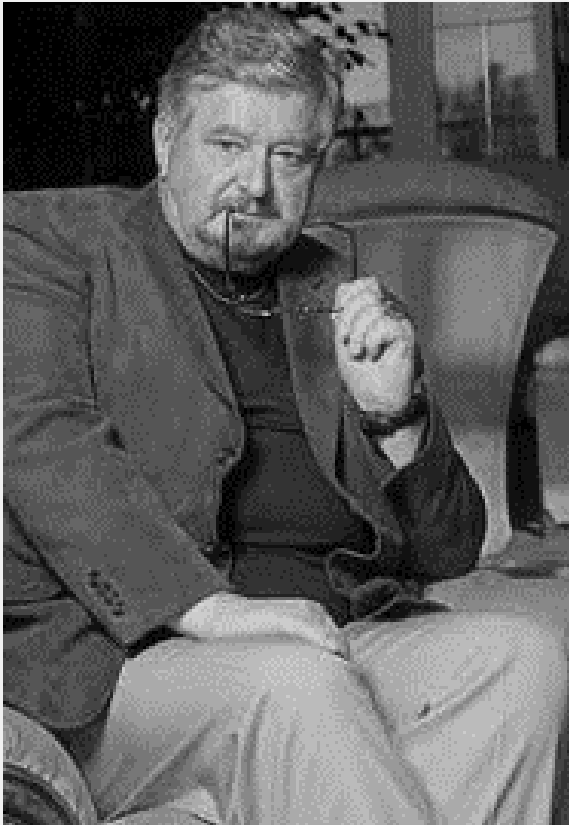


ARTIFICIAL INTELLIGENCE ETHICS IN EUROPE

Adrián Podskl'an

Inspiration



For everything there is a season: time to plant, and time to harvest. Never let yourself to be out of season.

Je třeba žít tak, jako bychom měli zítra zemřít: tedy naplno a v duchu Má dáti-Dal. Je třeba se učit tak, jako bychom měli žít navždy: tedy naplno a do posledního dechu.

- Prof. Milan Zelený, Top Candidate for Nobel Prize 2021
- Reference: Institut Equilibrium, www.milanzeleny.com
 - His Value Added for World is in Chain: Evolutionary economics -> transformations -> metamorphosis -> deglobalization -> relocalization -> from central to local equilibria.

EU Artificial Intelligence Act

EU Artificial Intelligence Act: Risk levels



Source: Richard Tonk, LinkedIn and Adrián Podskl'an: Globální standard pro etiku, bezpečnost a transparentnost AI: ISO 42001, LinkedIn

AI Act Implications I.

There are several characteristics of the notion of mobility worthy of listing:

1. Risk-Based Tiered System: For AI systems classified as high-risk, clear obligations were agreed. A mandatory fundamental rights impact assessment will now be required.
2. Foundation models will be regulated, following President Biden's Executive Order approach, it will apply to models whose training required 10^{25} flops of compute power - basically the largest of the large language models.
3. The following systems will be prohibited with just six months for companies to ensure compliance:
 - biometric categorisation systems that use sensitive characteristics (e.g. political, religious, philosophical beliefs, sexual orientation, race);
 - untargeted scraping of facial images from the internet or CCTV footage to create facial recognition databases;
 - emotion recognition in the workplace and educational institutions;
 - social scoring based on social behaviour or personal characteristics;
 - AI systems that manipulate human behaviour to circumvent their free will;
 - AI used to exploit the vulnerabilities of people (due to their age, disability, social or economic situation).

AI Act Implications II.

There are several characteristics of the notion of mobility worthy of listing:

4. High Risk AI systems are subject to transparency requirements.
5. High-risk AI systems must be designed and developed to manage biases effectively, ensuring that they are non-discriminatory and respect fundamental rights.
6. Providers of high-risk AI systems must maintain thorough documentation to demonstrate their compliance with the regulation. This includes records of programming and training methodologies, data sets used, and measures taken for oversight and control.
7. The AI Act requires human oversight for high-risk systems to minimise risks, ensuring that human discretion is part of the AI system's deployment.
8. Sanctions: Non-compliance can lead to substantial fines, ranging from €35 million or 7% of global turnover to €7.5 million or 1.5% of turnover, depending on the infringement and company size.

Source: Richard Tonk, LinkedIn and Adrián Podskřan: Globální standard pro etiku, bezpečnost a transparentnost AI: ISO 42001, LinkedIn

EU AI Act, NIST AI RMF, and ISO 42001

CHEAT SHEET

Comparing EU AI Act, NIST AI RMF, and ISO 42001

	EU AI Act	NIST AI RMF	ISO 42001
Type of Guidance	Enforceable Regulation	Voluntary Framework	International Standard
Publishing Entity	European Union	US Government	Non-Governmental Standards Body
Requires an Audit?	✓	✗	✓
Requires Organizational Policy?	✓	✓	✓
Provides AI Model Evaluation Guidance?	✗	✓	✗
Recommends Controls?	✗	✗	✓
Requires Risk Assessment?	✓	✓	✓
Requires Model Transparency?	✓	✗	✗
Requires Impact Assessment?	✓	✗	✓
Requires Incident Reporting?	✓	✓	✓
Supplements	<ul style="list-style-type: none"> AI Products Liability Directive Digital Markets Act Digital Services Act 	<ul style="list-style-type: none"> AI RMF Playbook RMF Risk Profiles 	<ul style="list-style-type: none"> ISO 23894 ISO 22989 ISO 38001

Thank you for your attention. Question?



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