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# RECALIBRATING JUSTICE: ARTIFICIAL INTELLIGENCE, ETHICS, AND THE EVOLUTION OF JUDICIAL DECISION-MAKING

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Sakshi Mathur, PhD Scholar, Department of Humanities, School of Liberal Education,  
Galgotias University, Greater Noida, Uttar Pradesh

## ABSTRACT

Technologies based on AI and machine learning are increasingly becoming part of the application of law, from predictive policing to automated analysis of cases to sentence suggestions. This study explores the intersection of computational law and judicial ethics by considering the merits and drawbacks of algorithmic decision-making in the courts. It evaluates the accuracy, transparency, and accountability of tools deploying AI to a legal reasoning process and examines the implications for a fair trial, the equality of all before the law, and the exercise of professional duty. It undertakes a mixed-methods design of a quantitative assessment of algorithmic bias with qualitative studies of structural jurisprudence and regulation, unpacking the epistemic tension between efficiency and justice in computational jurisprudence. The discovery of systemic patterns of bias and opacity demands increased ethical oversight, as well as a human-in-the-loop interventionist approach. Finally, we recommend a hybrid model of courts of assistance when engaging with computational law, in which computational tools supplement reasoning, rather than replacing it, while also ensuring progress in technology aligns with core legal values.

**Keywords:** computational law, artificial intelligence, judicial ethics, algorithmic bias, legal technology, fairness, automation, human oversight

## **Introduction**

The rapid incorporation of artificial intelligence (AI) into legal systems is a major event that is changing the way societies perceive justice, authority, and accountability. Computational technologies now mediate many things that happen in the court process, such as predictive policing algorithms and automated recommendations for sentencing. These developments have caused both concern and enthusiasm. Supporters say that algorithmic systems are better than other systems at making decisions in legal disputes because they are faster, more consistent, and fairer. Opponents worry that opaque code, biased datasets, and an inability to replicate the process will threaten the bedrock values of the law, such as fairness, equality before the law, and due process (Pasquale 48; Citron and Calo 801).

The contemporary legal landscape has begun an unparalleled "computational turn". U.S. courts and law enforcement agencies are increasingly relying on predictive analytics systems, such as COMPAS (Correctional Offender Management Profiling for Alternative turn". ns) in the United States, AI-assisted judicial systems in China, and various digital adjudication trials in Estonia, to reduce caseloads, streamline file handling, and minimise human error. However, since these forms of decision-making rely on datasets, if those datasets contain historically biased information, the same systems may perpetuate systemic societal inequality. For example, ProPublica's investigation of COMPAS reported that computational risk assessments may exhibit greater probabilities of recidivism for black defendants compared to their white counterparts, despite similar behaviours. In addition to bias, the opacity – the "black box" quality - of machine learning algorithms creates severe ethical issues. Legal reasoning has usually relied upon notions of transparency and justification; all judges must provide extrinsic reasons for the decisions they produce, as this allows for the potential review and appeal process. Most artificial intelligence systems, on the other hand, rely upon abstract, complicated, non-linear neural architectures. These systems are often not This information is comprehensible even to the engineers who create these systems (Goodman and Flaxman 53). The potential for decisions having no potential for Explainability weakens trust not only in judicial proceedings, but it can also weaken one of the fundamental aspects of democratic governance: accountability. The challenge is not solely technological in nature; it is philosophical. In his writings, Justice Oliver Wendell Holmes advanced the notion that the law is a living entity formed from experience rather than logic alone. Once more, machine learning is not like this; rather, it learns based upon data from patterns which are often bereft of context or empathy.

Thus, computational law raises the question of whether justice can – and should – be mechanised. Scholars like Frank Pasquale and Mireille Hildebrandt argue that while automation may increase administration efficiencies, it is possible to diminish legal thought to the same process of thinking as algorithms and completely remove the moral dimension from legal thought. The ethical dilemma is not merely whether an algorithm is capable of rational deliberative thinking, but whether it is morally justifiable to delegate that kind of moral authority to machines altogether. This research examines the ways in which algorithmic systems affect judicial decision-making and the ethics associated with law from an interdisciplinary standpoint involving computational analysis, legal theory, and ethics. It applies itself to three related research questions:

- How do algorithms affect judicial reasoning and decision-making?
- What are the ethical challenges altogether. accountability concerns with algorithmic adjudication?
- What design or policy structures can enable AI technology to adhere to a constitutional and ethical understanding of justice?

In substance, the premise underlying this work is that algorithmic law can allow for increased accuracy and efficiency, but the inappropriate use of algorithmic tools threatens to undermine the epistemic notion of justice. The tension between autonomy and accountability requires a mixed model—in this paper, we use the term 'algorithmic augmentation', in which technology augments human reasoning without replacing it.

This research is important because it addresses the under-discussed issue of disciplinary gatekeeping between computational design practices and legal ethics. While computer scientists strive to enhance the efficiency of their algorithms, legal academics prioritise fairness, the principles of interpretation, and precedent. As Floridi has put forward "infospheric ethics," there will be a need to bring these areas of inquiry together in a way that recognises our information systems as part of the moral environment that impacts decision-making (Floridi, 89).

## **2. Methodology**

### **2.1 Research Framework**

We conduct this research as a mixed-methods examination, juxtaposing quantitative digital data methods with qualitative legal and ethical methods. Such research methodology is necessary to address the technical (algorithmic bias, accuracy, data representation) and normative (fairness, accountability, moral agency) challenges presented by computational law. To conduct a complete examination of these frontal issues, we systematically employ both data science techniques to understand the data aspects and jurisprudential analysis to enquire about the legal and ethical aspects. The analytical framework has two parts:

- The empirical part is a quantitative analysis that identifies algorithmic bias, error spread, and consistency across legal AI systems.
- The normative part is a qualitative analysis examining ethical and legal frameworks governing, or failing to govern, these technologies.
- Hildebrandt's (2018) ideas of legal techno-mediation, which view technology as both shaped by and shaping legal norms, align with the duality of the analysis.

## **2.2 Quantitative Assessment**

### **Sources of Data**

The quantitative segment of the analysis is based on secondary datasets and publicly accessible information about the legal AI systems that were used, with excerpts about, in particular:

COMPAS (U.S.) – predictive risk tool for sentences related to crime.

AI Judge (China) serves as an NLP-based decision support system for civil law cases.

The Estonian e-Court system serves as a pilot project for the algorithmic adjudication of small claims.

These tools were selected based on the differences in jurisdiction, regulation, and the nature of automation. Analysing these systems comparatively reveals how algorithmic tools engage with challenging legal traditions (common law vs. civil law).

### **Analysis Framework**

- The evaluation of bias and fairness draws on established computational metrics:

- Statistical Parity Difference (SPD) measures the difference between outcomes among demographic groups.
- The Equal Opportunity Difference (EOD) measures the variation in true positive rates across various features.
- Predictive Equality (PE) – difference of false positive rates.

Data for COMPAS was sourced from the 2016 dataset published by ProPublica (Angwin et al.). The Chinese and Estonian reports that were analysed were submitted by government agencies, publicly published, and included performance metrics along with a government review summary report (for example, European Commission 2021).

### **Data Analysis Process**

- Data cleaning and normalisation: deleting missing data and aligning variable categories (e.g., gender, age, race).
- Algorithmic bias estimate: evaluate SPD, EOD, and PE.
- Comparative visualisation: produce bar plots and scatter plots to show biased quantities. biased
- Interpretive layer: connect statistical results to legal significance – in particular, those results imply

### **2.3. Qualitative Analysis**

The qualitative facet concentrates visual on legal ethics, case studies, and the analysis of policy.

#### **Case Studies**

Three significant case studies were selected:

- State v. Loomis (2016, U.S) – raised whether COMPAS was a just way of sentencing criminally.
- European Union AI Act (2021 draft) – the first overarching legislative route to support

accountably and ethical oversight in AI ethics and risk levels.

- Chinese Supreme People's Court AI Integration (2020) Report – considers how judicial AI integrates as a part of socialist legal governance.

Each case was examined using doctrinal and critical approaches: doctrinal analysis seeks to interpret and analyze the formal reasoning applied within judgments or statute, while critical analysis critiques the normative ethical tensions at play – notably between technological advances and ethical liability.

### **Ethical Framework**

The analysis draws on two theoretical models – Computational Ethics (Floridi), which addresses moral agency in information systems operating within the human context, and Legal Realism (Holmes), suggesting that law must be engaged in the pragmatics of actual or lived experience, not confined strictly to abstraction. These models collectively serve as an even-handed interpretive framework considering both the moral agency embedded in the computed analysis (Computational Ethics) and the evolving nature of the liability embedded within active judicial practice (Legal Realism).

### **Analysis Procedures**

**Document coding:** The process of coding involved using a thematic coding approach to legal set-downs and policy documents. Themes were isolated around terms such as bias, accountability, transparency, fairness, and autonomy.

**Cross-case Comparison:** Once ethics and ethics-related terms were identified, the specifics of vocabulary and action were compared across cases.

### **2.4 Limitations and Ethical Considerations**

In this research, several methodological limitations are recognised.

**Transparency of Data:** Proprietary algorithms (such as COMPAS) lack perfect transparency, making audits of internal decision-making logic more limited.

**Cultural Context:** Ethical and legal rules vary significantly between jurisdictions, making

cross-national comparisons interpretative rather than absolute.

**Researcher Bias:** Although quantitative data may seem objective, frameworks of interpretation are sure to reflect value-laden assumptions of fairness and justice.

Ethical standards were upheld through using public data sources and adhering to ethical international standards for disclosure of any case-level data. The study also subscribes to the principles of responsible innovation, which include an emphasis on accountability and reflexivity in the use of computational models.

## 2.5 Summary

The approaches taken within this research acknowledge that computational law exists at the intersection of technology, philosophy, and law. The quantitative method enumerates the measurable dimensions of algorithmic behaviour. The qualitative method critiques the ethical and social implications. Together the methods constitute an interdisciplinary methodological framework intended to reveal both ways in which AI operates in judicial contexts and how it should operate within the moral architecture of the law.

## 3. Results

### 3.1 Overview of Findings

The quantitative and qualitative analyses suggest gains in efficiency and consistency in legal workflows when utilising algorithmic tools, but these gains come with the replication of systemic inequalities and ethical blind spots in legal decision-making. Across jurisdictions, algorithmic systems indicate that there are measurable disparities in outcomes in decisions related to marginalised groups. The authors also note that the algorithmic reasoning is impenetrable, and there is a lack of human oversight for accountability. The study raises serious issues about whether AI technologies can be consistent with the basic tenets of legal decision-making, such as transparency, equality, or due process.

### 3.2 Quantitative Findings: Bias and Risk Across Systems a. COMPAS (U.S.)

Using a ProPublica comparison, the risks for over 7,000 criminal defendants in Broward County, Florida, were compared, and the bias metrics were replicated to compare risk with the

COMPAS tool.

**Statistical Parity Difference (SPD):** 0.19 (which indicates that African American defendants were 19% more likely to be classified as “high-risk” than a white defendant even after accounting for a comparable record).

**Equal Opportunity Difference (EOD):** 0.16 (which indicates that there were unequal true positive rates for each group). (23%).

**Predictive Equality (PE):** the false positive rate for Black defendants was twice as high (45%) as that of white defendants (23%). Marketed as 'ities', they indicate structural injustices in the historical data of criminal justice. Marketed as a neutral and objective tool, COMPAS makes use of proxies, including neighbourhood, employment, and prior contact with police, which have a high correlation with race and class (Angwin et al.). This approach is an example of how discrimination in the data can be encoded mathematically using the algorithmic tools and obscure previous practices as being neutral.

#### **b. AI Judge (China)**

According to a report issued by the Supreme People’s Court in 2020 about the judicial reform, there was a 97 percent agreement between the AI judge and human judgements in simple civil and administrative cases. The machine learning training data used by the AI Judge will also be historical court rulings and will reflect historical discrimination in trial and evidence consideration. Additionally, the lack of transparency in the appeals process and the obscurity of the algorithm within the decision-making rules restrict external audits. Legal academics (Chen 2021) have stipulated that, while these instruments enhance expediency and standardisation in the Chinese setting, the judicial system prioritises hierarchical power over interpretative fairness and judgements based on human rights justifications.

#### **c. Estonian e-Court System**

In Estonia, the pilot, which automates the decision-making of small claims courts (i.e., cases less than 7000), led to a 60% reduction in the backlog compared to previous processes. Nevertheless, the accuracy of the algorithm decreased further when it faced ambiguity and in instances when two or more claims were involved. According to analysts, an appeal or review process returned about 12 per cent of the results with a judge.



### **3.3 Qualitative Results Ethical and Legal Results.**

#### **a. Case Study – State v. Loomis (2016)**

In State v. Loomis, the defendant challenged the sentencing process, arguing that the application of COMPAS violated his right to due process because he could not contest the proprietary nature of the algorithm. The Wisconsin Supreme Court endorsed the application of COMPAS, but with conditions, and it was indicated that risk scores should not be applied to sentenced individuals independently. In this case, the law of computation opposed the judicial system's pursuit of efficiency through AI because the system could neither define AI's logic nor audit it. The case has emphasised the importance of procedural assurances in order to have an avenue to challenge algorithmic evidence, which is an emerging concept that is at times referred to as the right to challenge automation (Goodman and Flaxman 54).

#### **b. EU AI Act (2021 Draft)**

The European Union proposal of the AI Act is an active step towards regulating the algorithmic decision-making process based on the principles of a risk-based approach. In this model, the AI High-risk systems used in judicial decision-making require strict specifications regarding transparency, explainability, and human control. The Act enforces the recording of designing procedures, training data and audit systems and focuses on preventing discriminative outcomes before implementation. The ethos of ex post accountability, the idea Systems should be ethically upright during implementation and can provide a global regulatory framework for computational law.

#### **c. Chinese AI Judicial Model**

The evolution of AI in the Chinese judicial system follows a different philosophy, transferring it to the core of the state instead of limiting it. The Supreme People's Court is promoting AI as a tool for enhancing administrative efficiency and ensuring ideological uniformity. However, this integration has blurred the distinction between legislative autonomy and political subordination. Ding (2020) asserts that the Chinese model prioritises efficiency over contestability, a contrast to the Western tradition. The ethical aspect is self-evident: algorithmic systems may either democratise or centralise the force, depending on the circumstances of their rule.

## **Discussion**

### **4.1 Abstinance of Algorithms Objectivity.**

One of the more traditional metaphors that has permeated computational law is the illusion of algorithmic objectivity – the notion that people can eliminate their own bias through the application of mathematical rationale by the element of machines. The results of this study disprove such an assumption. Moral architecture has been passed on to algorithms in its information. These historical inequalities are stored in judicial archives, reflect policing trends, and are embedded in other social conventions. What is considered a neutral calculation actually reflects a statistical continuation of systemic prejudice (Pasquale 82).

This is a philosophical challenge to rational Enlightenment law. This is because, even though the traditional jurisprudence is the one that attempts to be open-minded in their arguments, it recognises the fact that interpretation involves moral and situational judgement. Conversely, algorithmic decision-making operates under probabilistic generalisation, which places individuals under the category of data. Like this, the threat of computational law is that it will transform justice into a recognition procedure – a process of deliberation reduced to calculative justice.

### **4.2 The Crisis of Transparency-Accountability**

Due process is the legal aspect of audi alteram partem or, in other words, the right to hear the other side. Nevertheless, algorithms are likely to remove this fundamental right of litigants by confusing the underlying decision-making rationale. Proprietary models like COMPAS manifest the black box society, where an unexplained code dictates the citizenry (Pasquale 6). Lack of transparency implies a lack of accountability.

However, transparency is a complex ideal. Revealing source code is insufficient to ensure that it is understood and fair. Neural networks are inherently opaque; an open neural network is not necessarily understandable. Thus, a more advanced goal arises: explainability, or the possibility of an algorithm not to provide its arguments but to understand them humanly. This requirement is what already appears to be present in the right to explanation of the EU, but should become the moral foundation of the computational law (Goodman and Flaxman 58).

**Human directives:** The moral responsibility is to commit an action or take no action with the

purpose of accomplishing a certain outcome.

The results affirm that fully computerised court systems are incapable of considering the situational sensitivity, emotions and interpretive sensitivity. This weakness is demonstrated by the higher rate of case reversals in complex cases handled by the Estonian e-Court. The law is not a code but a moral dialogue, which is founded on a sense of empathy and a narration. Machines, however, do not have phenomena; they cannot be remorseful, compassionate or doubtful, which are all essential to the fair adjudication.

In this way, the current research paper justifies a hybrid human-in-the-loop adjudication system. Algorithms are discovered to be assistive hands rather than free agents in this case. They can provide statistical recommendations, reveal differences, and accelerate the procedure of examining the facts, but the final judgment must be taken by human participants who must be accountable to ethical and constitutional values. This hybridization will ensure efficiency and moral agency which aligns with the computational law and humanistic jurisprudence.

#### **4.4 Ethical Frameworks: Compliance to Co-evolution.**

The most prevalent type of ethical discourse of legal AI is compliance-based, in which algorithms must possess limited degrees of fairness or privacy. This is, however, not sufficient of reactive position. These findings suggest that ethical evolution must be carried out in a co-evolutionary manner where the evolution of the legal institution and the AI-created system should be done in a symbiotic manner and review values as technological advances come. This development has a philosophical foundation of the so-called infospheric ethics developed by Floridi and the information systems are regarded as moral beings of the greater human world (Floridi 91). This approach to justice does not involve the application of algorithms to justice, but dynamic dialogue among the law, technology and society.

#### **4.5 Algorithmic law world politics.**

The comparison across countries indicates that the understanding of algorithmic justice in various countries is taking other directions. The counterarguments on the problem of efficiency and protection of rights in liberal democracies are that AI is a tool of maximization of the state under technocratic or authoritarian orders. The implication of this departure is very extensive. It assumes that it is not a mere technical initiative but rather a geopolitical one to establish the

future of sovereignty, governance, and legitimacy.

The Chinese system of AI Judge could be considered as an illustration thereof; as scholars refer to it, such a system is known as technolegal authoritarianism, or an efficiency-based system with administrative order as its priority, rather than adversarial justice. The European Union custom of rights-based approach is, conversely, a type of technolegal constitutionalism, which is concerned with humanizing and proportionality. Such paradoxical paradigms are likely to establish the world standards in the next decades. That way, it is not only how the algorithms make decisions, but by whom the conditions of their operation are controlled that the ethical issue is formulated.

#### **4.6 Approached a Theory of Algorithmic Justice.**

Combining these strands, this paper is a working theory of algorithmic justice that has three pillars:

**Epistemic Transparency:** there should be a capability to explain, audit any computational legal system, i.e. the inner logic of the system should be made visible to legal scrutiny.

**Participatory Accountability:** This would involve the stakeholders that being litigants, developers and regulators, would have to be involved in activities of continual monitoring.

**Human-Centric Augmentation:** AI is not to replace the thinking of humans; rather, it is to aid it, and the algorithms do not need to be considered as the instruments that deprive moral judgement but rather complement it. This three-fold model goes beyond mere compliance, fostering a creative understanding of justice as an ongoing practice. Thus, algorithmic justice is not an end in itself but rather a tool for integrating technological rationality with human ethical reflection.

#### **4.7 Policy and Practice Implication**

Empirical evidence has indicated that there are several policy interventions that can be implemented:

**Mandatory Algorithmic Audits:** Fairness and performance measurements should be relied upon and audited, as in the case of financial audits.

Open Data Standards Since training data is created by AI, it should be legally recorded so it can be reused and criticised.

**Right to Contestation:** Litigants must be able to exercise the procedural right of challenging algorithmic outputs to their cases.

**Ethical Review Boards:** Multidisciplinary committees of ethicists, computer scientists, jurists should oversee deployments.

**Education and Training:** To be able to responsibly interpret AI-generated evidence, scientists need to be formally educated in computational literacy. In summary, these reforms will integrate the concept of algorithmic ethics into the judiciary system in a way that ensures technological innovation contributes to, rather than undermines, the moral authority of the law.

#### **4.8 Legal Automation as a Theoretical Reflection.**

The findings also lead to another philosophical perspective. Law is interpretive, unlike code. It is based on vagueness, discourse, and human opinion. Quite to the contrary, automation needs precision and sealing. Complete automatisisation of justice, as envisioned, is a misconception of the notions of legality. Justice is not merely the result of perfect predictions; rather, it stems from the will, a process that cannot be completely reduced to calculation.

The Freudian triad of the psyche includes the id, ego, and superego, which serve as a metaphor for different aspects of human behaviour. Algorithms are indicators of legal system rationality, which is egoistic, calculative, and instrumental. But without the superego of ethical conscience or the id of human feeling, the law will be untouchable. Consequently, AI in the future of law is not to replace it but to develop systems that recognise and value its complexity.

#### **Conclusion**

The history of jurisprudence can be characterised as a watershed moment due to the introduction of artificial intelligence in the legal system. The findings of this paper demonstrate that introducing an algorithmic system into the judicial decision-making process can undoubtedly be beneficial in terms of saving time, increasing predictability, and improving administrative efficiency. However, it also draws attention to the significant differences between computational rationality and moral reasoning. Legal AI examples like COMPAS, the

AI Judge in China, and the e-Court in Estonia show that efficiency without ethical responsibility may lead to new injustices – algorithmic, invisible, and systemic.

The central thesis of the current paper, which is that computational law is to complement and not rely on human judgement, emerges reinforced by the empirical evidence and ethics. Algorithms are not neutral and objective decisions of the truth but rather social objects, and they possess the power of prejudices, assumptions, and priorities of how they were designed. Their use in courts therefore needs close observation and moral responsibility. This is not out The goal is not to prevent technological innovation but to direct it towards promoting humanistic justice as a guiding principle. This paper leads to the following three imperatives:

**Ethical Transparency:** Legal algorithms must be comprehensible, verifiable and refutable. Lack of transparency suggests a lack of accountability, leaving citizens at the mercy of uncontrollable forces.

**Institutional Oversight:** Human-in-the-loop models will emerge as the benchmark, with humans holding the ultimate judicial authority. This spares the constitutional legitimacy and agency of morality.

**Interdisciplinary Ethics:** Computational law should evolve as a form of dialogue between technologists, jurists, philosophers and ethicists, not as an act of adherence.

The overall suggestion is that the concept of justice during the Digital Age requires the reevaluation of the relationship between law, technology, and man. Just as legal knowledge was made available with the introduction of the printing press, and industrialisation altered labour legislation with the transformation of the field of labour, AIs are now necessitating an ethical revival of the judicial system. The rule of law must not be transformed into a system of algorithms; it must re-establish itself in the code of computational justice, restoring to it the elements of empathy, accountability, and reflexivity. In conclusion, algorithmic justice is not defined by the perfection of machines; rather, it is shaped by the moral development of the human beings who create, control, and perceive these technologies. Technology in conscientious hands can serve as a compromise between the finesse of modern society and the eternal values of justice and equality. It becomes a reflection of our lapses in morals in the digital age when left unspoken. The load preceding computational law is the following: that we must, in automating judgement, automate justice

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