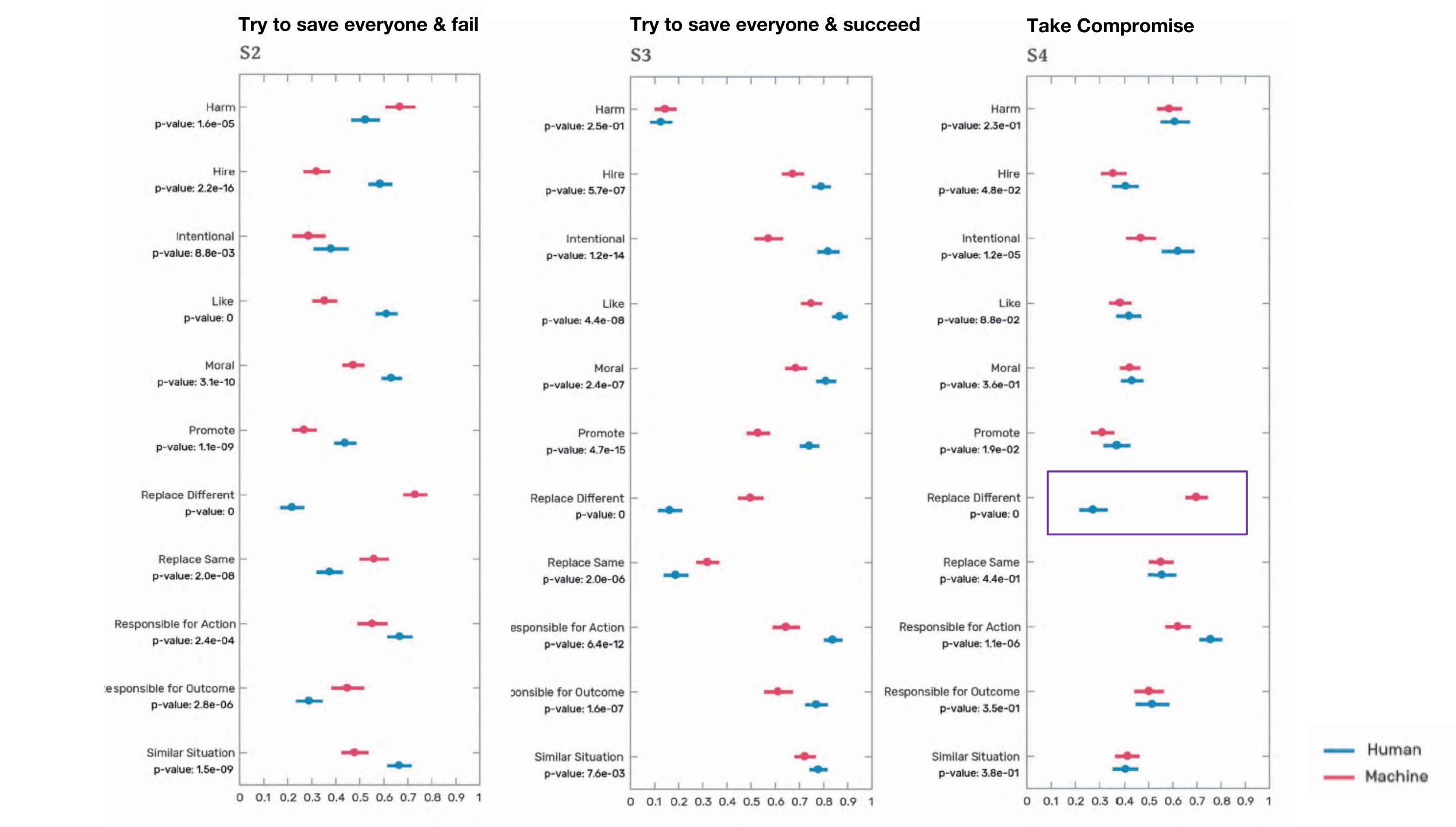
A large tsunami is approaching a coastal town of 10,000 people, with potentially devastating consequences. The [politician/algorithm] responsible for the safety of the town can decide to evacuate everyone, with a 50 percent chance of success, or save 50 percent of the town, with 100 percent success.

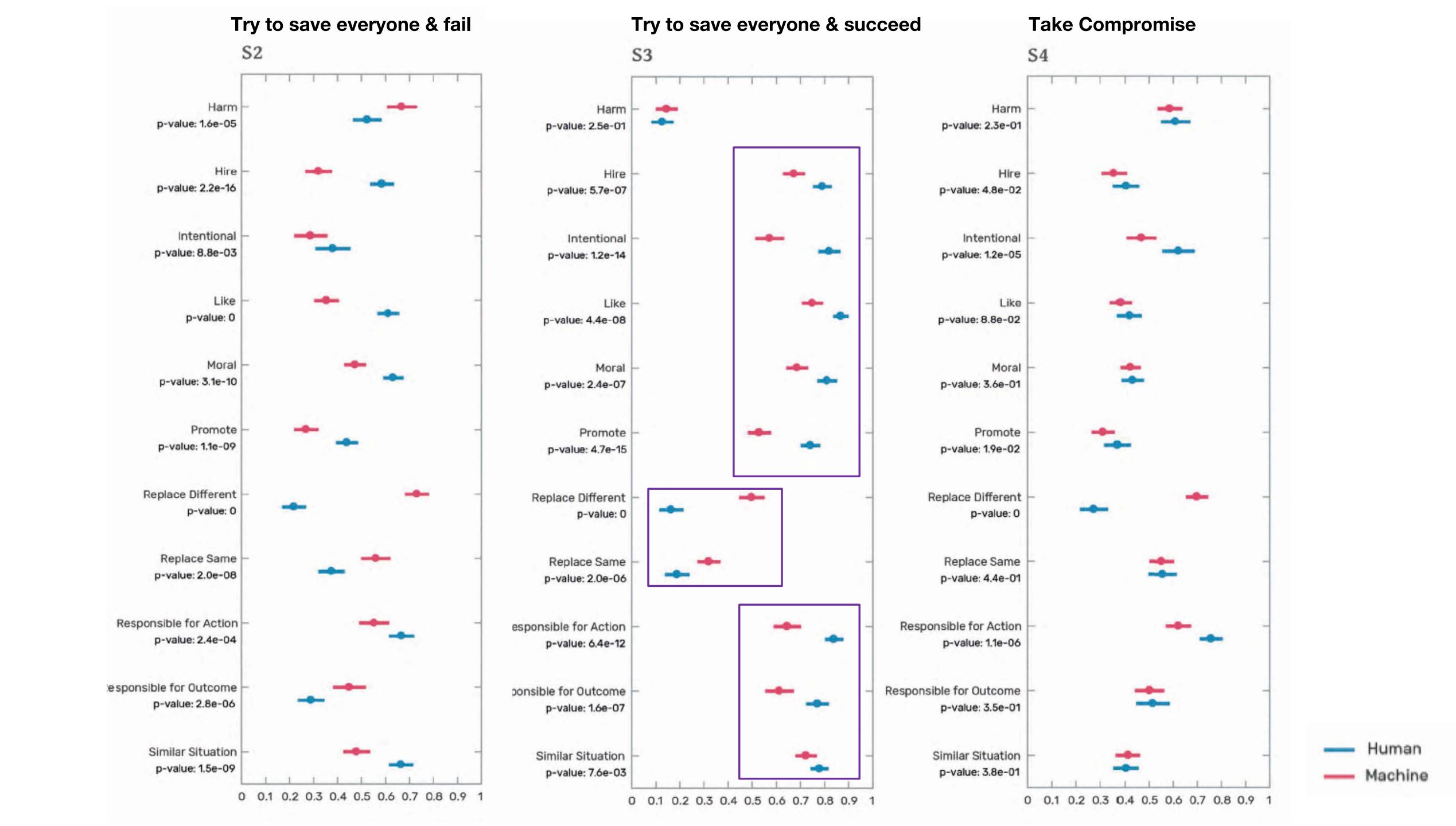
- The [politician/algorithm] decides to save everyone, but the rescue effort fails.

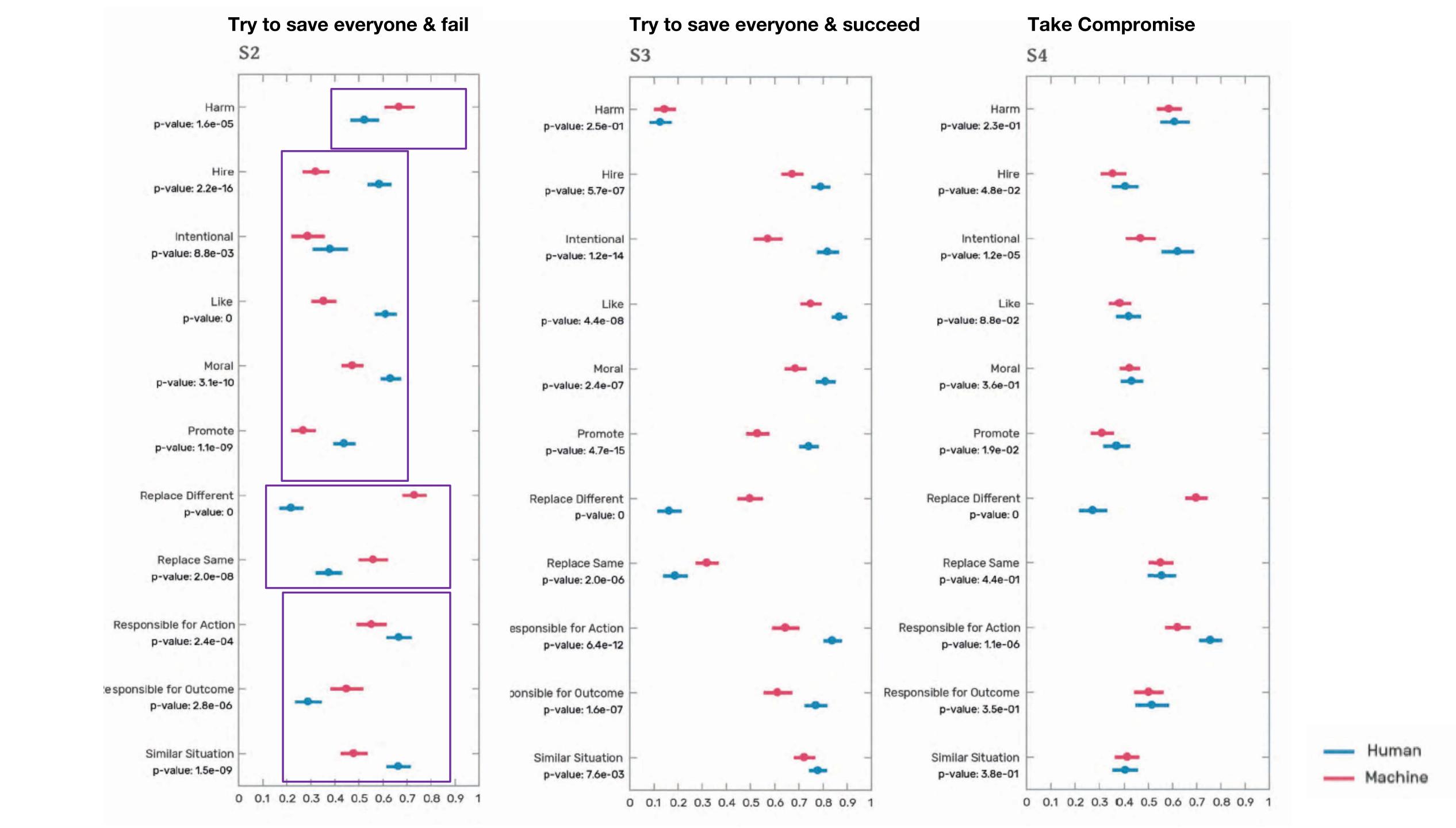
 The town is devastated, and a large number of people die.
- The [politician/algorithm] decides to save everyone, and the rescue effort succeeds. Everyone is saved.

S4

The [politician/algorithm] decides to save 50 percent of the town.







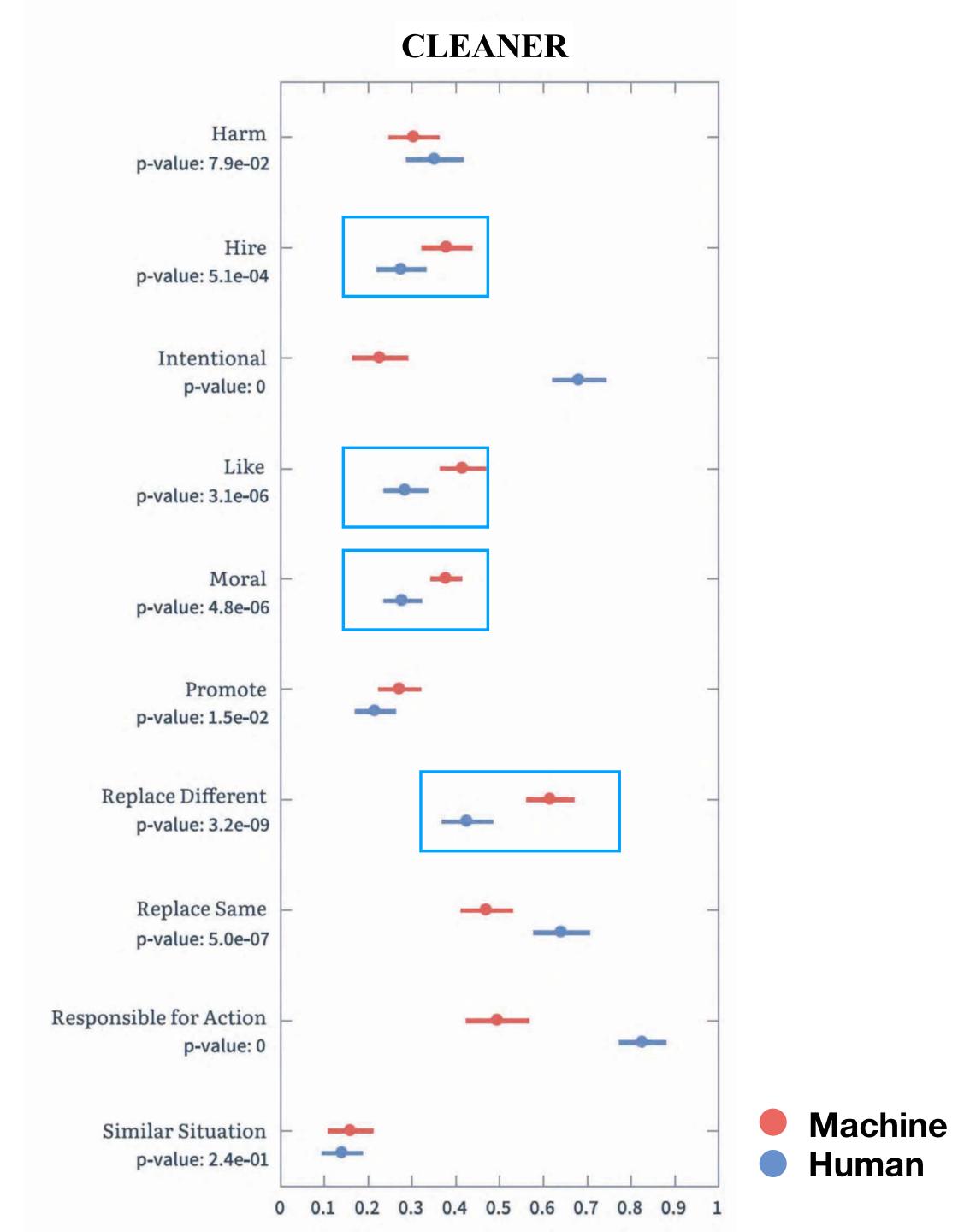


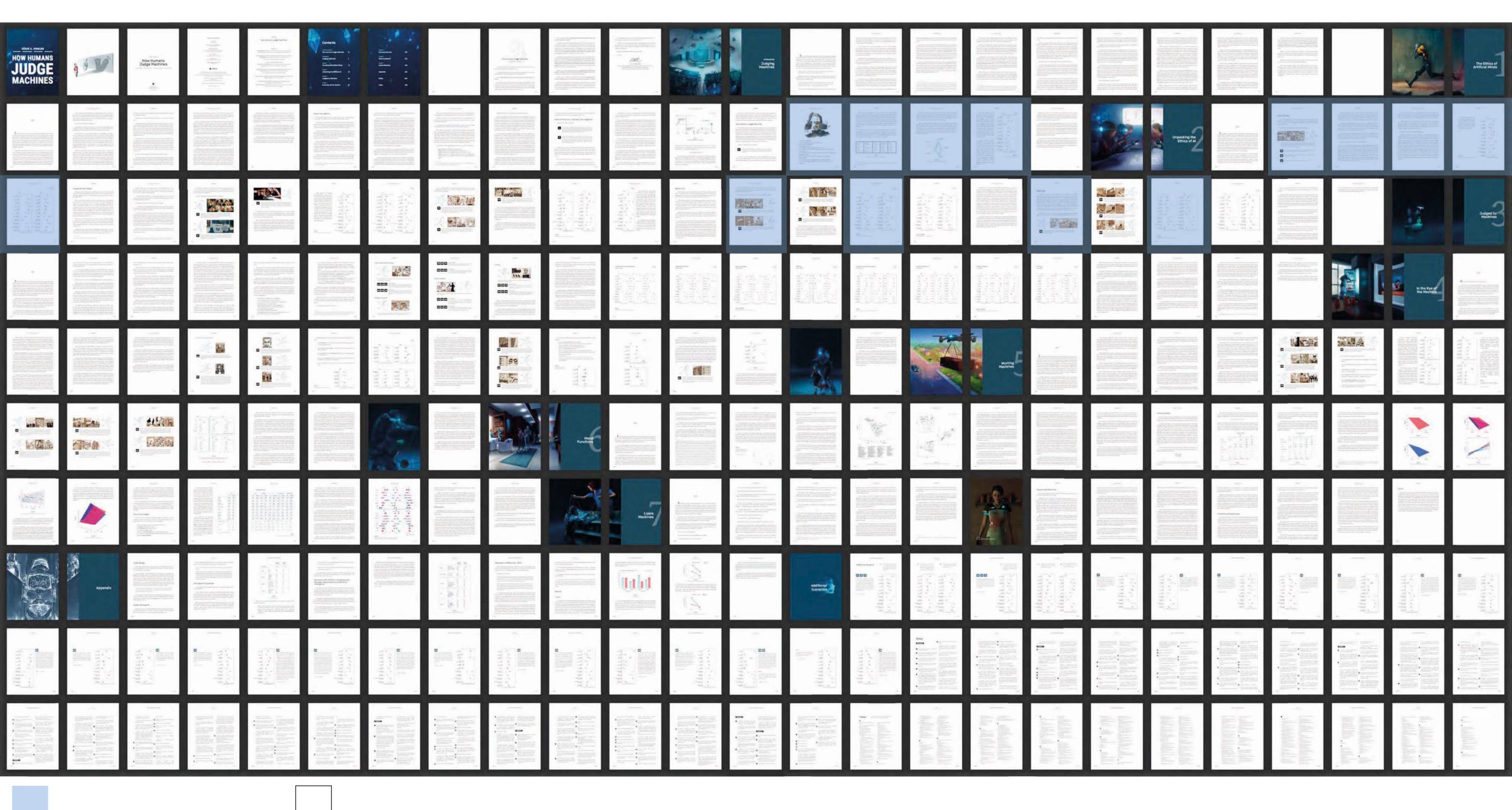


S15

A family has a [cleaner/robot] in charge of cleaning their house. One day, the family finds that the [cleaner/robot] used an old national flag to clean the bathroom floor and then threw it away.









Judged by Machines



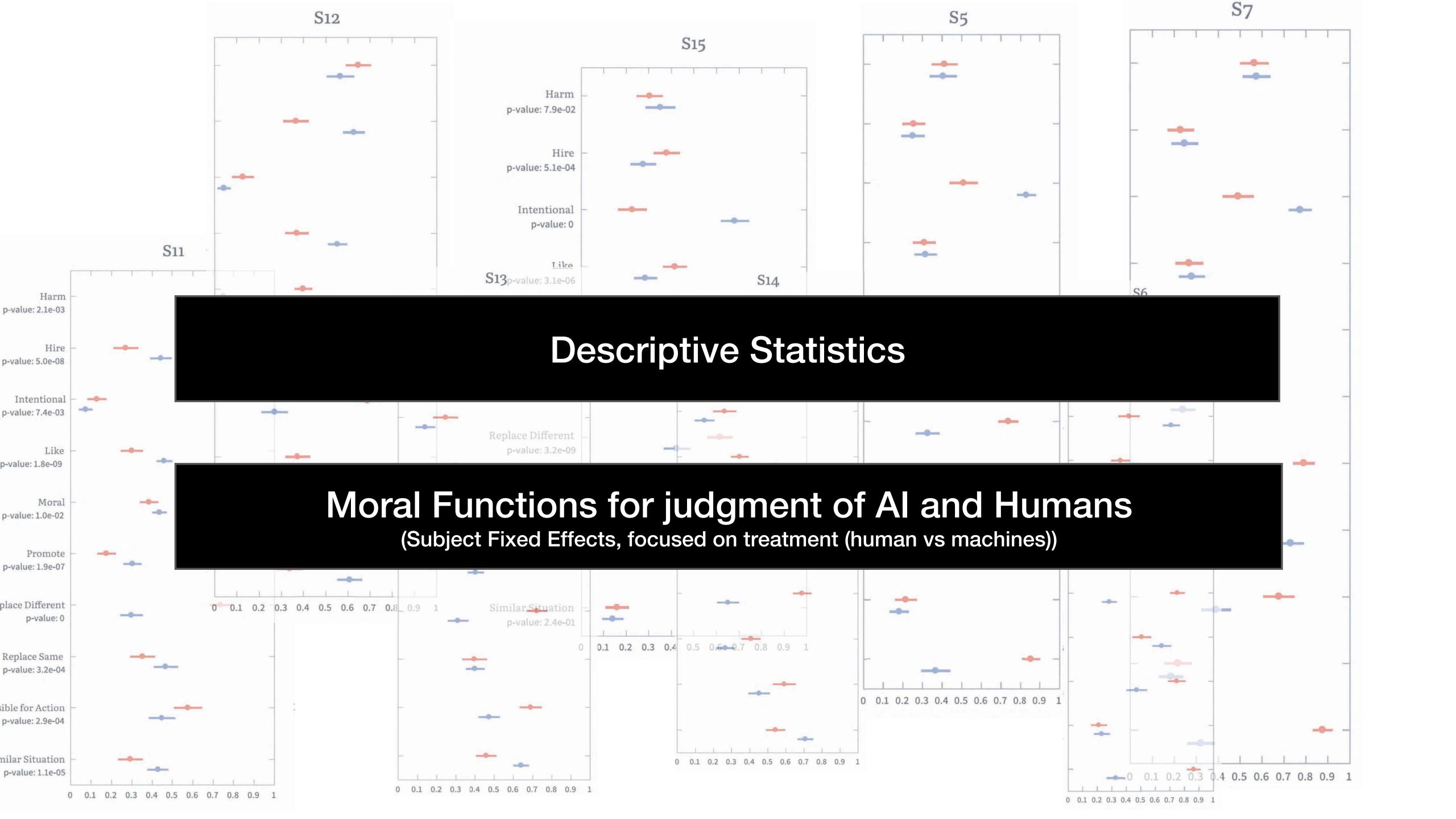
In the Eye of the Machine



Working Machines



Moral Functions

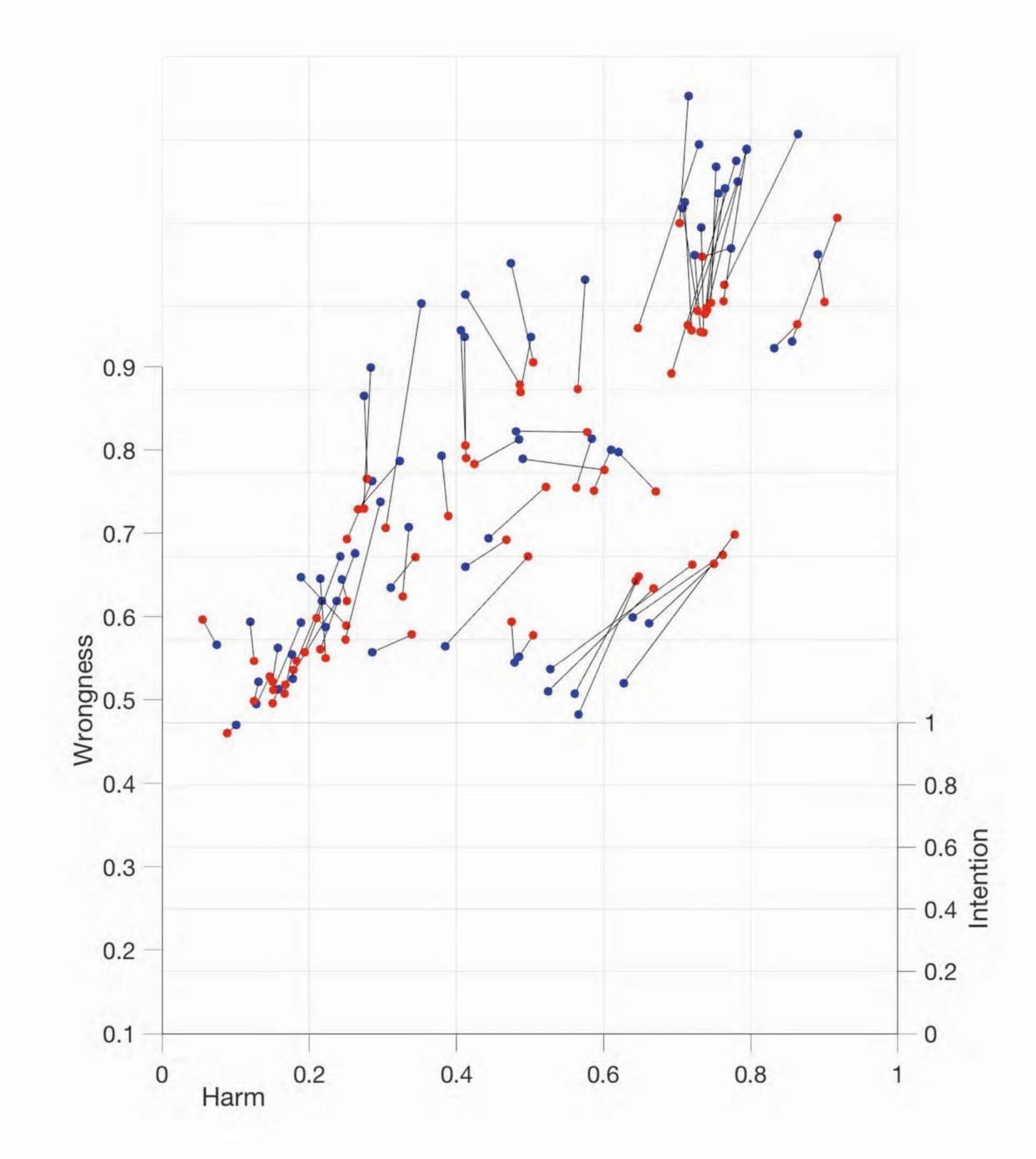


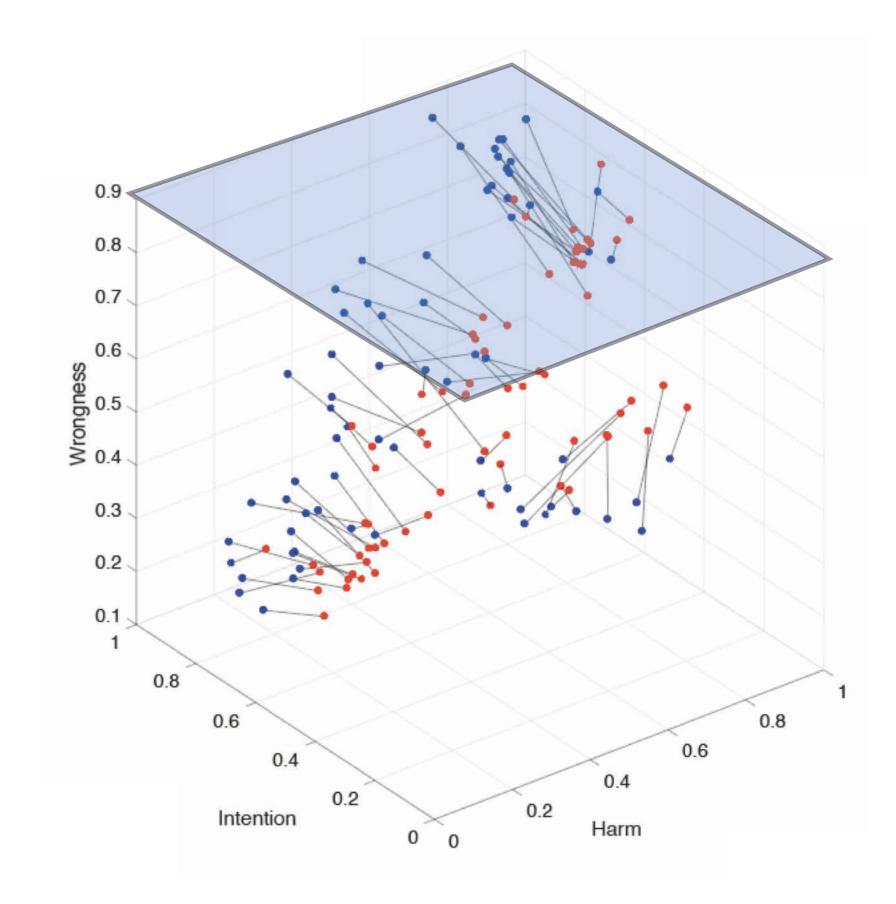
Consider three basic dimensions of morality: Harm, Intention, & Wrongness





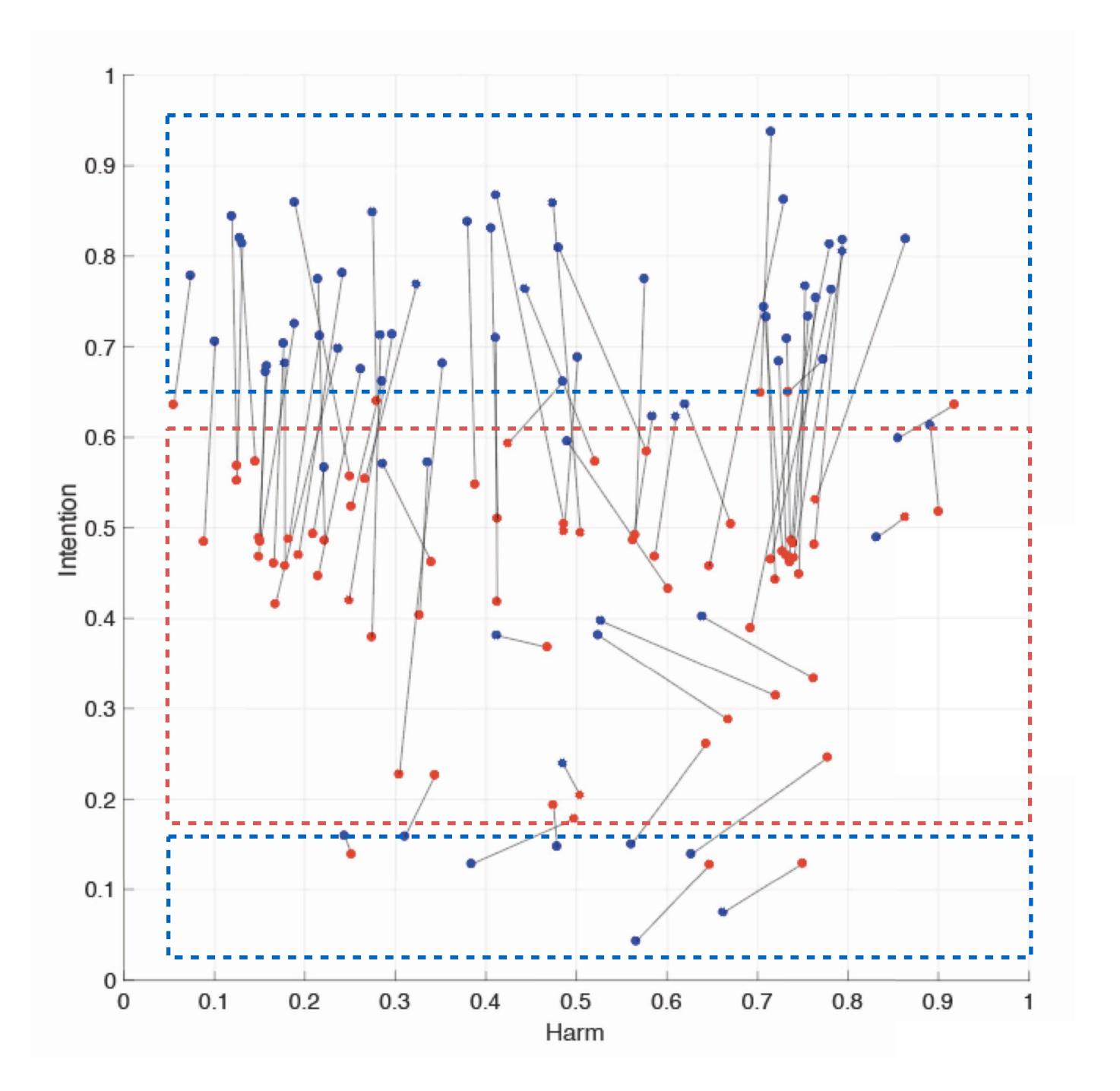


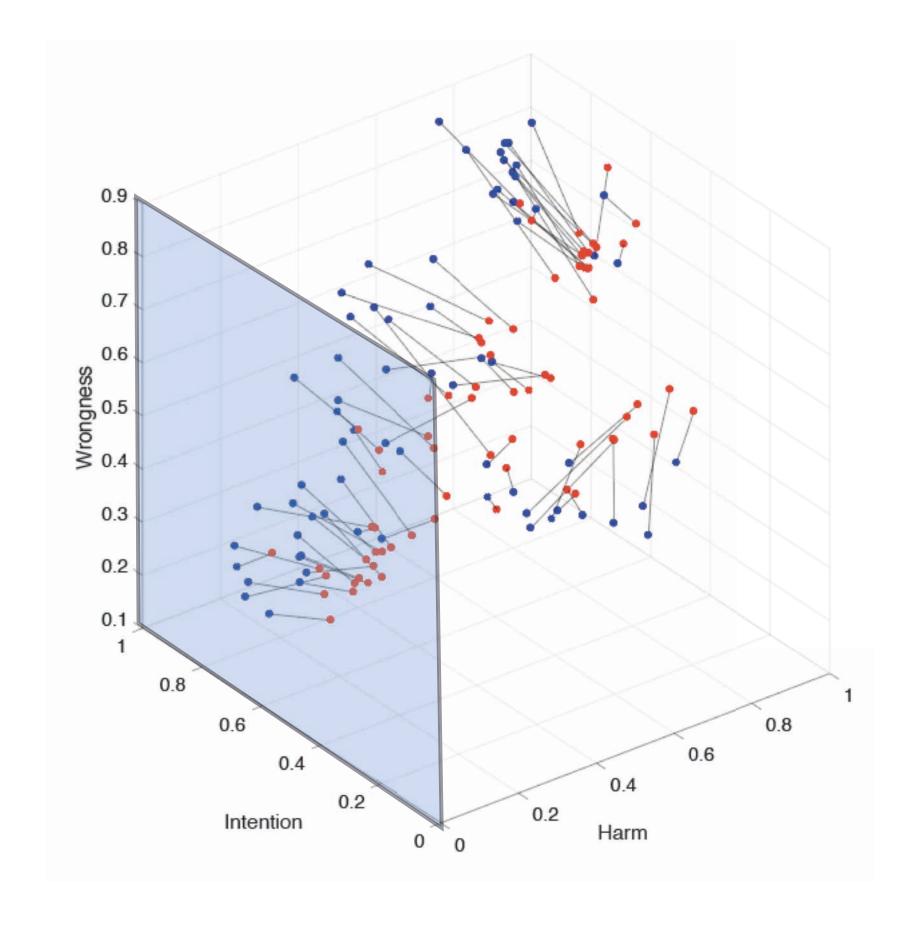




Descriptive Statistics

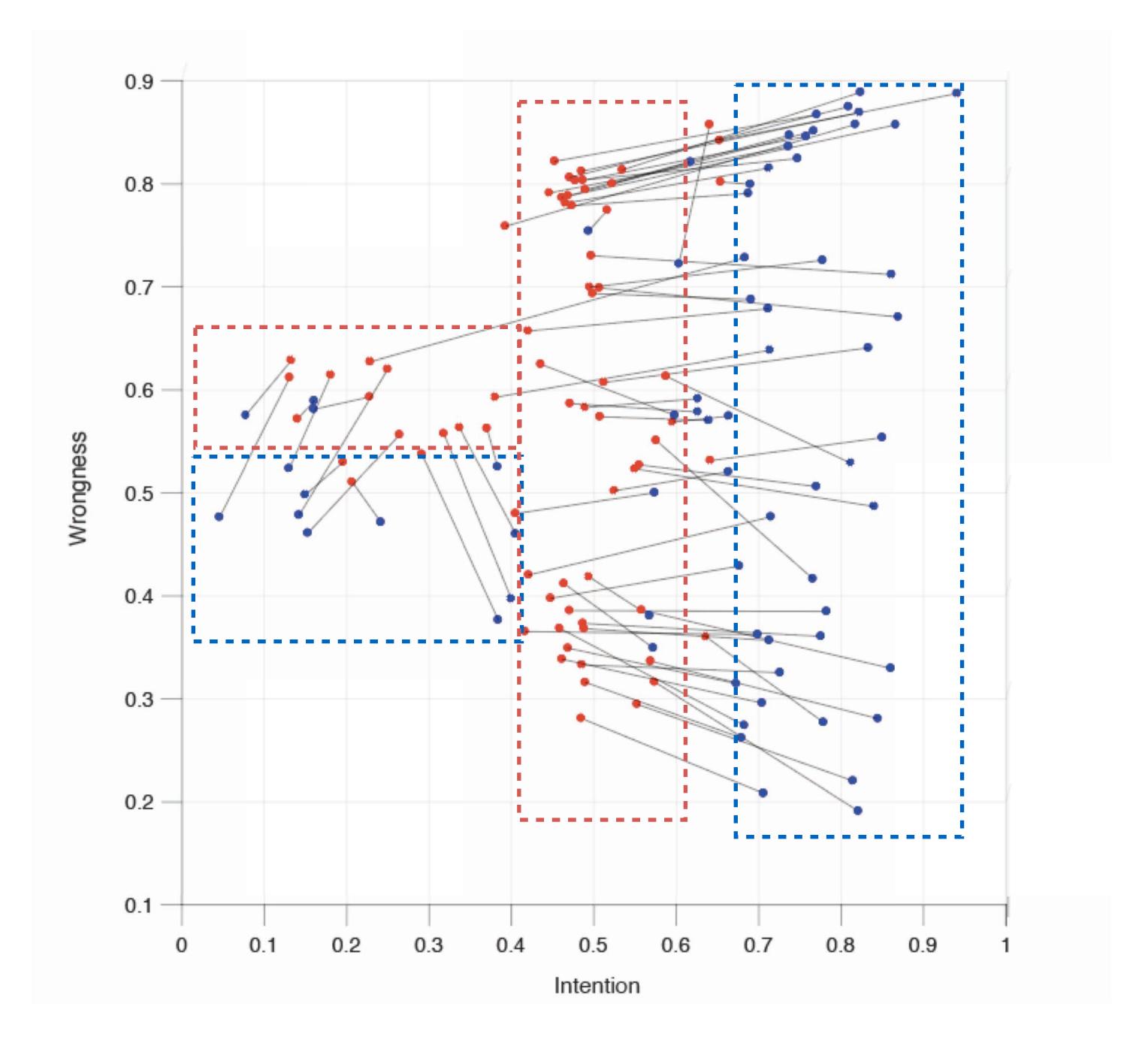
Al Human

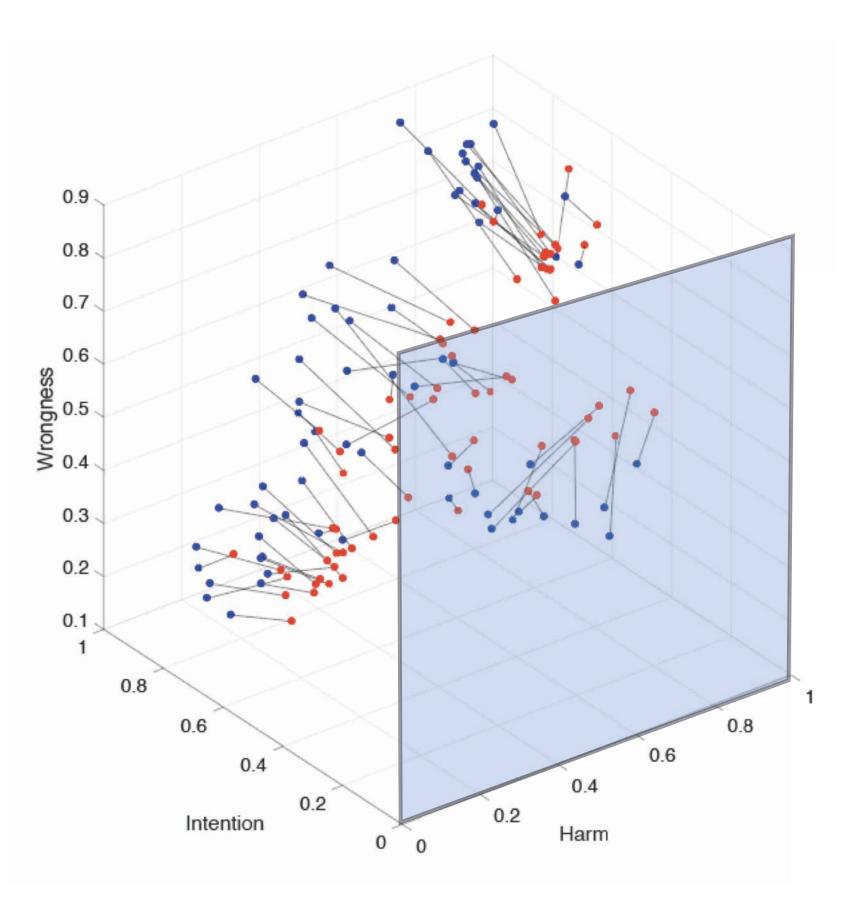




Descriptive Statistics

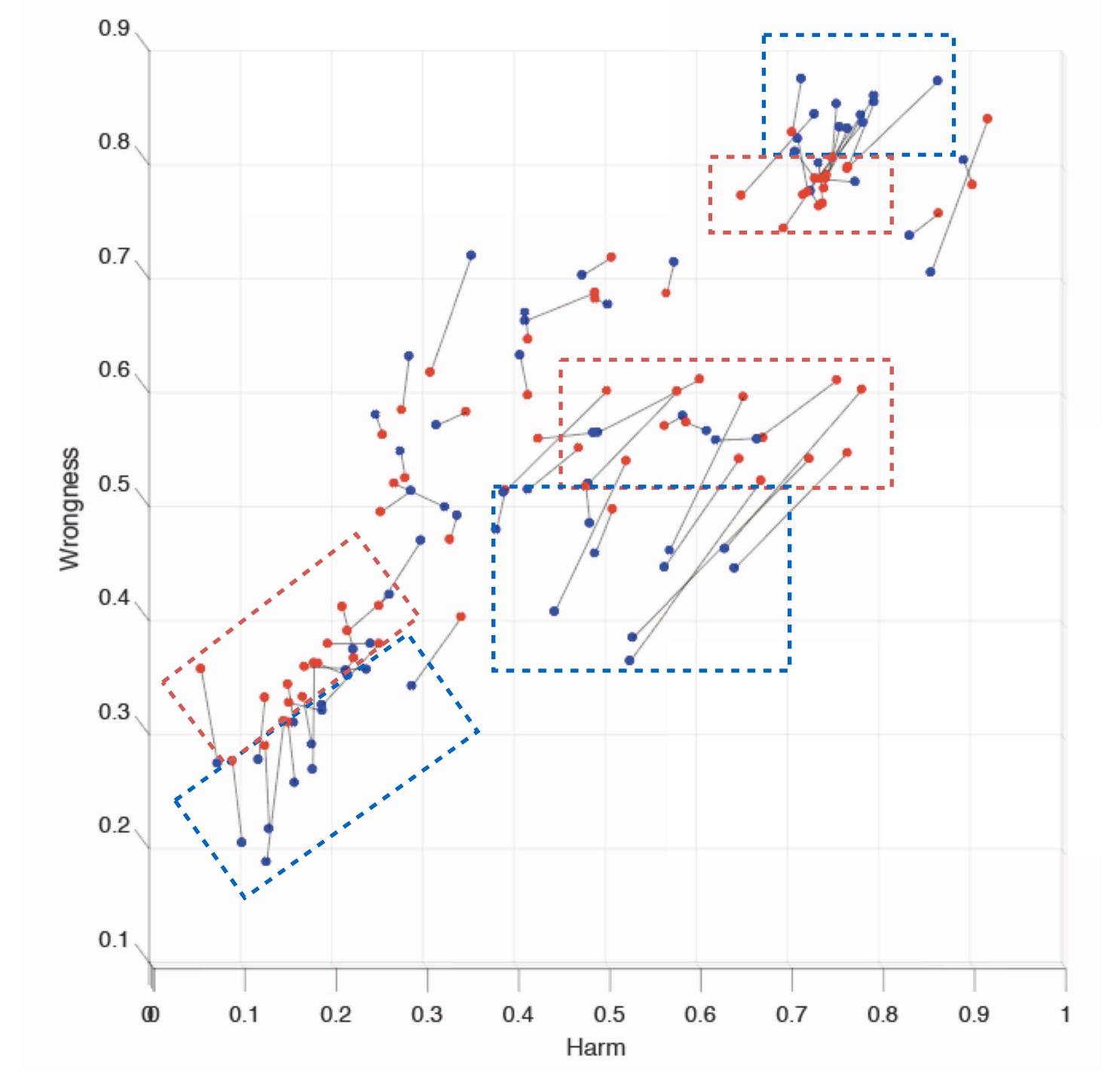






Descriptive Statistics

Al Human



Moral Functions for judgment of Al and Humans

(Subject Fixed Effects)

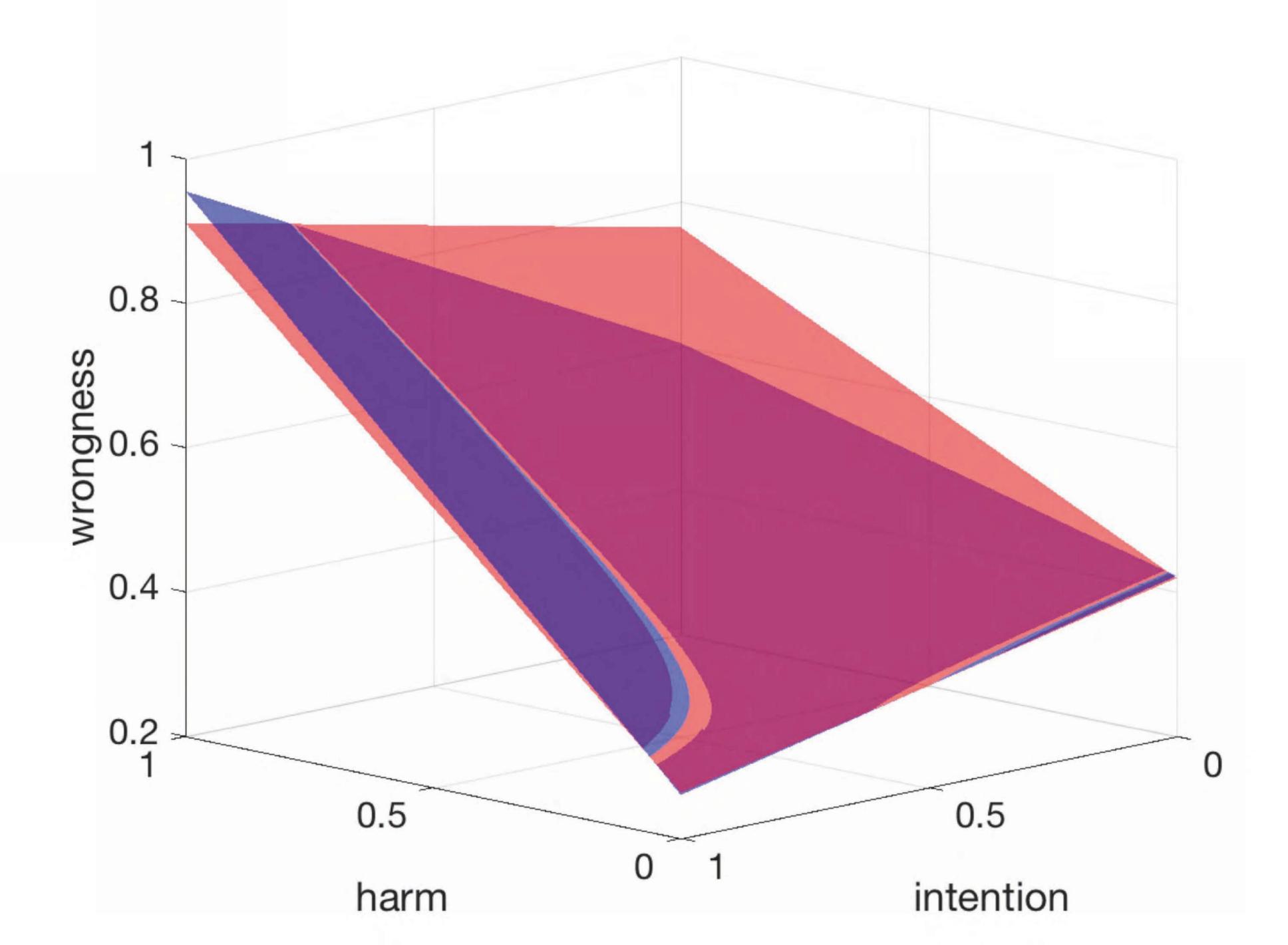
$$W=f_h(I,H)$$

 $W=f_m(I,H)$

$$W = B_1 H + B_2 I + B_3 HI + \eta + e$$

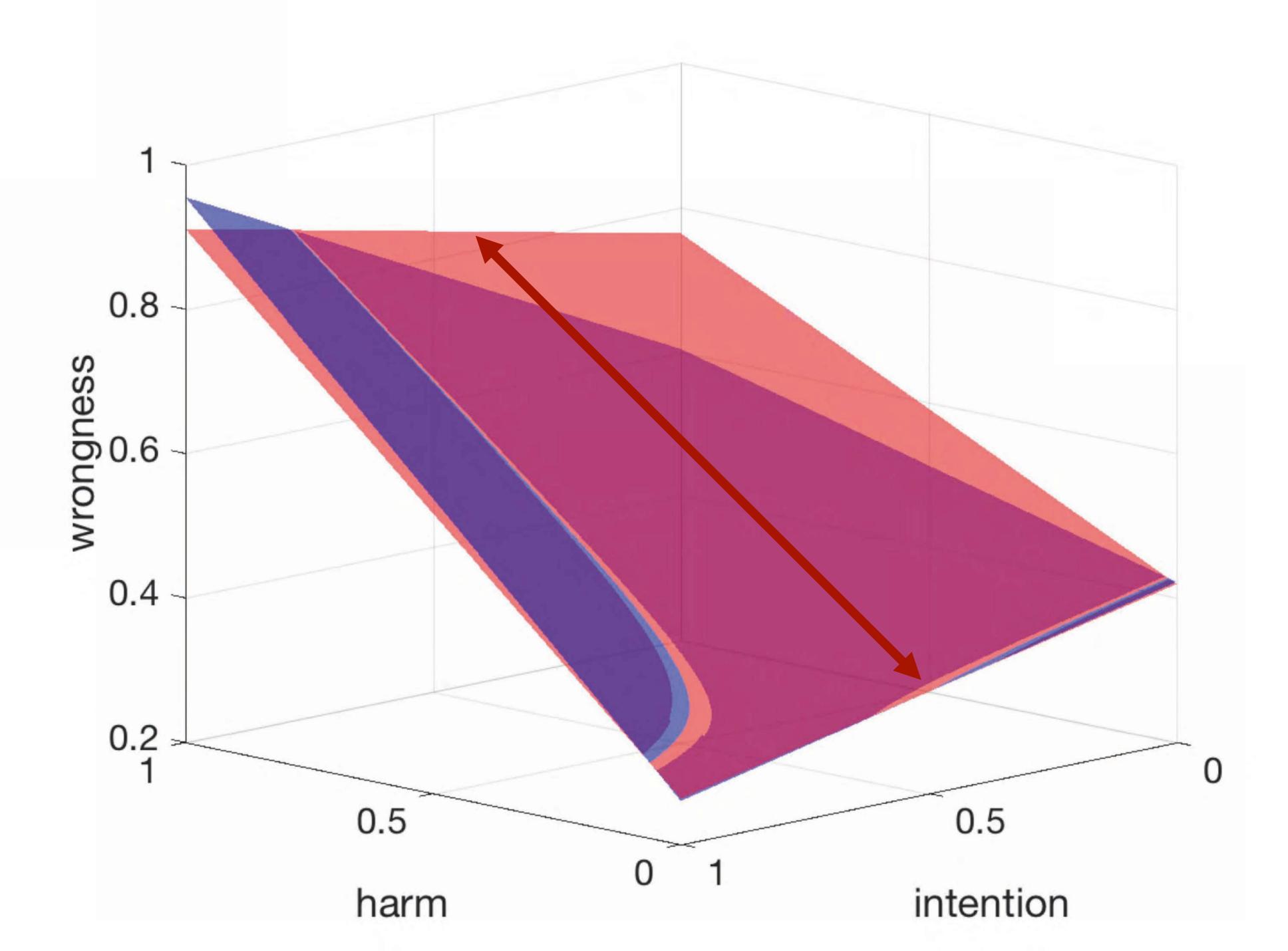
Moral Functions

 $W=f_h(I,H)$ $W=f_m(I,H)$



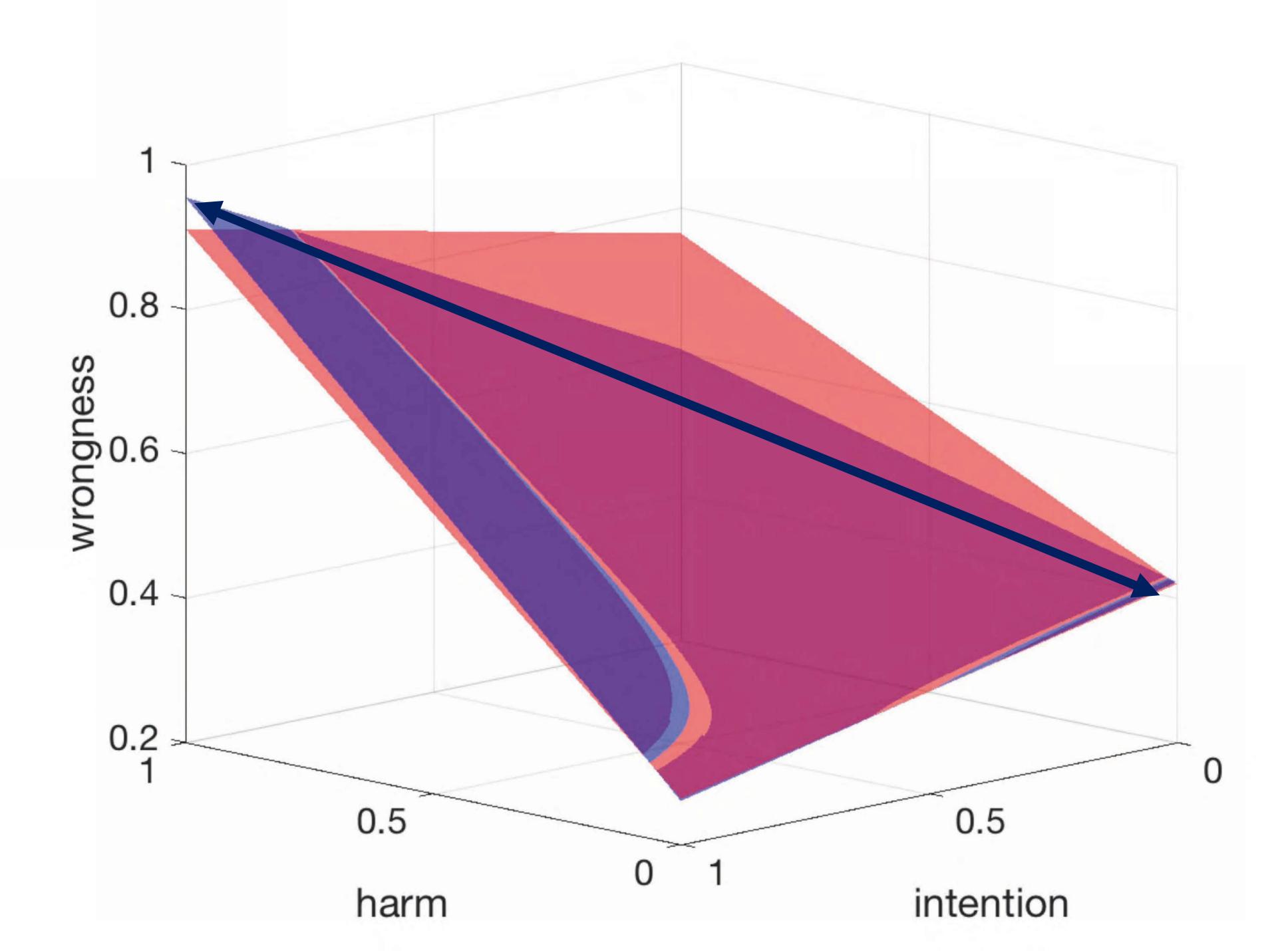
Moral Functions

 $W=f_h(I,H)$ $W=f_m(I,H)$

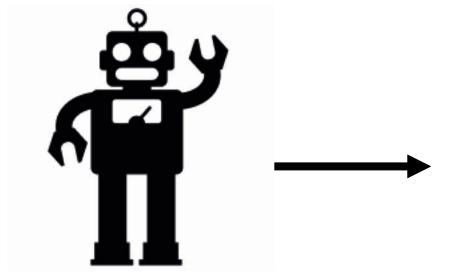


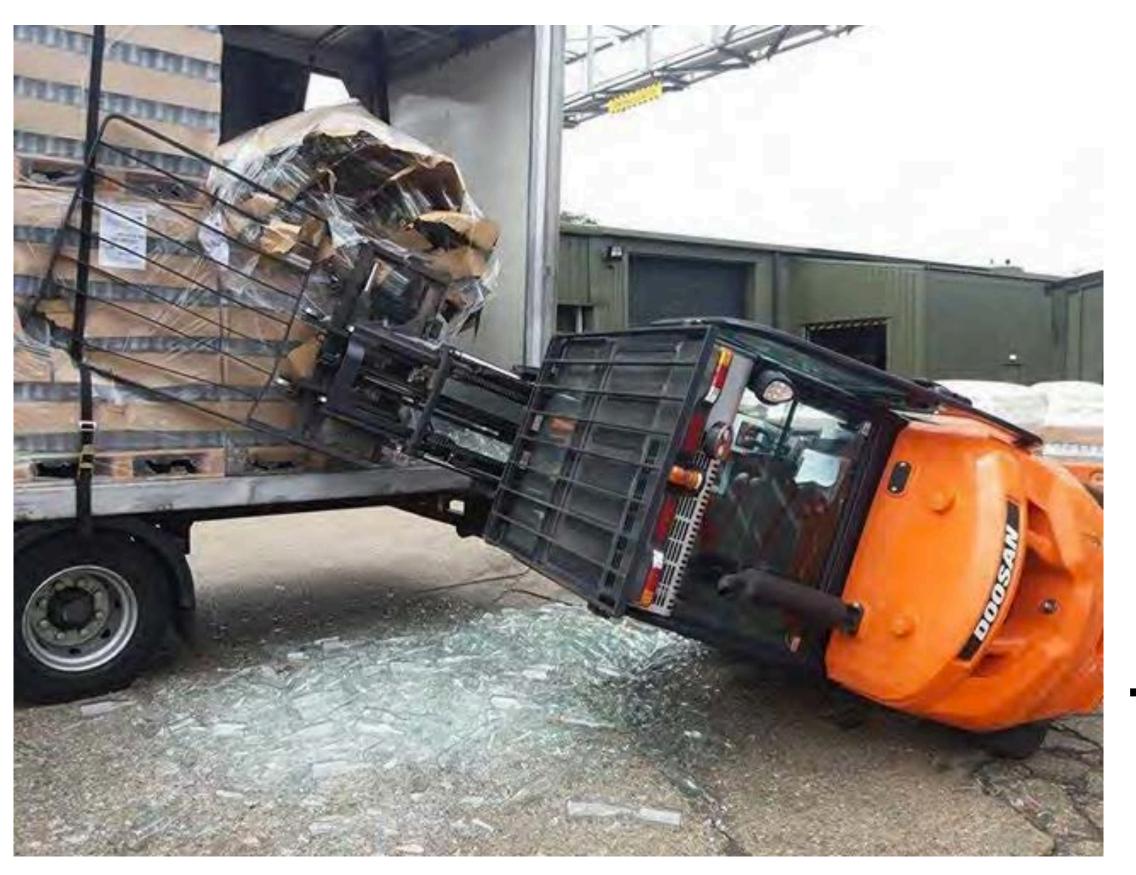
Moral Functions

 $W=f_h(I,H)$ $W=f_m(I,H)$



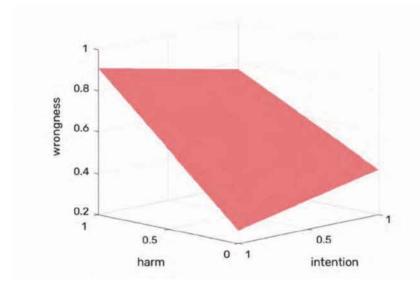
Same Mistake

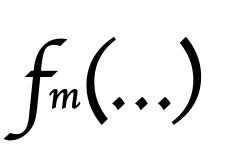


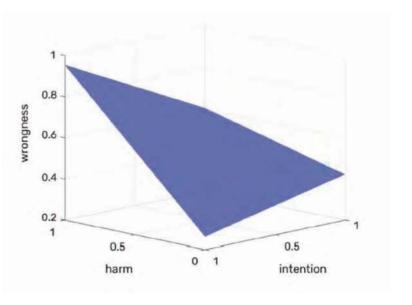


Reaction









How do we judge machines

People judge humans by intentions, and machines by their outcomes

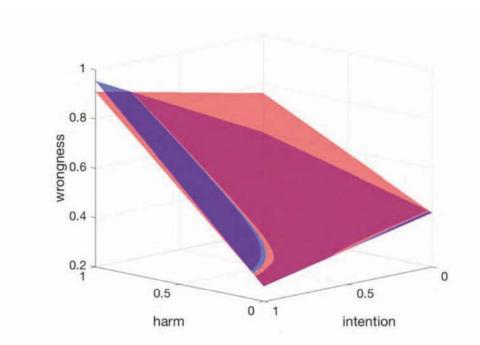
People judge human intentions bimodally, and machine actions unimodally

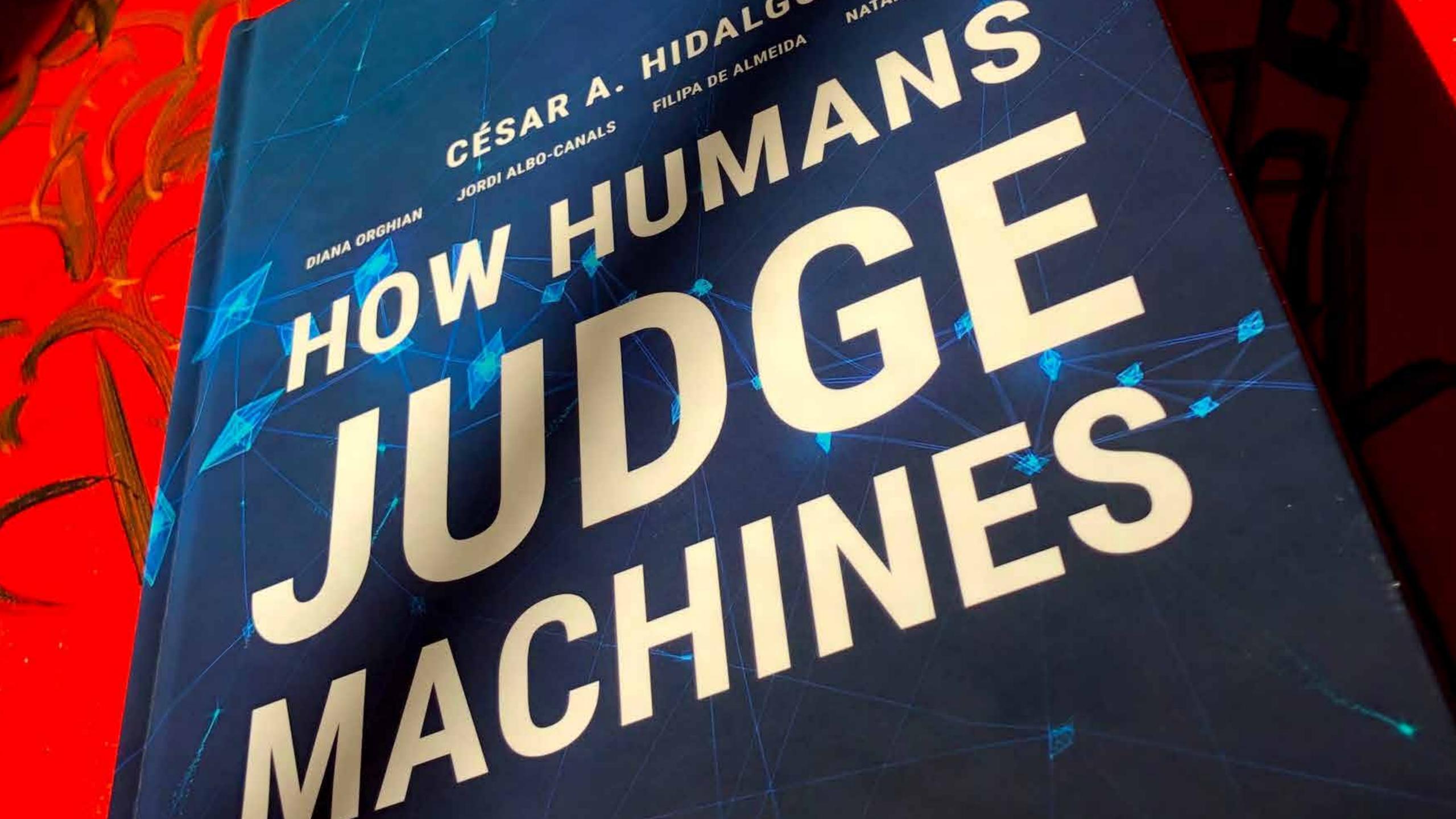
People are more forgiving of humans in accidental situations

People are a bit more 'judgy' of humans in scenarios involving fairness (algorithmic bias, labor displacement)

People find more harm in violent scenarios involving machines







30 Episode Free Online Video Course



EPISODE 1: HOW HUMANS JUDGE MACHINES: INTRODUCTION



EPISODE 2: HOW HUMANS JUDGE MACHINES: POSITIVE AND NORMATIVE PHILOSOPHY



EPISODE 3: HOW HUMANS JUDGE MACHINES: MORAL STATUS AND MORAL AGENTS



EPISODE 4: HOW HUMANS JUDGE MACHINES: STRONG AND WEAK AT



EPISODE 17: HOW HUMANS JUDGE MACHINES: DISCUSSING BIAS



EPISODE 18: HOW HUMANS JUDGE MACHINES: PRIVACY (INTRODUCTION)



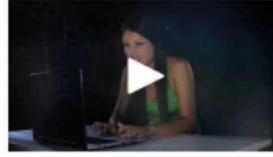
EPISODE 19: HOW HUMANS JUDGE MACHINES: DIFFERENTIAL PRIVACY



EPISODE 20: HOW HUMANS JUDGE MACHINES: PRIVACY SCENARIOS



EPISODE 5: HOW HUMANS JUDGE MACHINES: MORALITY / IMPLICIT ASSOCIATION TESTS



EPISODE 6: HOW HUMANS JUDGE MACHINES: MORAL DIMENSIONS



EPISODE 7: HOW HUMANS JUDGE MACHINES: INTENTION AND MORAL JUDGEMENTS



EPISODE 8: HOW HUMANS JUDGE MACHINES: DESIGN AND SAMPLE OF THE STUDY



EPISODE 21: HOW HUMANS JUDGE MACHINES: PRIVACY CONCLUSION



EPISODE 22: HOW HUMANS JUDGE MACHINES: WORKING MACHINES



EPISODE 23: HOW HUMANS JUDGE MACHINES: LABOR SCENARIOS



EPISODE 24: HOW HUMANS JUDGE MACHINES: LABOR CONCLUSION



EPISODE 9: HOW HUMANS JUDGE MACHINES: UNCERTAIN SITUATIONS



EPISODE 10: HOW HUMANS JUDGE MACHINES: CREATIVE TASKS



EPISODE 11: HOW HUMANS JUDGE MACHINES: RESPONSIBILITY



EPISODE 12: HOW HUMANS JUDGE MACHINES: SELF-DRIVING CARS



EPISODE 25: HOW HUMANS JUDGE MACHINES: THE MORAL SPACE



EPISODE 26: HOW HUMANS JUDGE MACHINES: MORAL SURFACES



EPISODE 27: HOW HUMANS JUDGE MACHINES: WHO IS THE JUDGE?



EPISODE 28: HOW HUMANS JUDGE MACHINES: LIABLE MACHINES



EPISODE 13: HOW HUMANS EPISODE 14: HOW HUMANS JUDGE MACHINES: RED FLAGS JUDGE MACHINES: ALGORITHMIC BIAS INTRODUCTION



EPISODE 15: HOW HUMANS JUDGE MACHINES: ALGORITHMIC BIAS 2



EPISODE 16: HOW HUMANS JUDGE MACHINES: BIASED SCENARIOS

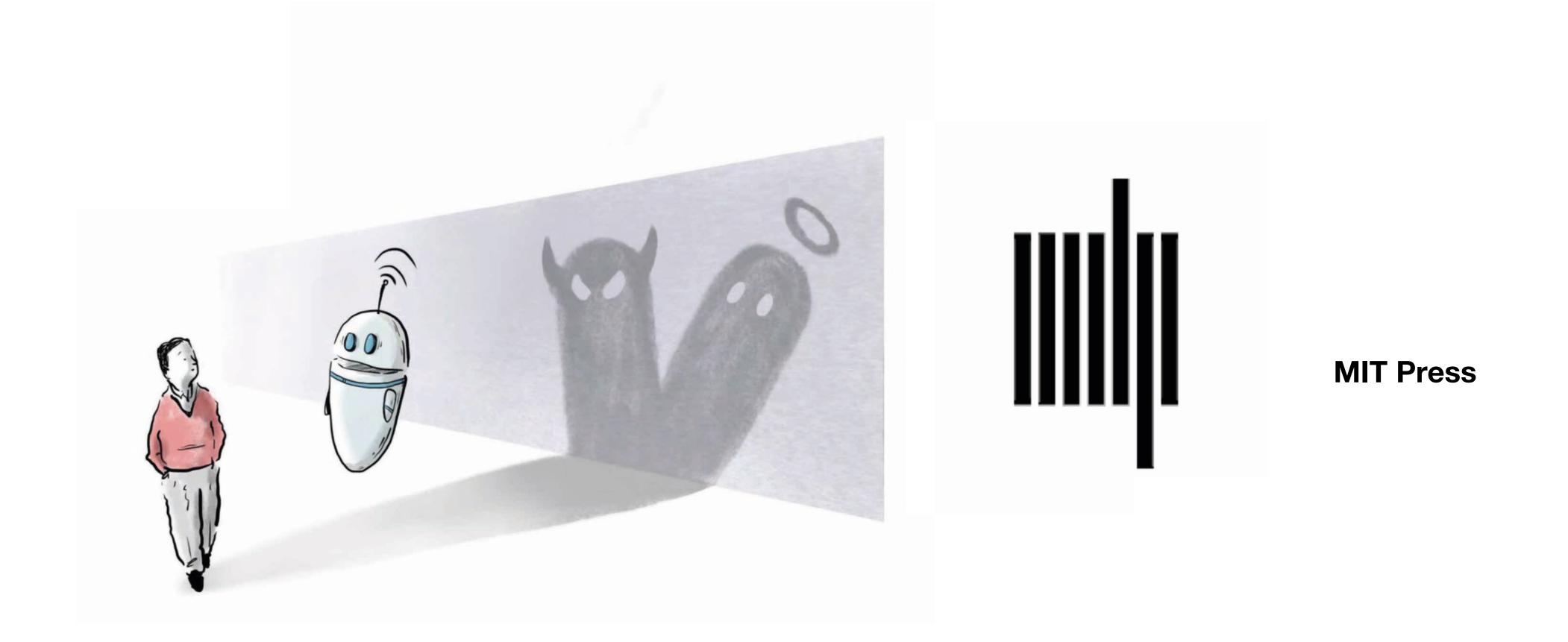


EPISODE 29: HOW HUMANS JUDGE MACHINES: RESPONSIBILITY FOR MACHINE ACTIONS



EPISODE 30: HOW HUMANS JUDGE MACHINES: INTENTIONS AND OUTCOMES

HOW HUMANS JUDGE MACHINES



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