My Beautiful Paper About Stuff

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1 Introduction

The historical model for determining the responsibility of a company or an individual that develops an AI system isn't valid when looking at autonomous systems. A new perspective is needed to effectively discern the full extent of human responsibility when a system is said to be able to "act on its own".

The main goal of this article is to underline the presence of a responsibility gap (Matthias 2004) when analyzing all kinds of autonomous systems (in particular those capable of "learning"), and to provide possible approaches and solutions in order to tackle the problems that may arise from applying classical frameworks of responsibility in current and future contexts that employ AI technology. The issue at the core of this paper has already been studied by many (Matthias 2004; Sio and Mecacci 2021; Coeckelbergh 2020; Novelli, Taddeo, and Floridi forthcoming), offering different points of view and valuable insight, however, to this day there are still a lot of questions that remain unanswered. This paper is not aiming to give definitive answers to the issue at hand, instead it will just focus on the presented thesis by providing argumentative evidence and relevant case-studies with a particular focus on LAWS (Lethal Autonomous Weapon Systems); to do so, in section 2 it will start by giving semi-formal definitions of responsibility (including some peculiar variations) and its applicability on non-autonomous systems following the classical framework, while section 3 is devoted to presenting, assessing and analyzing the opposite situation, highlighting the flaws of the previous approach; section 4 will focus on the possible long and short term consequences of erroneous handling of the presented issues, while section 5 will offer some plausible solutions to mitigate and possibly prevent those consequences; to conclude, section 6 is dedicated to the acknowledgement of eventual points of objection and section 7 will wrap up the paper.

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2 Analyzing Responsibility

The term responsibility is often used as a broad expression to convey the notion of "someone" (which can be a person, an institution, a corporation or more generally, an agent) having the duty of upholding certain expectations defined by another (or the very same) agent towards a given goal; however, it's important to acknowledge the presence of derived terms that represent different "flavors" of responsibility, in this section we focus on the specific expressions that are most relevant to this paper, nevertheless, it's important to note that numerous taxonomies can be formulated.

In the Assessment List for Trustworthy Artificial Intelligence (ALTAI) for self-assessment, accountability is defined as a term which refers

too many 'of's to the idea that one is responsible for their actions and consequences, therefore they must be able to explain their aims, motivations, and reasons (Commission, Directorate-General for Communications Networks, and Technology 2020 as cited in Novelli, Taddeo, and Floridi forthcoming); of particular importance is the presence of an autorithy in charge of supervising the conduct of the agent held accountable and thus, sitting closely to the definition of answerability (Nissenbaum 1996) in contrast with the notion of moral responsibility, which assumes an internal analysis against the very own moral values of the agent of interest. An important distinction that needs to be made is the difference between active responsibility and passive responsibility (Poel, van de and Royakkers 2011): while the first term is appropriate for addressing the continuous and preemptive effort that one must make to care about a certain goal while it is being attained, the second is applicable in the event that something undesirable has already happened instead and can be subdivided in accountability, blameworthiness (indirect responsibility) and *liability* (economical/legal responsibility) according to (Poel, van de and Royakkers 2011).

Add Feinberg's responsibility model and why it doesn't apply

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