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# The Robots Dilemma Revisited The Frame Problem In Artificial Intelligence

**the robot's dilemma - realtechsupport** - winfield put the robots through dozens of test runs, and found that the a-robot saved its charge each time. but then, to see what the allow-no-harm rule could accomplish in the face of a moral dilemma, he presented the a-robot with two h-robots wandering into danger simultaneously. now how would it behave? **the eureka dilemma - robots - ferrisrobotics** - the eureka dilemma it is june 2018 and summer in the colorado rocky mountains. this past winter, the colorado rocky mountains got a lot of snow. in the summer temperatures, that snow is melting and starting to cause problems. the town of eureka, colorado is a small mountain town located 7 miles northeast of silverton, colorado. **robot wars: legal and ethical dilemmas of using unmanned ...** - questions in the laws of land warfare as robots become increasingly more advanced. currently, the united states alone has over 6,000 deployed unmanned robotic systems in iraq and afghanistan that are supporting united states troop missions during operations iraqi freedom and enduring freedom (sharkey 2007, 1). unmanned aerial systems, such **robots and ai - thethousand** - ai, robots and humans: an ethical dilemma. recent developments in ai have led me to think up the following dilemma. if an ai device passes the turing test and is therefore indistinguishable from a human, does that mean it has the same rights as a human? does it have the right not to be switched off, terminated or "killed off" as a human would? **an explorative comparison of blame attributions to ...** - mans and humanoid robots more for taking the action of redirecting the train compared to the inaction condition. in contrast to trolley dilemma studies, we use everyday dilemmas as stimuli, along with the trolley dilemma by malle and colleagues as a baseline. our participants also have a conversation **sacrifice one for the good of many? people apply different ...** - sacrifice one for the good of many? people apply ... robots, it is important to understand how ordinary people apply moral norms to robot agents and make moral judgments about their behavior. we report the first comparison of people's moral ... moral dilemma. we begin with a brief review of key research in **agent-based vs. robotic simulation: a repeated prisoner's ...** - dilemma. the real-world model consists of two robots (agents) that meet each other repeatedly facing the decision to either cooperate or defect. the environment has been structured in such a way that their choices entail consequences in terms of distance to travel. the same **human-robot trust and cooperation through a game theoretic ...** - human-robot trust and cooperation through a game theoretic framework erin paeng, jane wu, and james c. boerkoel jr. ... a variant of prisoner's dilemma, to measure trust and cooperation as separate phenomenon between human and ... human-robot trust and cooperation through a game theoretic framework author: erin paeng, jane wu, james c ... **autonomous robots in law enforcement: future legal and ...** - robots will likely be put to use by police and other law enforcement personnel—from reconnaissance to explosive ordnance disposal (eod)—and examine the legal and ethical controversies that they may bring with them. **m. ryan calo, "robots and privacy," in robot ethics: the ...** - the potential use of robots to vastly increase our capacity for surveillance presents a variety of specific ethical and legal challenges. the ethical dilemma in many ways echoes joseph weizenbaum's discussion of voice recognition technology in his seminal critique of artificial intelligence, computers, power, and human reason. **ethical trust in the context of robot assisted surgery** - ethical trust in the context of robot assisted surgery john p. sullins department of philosophy, sonoma state university, california 94928, usahnlins@sonoma abstractbot surgery began as a general practice in the united states since 2000 when the robotic da vinci surgical **the dilemma of consciousness in robots a comparative study ...** - the dilemma of consciousness in robots a comparative study of different definitions and their relationships arezo nasehi it and business department university of borås, sweden nasehiezo@gmail salman shahriyari it and business department university of borås, sweden salmanahriyari@gmail (alphabetical order) **drone-ethics briefing what a leading robot expert told the ...** - relatedly--and i'm not advocating any of these scenarios, just speculating on possible uses--robots can solve the dilemma of using physicians in interrogations and torture. these activities conflict with their. drone-ethics briefing: what a leading robot expert told the cia - technology - the atlantic 12/21/11 12:28 pm ... **robot ethics: mapping the issues for a mechanized world** - robots are often tasked to perform the "three ds", that is, jobs that are dull, dirty, or dangerous. for instance, automato bile factory robots execute the same, repetitive assemblies over and over, with precision and without complaint; military surveillance uavs patrol the skies for far more hours than a human pilot can endure at a time. **human-like morality and ethics for robots** - human-like morality and ethics for robots benjamin kuipers computer science and engineering university of michigan ann arbor, michigan 48109 kuipers@umich abstract humans need morality and ethics to get along constructively as members of the same society. as we face the prospect of robots taking a larger role in society, we need to consider how **robot be good - franz** - robots that interact with humans will often have to make decisions that have ethical ramifications. programmers cannot predict every possible ethical dilemma a machine might face, but they can provide an overarching principle (below) able to guide case-by-case decision making (right). the authors have demonstrated this approach by **robots and privacy - carnegie mellon school of computer ...** - robots raise privacy concerns. practically

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by definition, robots are equipped with the ability to sense, process, and record the world around them [denning et al. 2008; singer 2009, 67].ii robots can go places humans cannot go, see things humans cannot see. robots **ethics for autonomous robots - pt-ai** - ethics for autonomous robots towards an ethical robot alan f. t. winfield<sup>1</sup>, christian blum<sup>2</sup> and wenguo liu<sup>1</sup> bristol robotics laboratory, ... with a balanced ethical dilemma) • ok, remember the first decision and stick to it – this is just as bad: from indecision to uni-decision . **service robotics case studies - silicon valley robotics** - service robotics case studies in silicon valley interviews with ceos of robotics companies in emerging industries, with analysis of ... robots into research labs then students are already familiar with our robots. so that's not so much a sales channel as a recruitment channel. **the issue of moral consideration in robot ethics** - one of the first to include robots in the moral sphere was asimov, who issued his famous laws of robotics, which he used in science fiction novels to illustrate ethical dilemma situations in human **ethical artificial intelligence - an open question** - ethical artificial intelligence - an open question – pavaloiu, a., & kose, u. extend upon all the unpredictable actions that may occur from an autonomous form of thinking. russell and norvig (2010) pioneer the concept of robots needing to share the same values of **the problem with solutions to the frame problem** - in k. ford & z. pylyshyn (eds): the robot's dilemma revisited: the frame problem in ai, ablex, norwood, 1996 2 (presumably the colleagues and spiritual brethren of ai logicians), whose problems are often so much older. fermat's last theorem (that is, the problem of whether it is or **which robot am i thinking about? - tufts university** - judgments: that people blame robots more for inaction than action in a moral dilemma but blame humans more for action than inaction in the identical dilemma (where inaction allows four persons to die and action sacrifices one to save the four). importantly, we found that people's representation of the **what is the value of a robot life? - phys** - robots are also used to assist in domestic affairs ... presented with a moral dilemma and the question of whether they would sacrifice an individual to save a group of wounded people. in the different **ethics, robotics and medicine development** - implication, not only of using the robots in medicine, but, in the same time, of developing the intelligence robots. in respect to this, we will try to pay attention to the ethical dilemma and, of course to correlate the technical problems with patients' needs and rights, with health care services and hospital facilities. **can humans be replaced by autonomous robots? ethical ...** - being replaced by robots. the question of whether humans can be replaced in specific contexts of action is formulated very generally and was a central issue in an interdisciplinary technology assessment [1]. the first issue to be addressed is technical replaceability. **"think and do the right thing" - a plea for morally ...** - "think and do the right thing" – a plea for morally competent autonomous robots matthias scheutz human-robot interaction laboratory department of computer science tufts university medford, ma 02155 email: matthiascheutz@tufts bertram f. malle cognitive, linguistic, and psychological sciences brown university providence, ri 02912 **toward morality and ethics for robots - university of michigan** - toward morality and ethics for robots benjamin kuipers computer science and engineering university of michigan ann arbor, michigan 48109 kuipers@umich abstract humans need morality and ethics to get along constructively as members of the same society. as we face the prospect of robots taking a larger role in society, we need to consider how **a code of ethics for robotics engineers worcester ...** - this project aimed to create a code of ethics for robotics engineers in a format similar to that of the acm and ieee, while addressing the aspects unique to robotics engineering. this code needed to take into account the fact that the robotics industry is rapidly growing in many different directions. **ethical principles for socially assistive robotics** - assistive robots, is the potential of physical harm. while this is an important risk to examine, sar is primarily concerned with robots that provide assistance through social, rather than physical interaction. in this paper, we outline commonly accepted core principles from medical ethics and use those principles as guidelines for evaluating the **ethics for bots - hp labs** - ethics for bots miranda mowbray, hewlett packard laboratories bristol in proc. inter-symp '02, 14th international conference on system research, informatics and cybernetics, baden-baden, july 29-aug 3, 2002 abstract the rise of online communities has led to a phenomenon of real-time, multiperson interaction via online personas. **introduction: drones, droids, & dilemmas w** - creatively explored in the novel the robots of dawn and other works. 2 asimov's future world is one where robots can peace - fully co-exist with humans and most often it is the humans that form the destructive forces in society. the robots are autono - mous agents, constrained by their programing, which function well in future societies. **'doctor' robot could help solve sports-concussion dilemma ...** - 'doctor' robot could help solve sports-concussion dilemma in rural america 4 april 2017 a remote-controlled robot equipped with tools to diagnose concussion sits on the sideline of a northern **2016 sidley austin distinguished lecture on big data law ...** - third, because robots are cloud robots, we shouldn't forget that one of the central issues in the study of robotics and artificial intelligence is the handling of data and, in particular, big data. robots are nothing without data; and because many robots will be cloud robots, and many ai systems will be **melvin's a.i. dilemma: should robots work on sundays? ivan ...** - melvin's a.i. dilemma: should robots work on sundays? ivan spajić / josipa grigić, zagreb, croatia this paper addresses the issue of robotic religiosity by focusing on a particular privilege granted on basis of religiosity: work-free sundays. the paper is divided into **isp / ispi reading group: artificial intelligence ...** - isp / ispi reading group: artificial intelligence, robotics and law syllabus - introduction this informal, international, discussion-oriented reading group will explore the impact of artificial

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intelligence and robotics on law and society, through the lens of three main topics - ethics, regulation, and liability. **how can robots be trustworthy? - university of oxford** - how can robots be trustworthy? benjamin kuipers computer science & engineering university of michigan the robot problem • robots (and other ais) will be increasingly acting as members of our society. - self-driving cars and trucks on our roads and highways. - companions and helpers for the elderly. - teachers and care-takers for children. **the consequences for human beings of creating ethical robots** - the consequences for human beings of creating ethical robots susan leigh anderson and michael anderson university of connecticut, university of hartford department of philosophy, one university place, stamford, ct department of computer science, 200 bloomfield avenue, west hartford, ct 06117 susanderson@uconn, anderson@hartford **vulnerable bodies in human-robot interactions: embodiment ...** - automatic feeding robots, bathtub robots and robots that can pick up and carry humans from a bed to a wheelchair. this paper begins by outlining why the mind-body dichotomy is relevant to eldercare. we are interested in references made to "bodies" in the context of aging, since it is a complex multifaceted concept that defies simple ... **may machines take lives to save lives? human perceptions ...** - investigating people's perceptions of humans and robots in lethal dilemma situations in malle et al. (2015, forthcoming), we designed a new version of the trolley dilemma that allowed for a direct comparison between people's perceptions of human and robot actions in **basic movie premise - university of minnesota duluth** - basic movie premise the movie wall e is a pixar production from 2008 and portrays an earth that has been devastated by the overconsumption of humans. the movie opens with the view of a single machine named wall e working to complete his programmed directive, which in his case is to compress waste left behind by humans into a small **effects of programmed initial strategies in a prisoner's ...** - effects of programmed initial strategies in a prisoner's dilemma gamet stuart oskamp, claremont graduate school, claremont, calif. 91711 five treatment conditions were compared in a typical prisoner's dilemma experimental situation. four conditions involved different programmed strategies for the first 15 trials followed by 60 trials **risk and control considerations within robotic process ...** - dilemma across the financial services industry. it is imperative for organizations to address the risks presented and consider the potential implications introduced relative to the vision, reputation and success of an organization (e.g., inaccurate financial reporting, ... of "robots." the business units that comprise the first line ... **proxy prudence - rethinking models of responsibility for ...** - robots!and!users!rowing!concepts!from!the!philosophy!of!technology,bioethics! and!law,iargue!that!uncertain!use!contexts!we!can!reasonably!describe!a!robot!as! acting!as! a!moral!proxy!on! behalf! of! some! person.! **french and us army's dilemma between athena and are: keep ...** - french and us army's dilemma between athena and are: keep a sense of humanity in a technological warfare? ... in fact, these armies look for fielding ground unmanned assets and lethal autonomous robots in a distant future. thus, this thesis tries to analyze the possible trends of the french and us armies' current perception of their **comparing behavior towards humans and virtual humans in a ...** - comparing behavior towards humans and virtual humans in a social dilemma rens hoegen(b), giota stratou, gale m. lucas, and jonathan gratch institute for creative technologies, university of southern california, **service robots, care ethics, and design - springer** - service robots, care ethics, and design a. van wynsberghe1 published online: 22 august 2016 the author(s) 2016. this article is published with open access at springerlink abstract it should not be a surprise in the near future to encounter either a personal or a professional service robot in our homes and/or our work places: according to the **robots, change, and the - taylor & francis online** - robots, change, and the science fiction film by.j.potie I looking back to the seventeenth century and the rise of modern science, francis barker de scribes how science helped craft a regime of cultural control. he uses the imagery of anatomy and dissection to show how western culture developed a policy of self-mastery, the goal of which was to ... **humans feel empathy for robots: fmri scans show similar ...** - have been presented with the fictional dilemma of how we empathize with robots. robots now infiltrate our lives, toys like furbies or robot vacuum cleaners bring us closer, but how do we **robots can be more than black and white: examining racial ...** - robots, it has been shown that people more frequently dehumanise robots racialized as asian and black, than they do robots racialized as white (strait et al. 2018). the shooter bias paradigm was first introduced in a 2002 paper titled 'the police officer's dilemma: using ethnicity to disambiguate potentially threatening individuals'.

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