**Managing risks, passing over harms? A commentary on the proposed EU AI Regulation in the context of criminal justice**

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**Abstract**

Artificial Intelligence (AI) systems for both crime prevention and control have been in use for several decades although they have in recent years become the subject of growing criminological attention. Despite its transformative potential for societies, AI in general has long existed in a normative void and has been subject to limited regulation and control. The recent draft of the EU AI Regulation can thus be welcomed as the first comprehensive effort to regulate AI in an attempt to set regional, and potentially global, standards. The approach adopted in the Regulation, however, does not seem to adequately address some of the major concerns surrounding AI when it comes, for instance, to its use in criminal justice arenas. This short intervention discusses how a different approach, focusing on the social harms at stake rather than technological risks, could be useful for overcoming some of the limitations of current regulatory attempts.

**Keywords**

Artificial Intelligence; European Union; AI Regulation; Technological risks; Social harms

**Mind the gap**

Artificial Intelligence (AI) is broadly defined as technologies at the basis of systems that display intelligent behaviour by analysing their environment and taking actions (with some degree of autonomy) to achieve specific goals (European Commission, 2018). Such technologies are now increasingly deployed across Western and non-Western societies with socially transformative effects (Esposito, 2013; Gruetzemacher and Whittlestone, 2019). Nowadays, AI is broadly used to make certain services to the public or some production processes more efficient (among many, consider for instance Cioffi et al, 2020; Meyer et al, 2020). It is also deployed in more sensitive sectors such as criminal justice settings. For instance, AI is used by judicial and police systems to ‘predict’ – among other things – risk of recidivism, crime risk locations, or to implement biometric identification (for a recent overview, see Brownsword and Harel, 2019; Ugwudike, 2020; 2022; Lavorgna and Ugwudike, 2021; Suffia et al., 2022). As such, it is somewhat surprising to think that, at the moment of writing, AI is still mostly reliant on self-regulation and subject to few legal regulations.

The current legislative gap seems destined to end after the European Commission published in April 2021 a proposal for a Regulation on the subject, focused on managing and controlling the risks associated with AI systems (from here on, AIS) (European Commission, 2021a) – hereafter ‘the EU AI Regulation’. Indeed, the proposal does not regulate AI as such. Instead, it regulates the entry into the market and the use of technological systems that rely on AI, in an attempt to maintain as much neutrality towards the technology under discussion, and not to risk to over rely on an obsolescent definition of AI. The Commission has explicitly recognised that, because of the increasing use of AIS at the global level, a legislative intervention from the EU as part of shaping Europe’s digital future would ensure ethical use of new technologies. It will also allow the region to be consolidated as a centre of world importance in the sector. This is seen as a precondition for the prosperity and competitiveness of the EU (European Commission, 2021b,c; Smuha, 2021).

In this short contribution, we argue that such a proposal should be welcomed as the first comprehensive effort to regulate AIS via a legal framework while trying to establish potentially global standards. But the EU’s approach – which is mostly grounded on the concept of technological risks – fails to adequately address some of the major concerns surrounding AIS, particularly in sensitive settings such as criminal justice. We suggest that a different or at least a complementary approach focusing on social harms might be useful to overcome some of the limitations of the current regulatory attempt. As such, we also advocate for the relevance of criminological imagination, and specifically for social harm approaches, in the multidisciplinary debates on AIS and datafication, as they can be of great utility in highlighting unintended consequences and vulnerabilities.

**A brief overview of the proposed EU AI Regulation and its risk-based approach**

If approved, the EU AI Regulation would be applicable to a wide range of AIS, offering common rules and a series of key principles that aspire to be proportionate and flexible. The challenge, unsurprisingly, is to balance the need to mitigate the risks, and in particular those inherent the inappropriate use of AIS, with the need to support innovation.

Risk is a concept that has long received attention by several disciplinary perspectives (Lupton, 1999). From a sociological perspective, risk may be defined as ‘a systematic way of dealing with the hazards and insecurities induced and introduced by modernization itself’ (Beck, 1992: 21). Risks can be interpreted in a more objective way – as the relative likelihood of a certain event occurring – or in a more subjective or epistemic way – such as beliefs about the likelihood of a certain event occurring (Finckelstein, 2003: 973). Either way, discussions about risks are usually about forecasting future harms (including the social harms at the core of this special issue), in the attempt to avoid or mitigate them. But the relationship between risks and harms is more complex than this. In some cases, for instance, risks are nor a sufficient or necessary cause of harm (Livingstone, 2010). On the other hand, certain risks can be conceptualised as harmful since exposure to certain risks can undermine a legitimate interest (Finckelstein, 2003).

As already noted, the Regulation follows a *risk-based approach*, differentiating between uses of AIS depending on the severity of risk to the health and safety or fundamental rights of natural persons they create or might create. First, AIS that can create an *unacceptable risk* are generally forbidden. Among those, are systems using ‘real time’ remote biometric identification in publicly accessible spaces. However, the draft provides for several exceptions that seem to allow their use (art. 5(2-4) for instance for law enforcement purposes). These are based on case-by-case assessment parameters that take into account the nature of the situation, the consequences of using the specific AIS, and proportionality criteria. Second, some AIS are considered *high-risk* depending on their intended purpose, in line with existing product safety legislation. Such AIS are permitted on the European market subject to compliance with certain mandatory requirements and an *ex-ante* conformity assessment. Most AIS with a direct criminal justice application are likely to fall into this category. Third, some provisions target AIS because of the specific *risks of manipulation* they pose; as such, even if they are considered as bearing only limited risk, there are a number of transparency obligations for their use. Generally, when an individual interacts with an AIS recognising their emotions or characteristics, they must be informed. Further, if an AIS is used to generate/manipulate image, audio or video content resembling authentic content (as in the case of deepfakes), this needs to be disclosed.

In a recent article (Lavorgna and Suffia, 2021), a number of problematic issues in criminal justice matters pertaining to the draft Regulation were identified and are summarised in the following typology:

(1) *scope* issues. For instance, there are grey areas regarding what could be considered as AIS, and the very broad use of exceptions, especially in sensitive areas such as criminal justice matters, could undermine the safeguards in place;

(2) *implementation* issues. The draft seems to underestimate the role of private companies in criminal justice matters (see Byrne et al, 2019; Corda and Lagerson, 2020). But depending on how it is implemented, the Regulation could allow a wide range of facial recognition technologies designed by private sector companies to identify and isolate individuals in public contexts such as criminal justice settings;

(3) *spatial* issues. To be successful, the Regulation will have to be accepted as the rightful standard by a majority of global actors, which in part explains the ‘shyness’ of the approach; but it will also have to ‘fit’ with very different criminal justice systems within the EU, which could prove difficult. Additionally, the Regulation carries a problem of ‘maximum harmonisation’ and residual competences, which might have, potentially, a preemptive effect, creating a situation where Member States’ abilities to act in the area (e.g., regarding their capability to further restrict the use of AIS in policing matters) would be disabled (Veale and Zuiderveen Borgesius, 2021);

(4) *temporal* issues. After all, the proposal is only a proposal, and we might need a long time before it is becomes a Regulation. Also, the current draft envisages a 18-month period for its implementation. Hence, the regulatory gapat the moment remains;

(5) *intervention* issues. The sanctioning system envisaged by the current draft proposes only economic sanctions as a deterrent and punishing tool. Overall, this leaves considerable freedom for self-regulation.

On this latter point, we need to keep in mind that the legal accountability of commercial actors, and especially tech companies, is still very porous, although the issue is receiving increasing attention. There is now political pressure to better regulate the sector but there is still no coherent international legal framework on the subject, and the draft Regulation falls short on this aspect. Intervening to find new balances between the drive to maximise innovation and technology profits and society’s interests is probably one of the main (and trickiest) challenges today, but this does not mean it is one we can evade.

**Shifting the focus**

The risk-based approach summarised above has been generally welcomed, even by commentators that were otherwise critical on some aspects of the draft Regulation (see, for instance, Veale and Zuiderveen Borgesius, 2021). But we believe that it has some inherent deficiencies. For instance, the focus on risk adopted puts the spotlight on developers and deployers as ‘risk managers’. As mentioned above, this facilitates self-regulation and might not be a sufficient deterrent. By meeting such limited regulatory requirements, developers and procurers can minimise the legal, commercial and even reputational risks of using AIS. This approach overlooks the third element of the equation – that is, users (in most cases, individuals) – leaving them as an afterthought although users, both as active or passive subjects, are the more vulnerable to digital and technological harms (e.g., Wood, 2021). Of course, the proposed Regulation is based on Article 114 of the Treaty on the Functioning of the European Union (TFEU), governing shared competence on the internal market with the aim to create a practical framework that is fit for Europe’s digital future (Dufor et al, 2021). A focus on users would require a different basis (for instance, Art. 83 TFEU). Nonetheless, this omission of users needs to be pointed out: after all, using Article 114 is a choice in itself.

In our digitised societal context, moral panics originate from a vast number of relatively unfamiliar (real or perceived) threats including crime, and risk-based approaches have become central to managing such threats (Beck, 1992; Simon, 2007; Ungar, 2001; Hier, 2003; Lavorgna, 2019). Harms, on the other hand, tend to remain elusive and unspecified, especially when it comes to digital and technological harms, whose quantification can be difficult to calculate because of the intrinsic dark figure of negative events, and because it can be daunting to isolate the digital or tech element from a complex real-life scenario.

But focusing on risk rather than on harm gives a false sense of control. Risk, after all, is about the probability and severity of a certain harm manifesting itself, with the added complication that it implies a sort of forecast of the future, in a context where technology evolves at a very fast pace. Why then not to put the harms – and those impacted by them – at the centre, or at least why not to give them more attention? After all, the merits of harm-based approached have been long debated in criminology (see, among many others, Pemberton, 2007; Dorling et al, 2008; Paoli and Greenfield, 2013), and even in more recent literature focusing specifically on the harms of data-driven AIS. Indeed, a fast-growing scholarship on such harms now exists and can as such expose how affected populations can be subject to excessively punitive penal intervention (e.g., for a review, see Lavorgna and Ugwudike, 2021).

**AI Regulation as an issue of justice, power and resistance – let’s mind the right gap**

This intervention does not seek to demonise the use of AIS. We recognise that they are underpinned by the laudable notion that, if well designed, they can perform certain tasks for which computing power is more suitable and effective than solely human activity. However, we should also keep in mind the idea that ‘can implies ought’ is invalid (Niiniluoto, 1990): the harms of AIS should form a crucial part of criminological and interdisciplinary scholarship, and should be addressed via a robust legal framework. This intervention reaffirms this and highlights the importance of expanding the social harm scholarship in criminology to accommodate theoretical and empirical analysis of the risk and harms increasingly associated with new and emerging AIS, as well as considerations of how best to develop remedial strategies.

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