Dear Editor:


The authors pose a “social dilemma” for autonomous vehicles (AVs) with scenarios they describe as “unlikely” while relying on surveys (static self-reports) to make predictions about human preferences to these AV decisions. But we have known for decades that preferences self-reported by humans often mis-align with human behavior ([4];[9];[6]). For example, reported in Science News [3], 90% of female partners self-reported compliance with a drug regimen to prevent transmission from their HIV mates, indicating drug failure. But before rejecting the drug, blood samples collected at the same time as the self-reports were compared to discover that compliance by the females was only 30%, giving new life to the drug. "There was a profound discordance between what they told us … and what we measured," infectious disease specialist Jeanne Marrazzo said.

As two other examples, Nate Silver, the renowned political forecaster [2], declared a crises with polling last year after failing to predict the outcome of five national and international contests. Tetlock and Gardner [8] claimed that "forecasting ... is a skill that can be cultivated.” Their webpage titled “Good Judgment” displayed the first question for their hand-picked superforecasters: “Will a majority of voters in Britain's upcoming referendum elect to remain in the European Union?” Despite giving only a 23% chance that the British would leave the EU [5], these superforecasters failed to predict Brexit in 2016.

At our AAAI symposium at Stanford in March [7], we constrained self-reported surveys with dynamic interdependence to tackle these more likely ethical scenarios: When four AVs approach an intersection with one AV “aware” its human driver is impaired, should the AVs coordinate with each other to protect their human occupants? Should we as a society allow a robot pilot of a team to take control when the robot becomes “aware” of an impending suicide by the airliner’s human copilot? Should a robot take command of a USS submarine prepared for rapid ascent to prevent the submarine from hitting a Japanese tour boat?

Respectfully,

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References:

