Beneficial AGI: Care and Collaboration Are All You Need

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Love and Care

- Study of essential characteristics of four kinds of **love** (romantic, parental, companionate, and altruistic) finds a common element [2]:
 - "Investment in the well-being of the other for his or her own sake."
- Care can be defined in terms of the tendency to exert energy toward preferred states; a concern for stress relief [3].
- An AGI that loves and cares for humans will exert energy toward the humans' preferred states.
- Stuart Russell [5]: instead of trying to perfect utility functions or goal formulations, human-centric Als should aim to: "maximize the realization of human preferences".
 - The Als must learn how to determine human preferences and to engage in feedback loops with humans to remain aligned.
- What about AGI Bodhisattvas who vow to care for the wellbeing of all sentient beings?
- Claim: a loving, caring superintelligent AGI will almost certainly keep us safe.



How to Care for Humans?

- If an AI is trying to care for a Human, how does the AI know the human is approaching eir preferred states?
- 1. Collaborate: ask the human.
- 2. Look for signs of stress relief or satisfaction. :)
- The same as we humans need to do when helping others:
 - o Inverse reinforcement learning, learning when people are being honest, when their requests are unclear, to distinguish proxy goals from actual goals, etc.
- Sometimes, especially with kids, parents or teachers may know more about a kid's (likely) long-term preferred states than the kid does [6]!
 - o Tutelary care is also a learning problem.
 - o Ideally the recipients will trust the tutors to know about their best interests.
 - Ideally the care will be emancipatory and empowering.
- To care for unknown entities, an AI must learn how to scientifically gauge their degree of sentience as well as their needs and preferences.

What About Uncaring AGIs?

- David Brin: make them care about us [8].
- How? Employ reciprocal accountability.
- 1. Provide AGI systems with hardware identities to foster individuation.
- 2. Incentivize AGIs to keep each other in check via systems of rewards and punishments.
- 3. Require IDs for some business domains.
- This extends the approach used to keep humans in check. (Humans are generally intelligent, autonomous entities, some of whom do not always exhibit care for other humans).
- Corollary: a world with multiple advanced AGIs is likely to be more robustly safe.

Decentralized AGI Alignment Hypothesis

- Diverse, locally trained and deployed AGI systems may be able to better adapt to the needs and preferences of individual people and communities more effectively than large-scale centralized AGI systems, entering into positive-sum, empathic relationships.
- For example, the effects of algorithmic bias may be more contained, and could even be pointed out by other AI systems (in line with reciprocal accountability).

Collaboration as a Necessary Indicator of Care

- Goal g is individually determinable for an agent A if g's success can be determined solely by reference to A's experiences (internal states and perceptual inputs).
- Goal g is collaboratively determinable if g's success requires the consensual evaluation of multiple agents. Control over the goal is shared.
- In order for an AI to effectively care for humans, ey must do so collaboratively.
- Thus collaboration can function as an indicator of care to help identify perverse misunderstandings.

Example:

- "Enjoy a good meal with friends."
- 2. "Enjoy a good meal with friends who also enjoy the meal,"

Which goal requires collaborative inquiry?



Example: "Make people happy."

- 1. Via secret drugs and brain alterations while they sleep!
- 2. Via engaging humans in dialogs about their preferences, observational studies, and asking them for progress updates.

Do Individually Determinable Goals Lead to the Dark Factor?

- Dark Factor: "the general tendency to maximize one's individual utility disregarding, accepting, or malevolently provoking disutility for others -, accompanied by beliefs that serve as justifications" [7].
- o Positively correlated with egoism, Machiavellianism, moral disengagement, narcissism, psychological entitlement, psychopathy, sadism, self-centeredness, and spitefulness.
- By definition an entity with only individually determinable goals can ignore the disutility of other entities where not instrumentally useful

What about mainstream "AI Safety?"

Narrow AI:

- Safe use of Al.
- Protection against harmful use of Al.

General AI:

- Seeks to (provably) control arbitrarily intelligent AGIs.
- Seeks guarantees that all developed AGIs will never cause massive harm.

- Ensuring ethical complaince is undecidable [1].
- Strong guarantees may not be attainable.

<u>Claim</u>: most (superintelligent) AGI fears (implicitly) assume either insufficient intelligence or insufficient care (for humans).

E.g.,

- AGIs will treat humans as humans abuse other animals. [low care]
- AGIs will misunderstand what we want to disastrous effect. [low IQ] AGIs will be in competition for scarce resources with humans
- (instead of building a Dyson Swarm...). [low IQ and care]
- "If we can't control AGIs, then we're doomed". [low care]



Concluding Paradigm Shift

- Caring AGIs are both necessary and sufficient for safe, broadly beneficial outcomes.
- Collaboration is:
- an indicator of effective(ly implemented) care.
- a means to incentivize care.

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Read the position paper at the AGI conference website!

