



Examining the Landscape of Machine Intelligence Challenges for Lawyers

AI



- The theory and development of computer systems able to perform tasks normally requiring human intelligence, such as visual perception, speech recognition, decision-making, and translation between languages.
 - Using computers to solve problems or make automated decisions for tasks that, when done by humans typically require intelligence.

AI in 2019

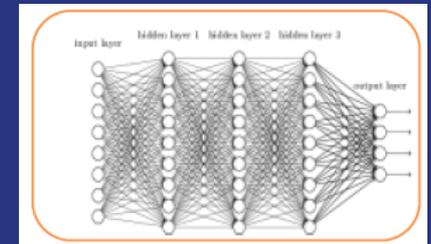
- “Strong” Artificial Intelligence



- Computers thinking at a level that meets or surpasses people
- Computers engaging in abstract reasoning & thinking
- This is not what we have today. There is no evidence that we are close to Strong AI

- “Weak” Pattern-Based Artificial Intelligence

- Computers solve problems by detecting useful patterns
- Pattern-based AI is an Extremely powerful tool
- Has been used to automate many processes today
- Driving, language translation etc.
- This is the dominant mode of AI today



AI in 2019: Techniques

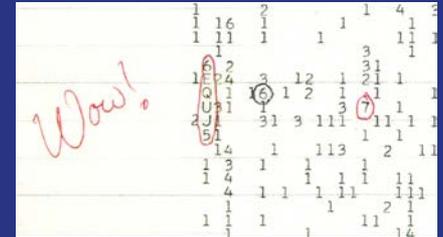
- Logic and Rules-Based Approach
 - Representing processes or systems using logical rules
 - Top-down rules are created for computer
 - Computers reason about those rules
 - Can be used to automate processes
- Examples
 - Compliance Systems
 - Expert Systems
 - Attorney Workflow Rule Systems
 - Automated Document Assembly

AI in 2019: Techniques



- Machine Learning
 - Algorithms find patterns in data and infer rules on their own
 - They Learn from data and improve over time
 - These patterns can be used for automation or prediction
- Examples
 - AI in Litigation - E-Discovery etc.
 - Natural Language Processing (NLP) of Legal Documents
 - Automated contract analysis
 - Predictive Analytics for Litigation

AI in 2019



- Very good on the “A” less good on the “I”.
 - (Apparently) Intelligent Results Without Intelligence.
 - Systems can provide results for some (not all) complex tasks requiring intelligence
 - BUT Intelligent Results produced without Intelligence
 - You can get “intelligent” automated results without intelligence by finding suitable proxies or patterns

Proxies for Intelligent Results Without Intelligence



¿Dónde está

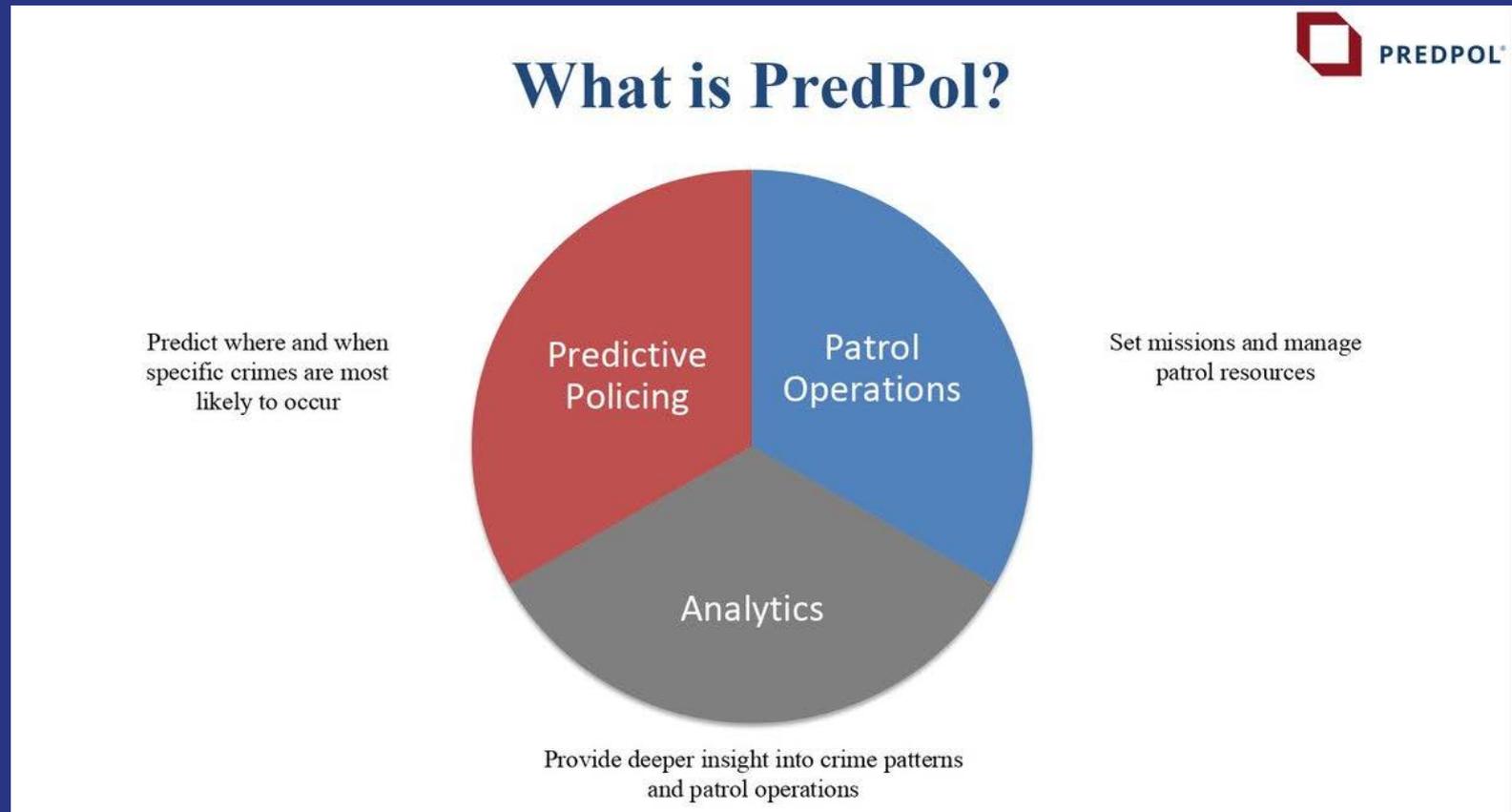
la oficina de correos?

- Advanced cognitive skills to used to translate
- Google finds statistical correlations by analyzing previously translated documents.
- Statistical Machine Translation produces automated translations using statistical likelihood as a “proxy” for underlying meaning

Problems: Contextual Error



Problems: Bias



Problems: Bias

Google translate gets this correct:

She is a babysitter He is a doctor 34/5000	O bir bebek bakıcısı O bir doktor
O bir bebek bakıcısı O bir doktor 33/5000	She's a babysitter He is a doctor

But displays gender bias in this one:

She is a doctor He is a babysitter 34/5000	O bir doktor O bir bebek bakıcısı
O bir doktor O bir bebek bakıcısı 33/5000	He is a doctor She's a babysitter

Problems: Not Intelligent

Your Lawyer will see you now...



Problems: Bias II (Humans)





Solution: Ethics?

- The High-Level Expert Group on Artificial Intelligence.
 - Ethics Guidelines for Trustworthy AI
 1. Human agency and oversight
 2. Technical robustness and safety
 3. Privacy and data governance
 4. Transparency
 5. Diversity, non-discrimination and fairness
 6. Societal and environmental wellbeing
 7. Accountability
- Problem - Ethics Washing (see Wagner)

Solution: Regulation?

- UK House of Lords AI Committee Report
 - (On Regulation) Witnesses fell into three broad camps:
 1. those who considered existing laws could do the job
 2. those who thought that action was needed immediately
 3. those who proposed a more cautious and staged approach to regulation.
 - Report favours Technological Neutrality
 - “The pace of change in technology means that overly prescriptive or specific legislation struggles to keep pace and can almost be out of date by time it is enacted” and that lessons from regulating previous technologies suggested that a “strict and detailed legal requirements approach is unhelpful” - **Kemp Little LLP**

Solution: Regulation?



- UK House of Lords AI Committee Report
 - Technological Neutrality
 - “I would not have any one-size-fits-all answer. It is inappropriate and impossible to attempt to produce a regulatory regime which applies to all AIs” - **Chris Reed**
 - Blanket AI-specific regulation, at this stage, would be inappropriate. We believe that existing sector-specific regulators are best placed to consider the impact on their sectors of any subsequent regulation which may be needed. The Government Office for AI, with the Centre for Data Ethics and Innovation, needs to identify the gaps, if any, where existing regulation may not be adequate. The Government Office for AI must also ensure that the existing regulators’ expertise is utilised in informing any potential regulation that may be required in the future.

Mebbes Aye Mebbes Naw!



Bad Men and Bad Ethics



Google DeepMind are an ethical company developing ethical products and the fact that the health data of 1.6 Million people was shared without a legal basis was the fault of the British government - **Google DeepMind ethics team member.**

In the technology policy world, where ethics, human rights and regulation are frequently played off against each other. In this context, the idea that ethical frameworks provide a way to go beyond existing legal frameworks is taken to mean that in some cases this may also mean ignoring them. - **Wagner**

The rise of the ethical technology debate runs in parallel to the increasing resistance to any regulation at all. - **Wagner**

Bad Men and Bad Ethics



Ethics - even in an applied sense - is distinct from the law and human rights. Yet in this context the primary ethical framework being proposed is based on (some) EU fundamental rights while explicitly ignoring others. At the same time EU fundamental rights are not understood as fundamental rights but rather as ethical imperatives to be complied with in a non-binding fashion. -

Wagner

“We must think of law as more than simply a ‘roadblock’ on the road to greater technological innovation” - David Grant and Lyria Bennet Moses

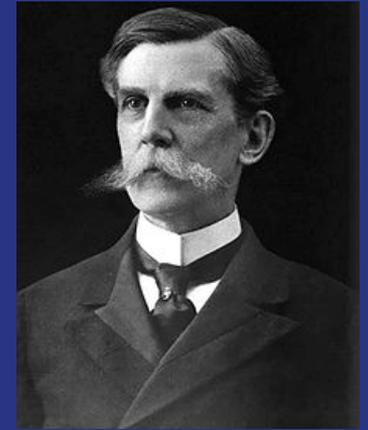
Those who do not learn from History...

No provider or user of an interactive computer service shall be treated as the publisher or speaker of any information provided by another information content provider. - s.230 CDA



Member States shall not impose a general obligation on providers to monitor the information which they transmit or store, nor a general obligation actively to seek facts or circumstances indicating illegal activity. - A.15 ECD

Bad Men and Bad Ethics



You can see very plainly that a bad man has as much reason as a good one for wishing to avoid an encounter with the public force, and therefore you can see the practical importance of the distinction between morality and law. A man who cares nothing for an ethical rule which is believed and practised by his neighbors is likely nevertheless to care a good deal to avoid being made to pay money, and will want to keep out of jail if he can - **Oliver Wendell Holmes, Jr.**

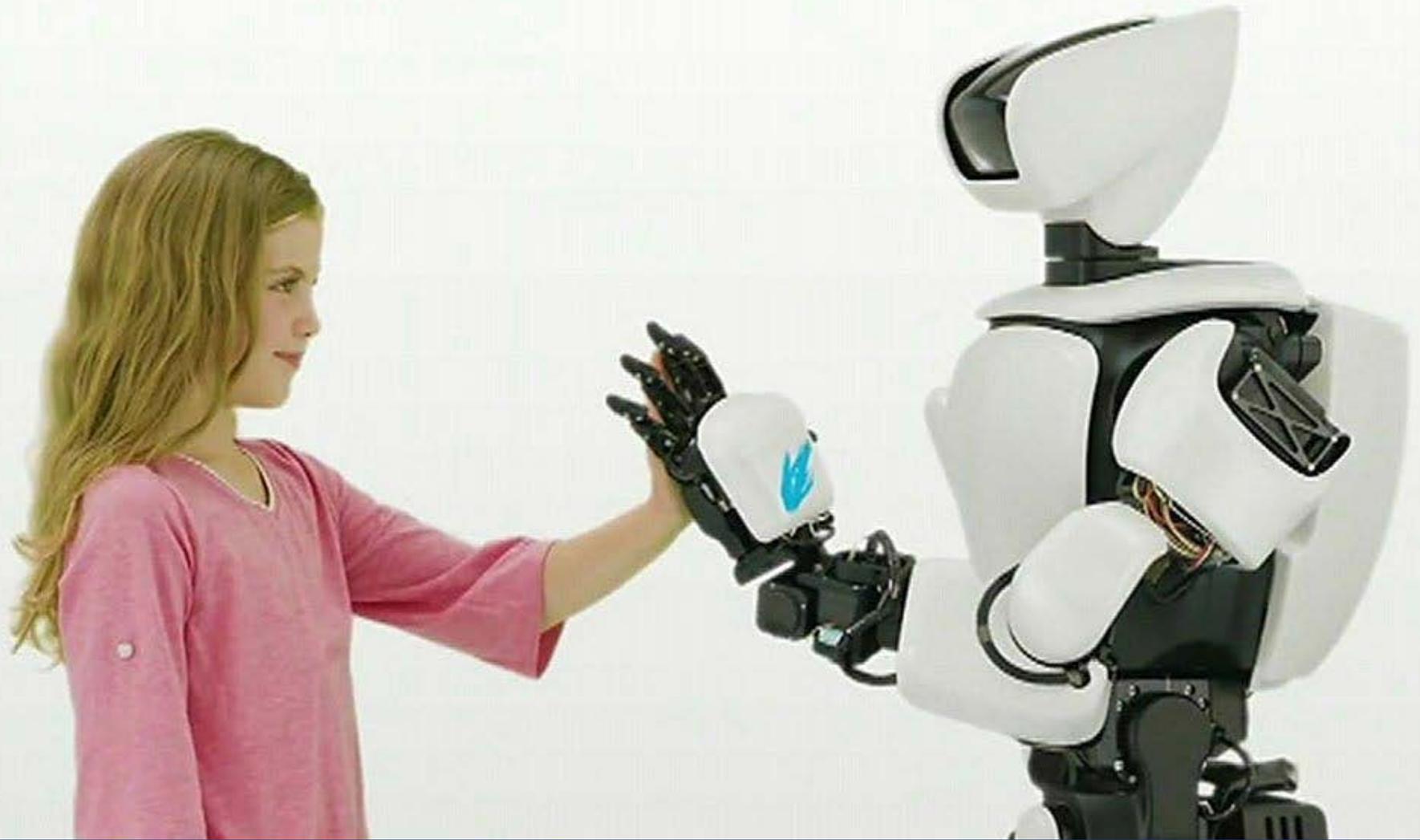
The Bad Man Principle

Ben Casey argues the field of machine ethics or machine morality is wrong-headed:



‘compelling as this lofty vision of robotics engineering may appear at first blush, there is just one tiny detail standing in its way: the entire legal system. After all, liability for injury is governed not by moral codes, but by legal codes. Properly understood, the “practical importance of this distinction between morality and law” —to appropriate the canonical words of Justice Oliver Wendell Holmes—holds profoundly different implications for the role of ethics in robotics engineering.’

Remember Law is a Social Science...



The image reflected in law is us...

