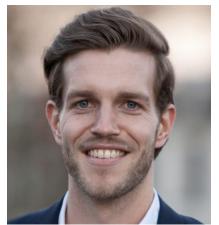
# The potential impact of the Al Act on affective computing research and development

**ACII 2023** 10.09.2023 | Boston

> MIT Media Lab Room: E14-244

Time: 13:30 - 16:30

# **Presenters and Moderators**









Andreas Häuselmann	Deniz Iren	Bhoomika Agarwal	Krist Shingjergji
a.n.hauselmann@law.leidenuniv.nl PhD Candidate eLaw, Center for Law and Digital Technologies Leiden University, The Netherlands	deniz.iren@ou.nl Associate Professor Affective Computing Department of Information Science Open Universiteit, Netherlands	bhoomika.agarwal@ou.nl PhD Candidate Department of Technology Enhanced Learning and Innovation Open Universiteit, Netherlands	krist.shingjergji@ou.nl PhD Candidate Department of Technology Enhanced Learning and Innovation Open Universiteit, Netherlands

# Goal(s)

- Provide "digestible" information regarding Al Act (and other Al regulations)
   specifically tailored to the affective computing community
- Discuss these topics, get <u>your opinions</u>, and prepare a <u>report</u>
- Communicate our community's response to the policy makers (it is still not too late!)

# Participant information package

- Slides (url)
- 2. Al Act Index for Affective Computing Community (1-page, download)
- Paper: Ethical Risks, Concerns, and Practices of Affective Computing: A Thematic Analysis (download)



slides

# Outline

Where: MIT Media Lab | Room: E14-244

When: 10/09/2023 13:30 - 16:30

Part 1: The Al Act proposal (50 mins)

Part 2: LBR (10 mins)

Part 3: Group Discussion (max 90 mins)

Part 4: Presentations of Discussion Highlights (max 30 mins)

# Part 1 - The Al Act proposal

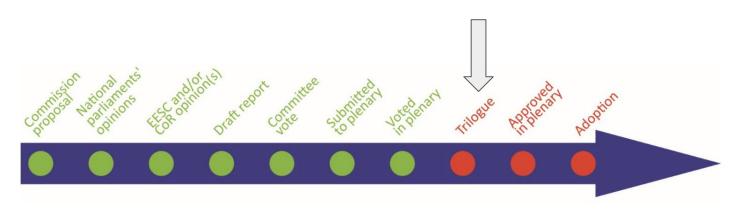
# Part 1 - The Al Act proposal

- Relevance and current state
- Subject matter & scope
- Key actors
- Key definitions
- Prohibited AC systems
- Emotion Recognition Systems as high risk systems
- Obligations for high risk systems
- Cooperation & penalties
- Impact on education

# Current legislative state

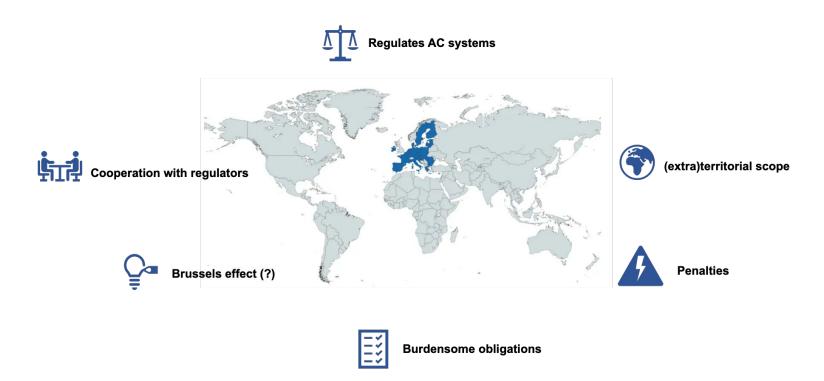


# The Al Act is a **moving target** and subject **to changes**!



Our tutorial is based on the latest proposal of the Al Act adopted by the European Parliament

# Relevance for AC community



# Non-EU Regulations on Al

- Over 167 different AI ethics guidelines exist at the moment including governmental initiatives, supra-national efforts, and guidelines by coalitions, institutions and companies
- China has an enforced Al law while Canada, UK, US, Brazil, Australia, Singapore, Japan, Israel, Italy and Germany are working on draft regulations/legislations
- There is an absence of internal enforcement or governance mechanism seen in most of these guidelines and regulations
- The US has proposed an 'Al Bill of Rights', which has been designed to combat the pervasive fear
  of Al misuse and provides recommendations for safely using Al tools in both the public and private
  sectors, but is not legally binding
- Canada released the <u>Artificial Intelligence and Data Act (AIDA)</u>, intended as "the first step towards a
  new regulatory system designed to guide AI innovation in a positive direction and to encourage the
  responsible adoption of AI technologies by Canadians and Canadian businesses."

https://algorithmwatch.org/en/ai-ethics-guidelines-global-inventory/

https://www.kwm.com/global/en/insights/latest-thinking/summary-of-ai-regulation-around-the-world.html

https://en.wikipedia.org/wiki/Regulation\_of\_artificial\_intelligence

https://www.washingtonpost.com/world/2023/09/03/ai-regulation-law-china-israel-eu/

# Subject matter (Article 1)



# Al Act = mix of safety & fundamental rights regulation

Why?	How?
Promote uptake of <b>human-centric</b> and <b>trustworthy</b> Al	Harmonised rules for the placing on the market, putting into service and use of AI systems in the EU
Ensure a <b>high level</b> of protection of health, safety, fundamental rights, rule of law, and environment from <b>harmful effects</b> of AI systems in the EU	-Risk-based approach (prohibitions, specific requirements for high-risk systems); -Transparency obligations, rules on market monitoring, market surveillance governance and enforcement; -Rules concerning EU's 'AI Office'
while supporting <b>innovation</b>	Measures to support innovation with focus on SMEs and start-ups, including regulatory sandboxes

# Key actors

		_
Provider	actor that develops (or has developed) an Al system with a view to placing it on the market or putting it into service under its own name or trademark	Article 3 (2)
Deployer	actor that uses an Al system under its authority (except personal use)	Article 3 (4)
Importer	actor that <b>places on the market</b> or <b>puts into service</b> an Al system that bears the name or trademark of a natural or legal person established <b>outside</b> the EU	Article 3 (6)
Distributor	actor in the supply chain, <b>other</b> than provider/importer, that makes an <b>Al system</b> available on the <b>EU market</b>	Article 3 (7)
Representative	has received a written mandate from a provider of an AI system to perform and carry out latter's obligations and procedures established by AI Act	Article 3 (5)
Operator	means the <b>provider</b> , the <b>deployer</b> , the authorised representative, the <b>importer</b> and the <b>distributor</b>	Article 3 (8)

# Scope (Article 2)





extra-territorial scope

Providers placing AI systems on the market or putting them into service in the EU (para 1 lit a)

### **Deployers** established or located in the EU

(para 1 lit b)



**Providers** located in the EU 'exporting' prohibited AI systems to third countries

(para 1 lit ca)

**Natural persons** located in the EU that are adversely affected by Al system

(para 1 lit cc)



Importers, distributors, representatives established/located in the EU

(para 1 lit cb)



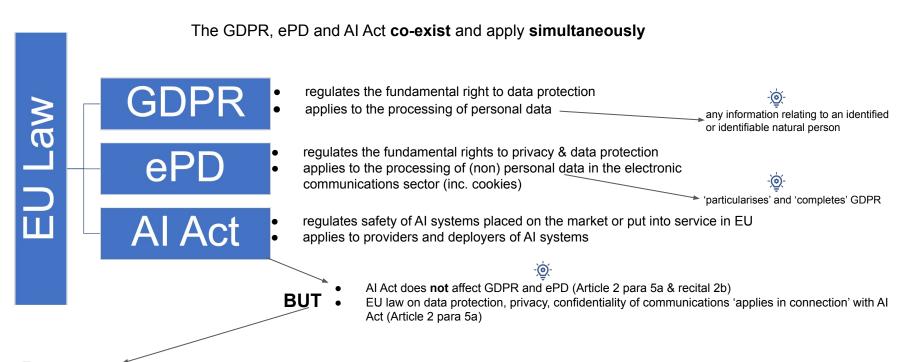
extra-territorial scope

Providers and deployers established or located outside EU ('third country') if:

- foreseen by public international law; or
- output produced by AI system is intended to be used in EU

(para 1 lit c)

# Scope: interplay with EU privacy & data protection law (Article 2 para 5a)



Al Act **prevails** over GDPR (lex specialis) regarding:

- processing of special data to detect bias in high-risk AI systems (Article 10 para 5)
- requirement to obtain consent when processing personal data for ERS (Article 52 para 2)
- processing of personal data for regulatory sandbox purposes (Article 54)

# Scope: research exception (Article 2 para 5d)

- Al Act does not apply to research, testing and development activities
  regarding an Al system provided that it respects fundamental rights and
  applicable Union law
- including fundamental right to data protection
- Recital 2f: exception covers "Al systems specifically developed for the sole purpose of scientific research and development"
- emphasises focus on scientific
- Temporary testing of an AI system for its intended purpose in real world conditions outside of a laboratory or otherwise simulated environment 'testing in real world conditions' is not covered by this exemption
- Al Act to respect freedom of scientific research and not undermine such activities
- Commission and Al Office to further clarify the scope of this exception

# Scope: are researchers/institutions developers and/or deployers?

- Are scientific researchers / research institutions:
  - Providers? Arguably **not**, not necessarily an intention to placing Al systems on the market or putting them into service under own name/trademark
  - Deployers? Arguably **not**, as focus lies on development of Al system, not use

### Key definitions: Al system

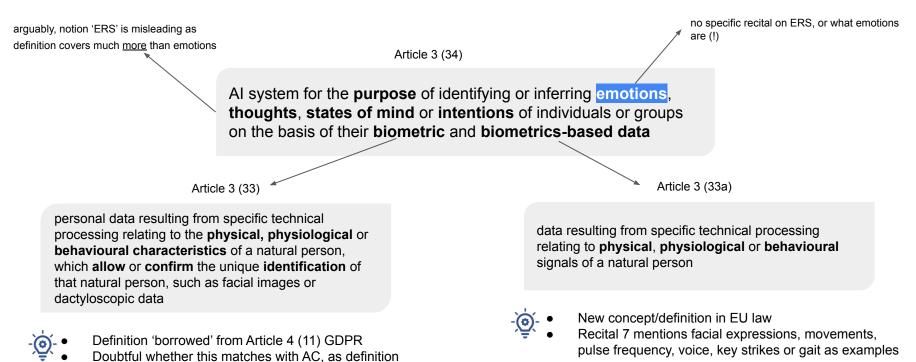
at least some degree of explicit human-defined objectives vs implicit independence of actions from human objectives; objectives of system may differ from controls & of capabilities to operate Article 3 (1) intended purpose without human intervention Recital 6 machine-based system that is designed to operate with varying levels of autonomy and that can, for explicit or implicit objectives, generate outputs such as predictions, recommendations, or decisions, that influence physical or virtual environments contexts in which AI systems operate output generated by the AI system influences environment, even 'by merely introducing new information to it'



- Aligned with <u>OECD</u> and <u>NIST</u> definition
- Focus on ML capabilities (see recital 6a)
- Based on 'key characteristics' of AI such as learning, reasoning, modelling capabilities to distinguish it from simpler software/programming approaches

# Key definitions: Emotion Recognition System ('ERS')

focuses on identification



# How the Al Act proposal aims to regulate AC systems

#### High risk

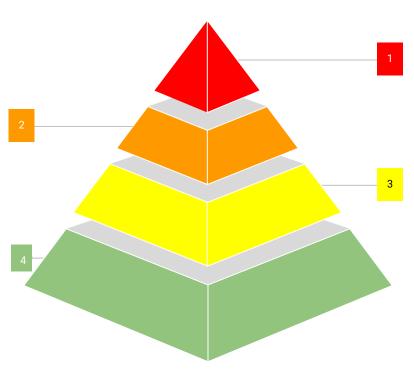
Art. 6 (2); Annex III (1) aa

#### **Emotion Recognition Systems ('ERS')**

Subject to specific requirements (Articles 8-15), transparency & consent obligations (Article 52), third party conformity assessment (Article 43 & recital 64)

#### Minimal risk

Not particularly relevant for AC, e.g. Al-enabled video games, spam filters



#### Unacceptable risk

Art. 5 (1) dc

**Prohibition:** Al systems inferring emotions of natural persons in the context of law enforcement, border management, workplace and education institutions

#### Limited risk

Not particularly relevant for AC, e.g. chatbots

Art. 3 (1) 1a: risk =

probability of an occurrence of harm

severity of that harm

### Prohibited AC systems

Why is the use of AC systems prohibited in some contexts?

- limited reliability: emotion categories are neither reliably expressed through, nor unequivocally associated with, a common set of physical or physiological movement (recital 26c)
- major risks for abuse arise when AC systems are deployed in real-life situations related to law enforcement, border management, workplace and education institutions (recital 26c)

**Inconsistency**: the prohibition in Article 5 (1) dc refers to AI systems to infer emotions of a natural person, but not to the definition of ERS (?)

Note: AC systems might also be prohibited if they:

- deploy subliminal and manipulative or deceptive techniques (Article 5 (1)a) and/or;
- exploit vulnerabilities of a person or group of persons (Article 5 (1)b)

### ERS as high risk systems

#### Why are ERS classified as 'high risk'?

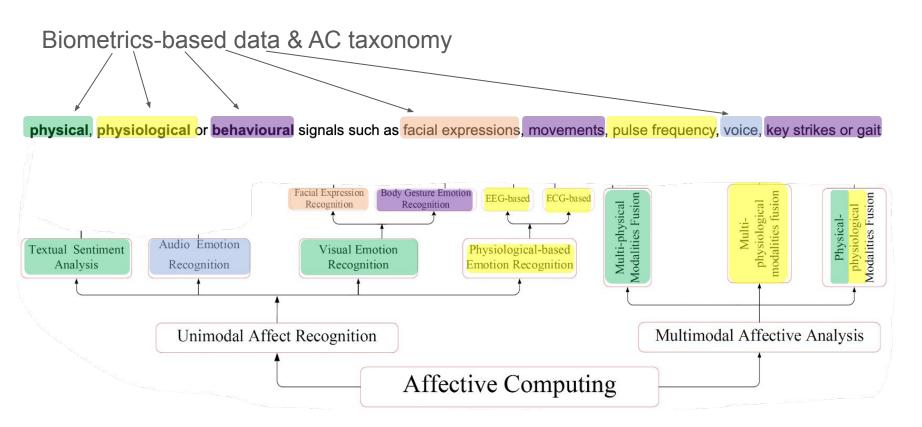
- Because biometric data are protected as 'special data' under the GDPR (recital 33a)
- Due to "serious concerns" about scientific basis of AC systems (recital 26c)
- Because emotions or expressions/perceptions thereof vary considerably across cultures, situations and even 'within a single individual' (recital 26c)
- Key shortcomings (recital 26c):
  - limited reliability of emotion categories
  - o lack of specificity emotion categories do not 'perfectly match' physical/physiological expressions
  - o limited generalisability effects of context and culture are not 'sufficiently' considered

### ERS as high risk systems

- Definition ERS covers single-modal and multi-modal approaches in AC
- The classification as high risk system under Al Act does not indicate that the use of such a system is necessarily lawful or unlawful under EU law, such as EU data protection law (recital 41)
- Arguably limited relevance of biometric data
  - definition focuses on identification
  - doubtful whether this matches with AC systems
  - legislative flaw (?)
- Biometrics-based data are highly relevant



under GDPR, biometric data is **only** protected as 'special' data if processed to **uniquely identify** individual see Article 9 (1) GDPR



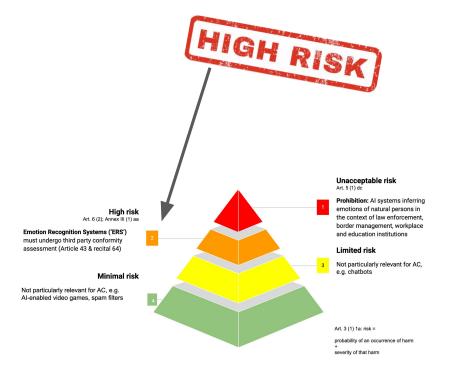
Y. Wang et al (2022) A systematic review on affective computing: emotion models, databases, and recent advances Volumes 83-84 Information Fusion

# Compliance high risk systems

- Articles 8-15 focus on requirements of Al system
- Articles 16-23 focus on providers
- Articles 24-26 focus on actors *other* than providers/deployers
- Article 28 focuses on value chain
- Article 29, 29a focus on deployer
- Article 40-51 focus on standards and conformity assessments

# Requirements for high risk systems

- Risk management system Article 9
- Data and data governance Article 10
- Technical documentation Article 11
- Record keeping Article 12
- Transparency Article 13 & 52
- Human oversight Article 14
- Accuracy, robustness and cybersecurity Article 15
- Responsibility among AI value chain Article 28
- Fundamental rights assessment Article 29a



# Risk management (Article 9)



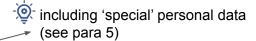
#### Should run throughout entire lifecycle of Al system -> continuous iterative process



# Data & data governance (Article 10)



- High quality of training validation & testing data dependent on market segment and scope of application
- Data governance requirements such as
  - design choices
  - data handling
  - assessment of availability, suitability and quantity of data



- Processing of personal data for bias detection and correction allowed under some conditions, i.e.
  - bias detection not possible with processing synthetic or anonymised data;
  - data are pseudonymised,
  - provider takes appropriate technical and organisational measures
  - no disclosure and erasure once bias has been corrected
  - effective measures to ensure availability, security and resilience of processing systems
- Obligations transferable to deployer where provider is not in a position to assess data that is with deployer

# Technical documentation (Article 11 & Annex IV)



- Specified in Annex IV
- General description of Al system including, e.g.
  - intended purpose, nature of data, categories of persons or groups likely to be affected by use of system
  - description of hardware, deployer's interface, optimisation goals, expected output and output quality
  - detailed instructions for interpreting system's output
- **Detailed** description of AI system and process for its development including, e.g.
  - o architecture, design specifications, key design choices
  - algorithms and data structures including decomposition of its components and interfaces, how they
     relate to one another and how they provide for the overall processing or logic of the system
  - data requirements, assessment human oversight
  - o validation & testing procedures used, including metrics used to measure accuracy, robustness

### Record keeping (Article 12)



- State of the art logging capabilities facilitating monitoring of operations according to Article 29(4) and post market monitoring (Article 61)
- Recording of events that may lead to substantial modification of the system
- Logging capabilities enabling the recording of energy consumption, measurement or calculation of resource use and environmental impact of system

# Transparency (Article 13)



- Operation of system must enable providers and deployers to reasonably understand system's functioning
- Transparency = all technical means available are used to ensure that Al system's **output** is **interpretable** by the **provider** and **deployer**
- Instructions for use need to specify (e.g.):
  - characteristics, capabilities and limitations of performance including accuracy, robustness, cybersecurity and circumstances that may have an impact thereon
  - o possible risks of use
  - degree to which system can provide an explanation for decision it takes
  - o performance regarding the **persons**/groups of person on which system is intended to **be used**
  - o information about user actions that may influence system performance
  - o information about training, validation and testing data sets used
  - predetermined changes to system
  - human oversight measures
  - maintenance & care measures
- Thus: **extensive** and **formalistic** list of transparency requirements

# Transparency of ERS (Article 52)



- Article 52(2a) obliges deployers to inform individuals concerned about the operation of ERS
- Recital 70 explains that "natural persons should be notified" when exposed to ERS, but does not further clarify what that precisely entails
- Arguably, it simply means to make natural persons aware that they are exposed to an ERS
- Deployers of ERS are not obliged to inform individuals about what specific emotion the system detected

Note: deployers must obtain consent from natural persons exposed to ERS



Al Act = lex specialis and prevails over Article 6 GDPR, which contains additional grounds for processing other than consent

### Human oversight (Article 14)



- Effective oversight by human, aiming to prevent/minimise risks
- Human oversight must take specific risks, level of automation and context of system into account
- Human must have sufficient level of AI literacy (Art. 4b) and necessary support/authority to exercise function
- Human must be able to
  - understand relevant capacities & limitations of system
  - remain aware of automation bias
  - correctly interpret output generated by system
  - o decide to not use, disregard, override or reverse output
  - o intervene on the operation of the system (e.g use 'stop button' or similar mechanism)

# Accuracy (Article 15)



- In light of intended purpose, system must achieve appropriate levels of accuracy, robustness and cybersecurity
- Resilience regarding errors, fault or inconsistencies in particular due to interaction with persons
- Al Office to provide non-binding guidance on how to measure appropriate level of accuracy and robustness
- Levels of accuracy and relevant accuracy metrics must be declared in the accompanying documentation containing inter alia:
  - the overall expected level of accuracy in relation to its intended purpose similar to accuracy in data protection law
  - detailed information about the system's degree of accuracy for specific persons or groups of persons on which the system is intended to be used

accuracy under the Al Act more specific than accuracy in data protection law

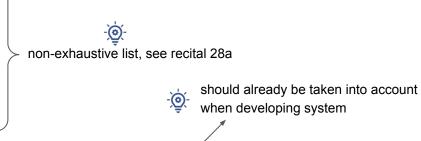
# Fundamental rights impact assessment (Article 29a)



Deployers must perform an assessment **before** using system considering (a.o.):

- lit d: verification that use of system complies with EU and national laws on fundamental rights
- lit e: 'reasonably foreseeable impact' on fundamental rights such as
  - right to human dignity
  - right to privacy and protection of personal data
  - freedom of expression and information
  - non- discrimination
  - right to education and consumer protection
  - workers' rights & rights of persons with disabilities
  - gender equality
  - intellectual property rights
- lit f: specific risk of harm likely to impact marginalised groups and vulnerable groups
- lit h: detailed plan how harms and negative impact on fundamental rights will be mitigated
- lit i: governance system concerning human oversight, complaint handling and redress

Deployers must notify national Supervisory Authority and involve representatives of persons/groups likely to be affected



# Cooperation (Article 23)



- Upon 'reasoned request', providers and deployers obliged to provide all the information and documentation necessary to demonstrate compliance with requirements applicable to high risk systems (including logs) with:
  - National competent competent supervisory authority; or
  - Al Office; or
  - European Commission
- According to recital 79, this includes access to:
  - the training, validation and testing datasets;

- after having exhausted all 'other reasonable ways' to assess/verify conformity with requirements applicable to high risk systems
- the trained and training model of the high-risk AI system, including its relevant model parameters and their execution /run environment;
- the source code
- Such information constitute 'trade secret' and are subject to confidentiality obligations

# Responsibilities among Al value chain (Article 28)



- Distributor, importer, deployer or 'other third party' become a provider of high risk system if they:
  - put their name or trademark on high risk AI system; or
  - make a substantial modification on high risk system; or
  - make a substantial modification to an AI system so that it becomes a high risk system.
- In these cases, the provider that initially placed AI system on the market or put it into service is no longer provider of that system
- However, 'initial' provider to disclose technical documentation and all other relevant information to 'new' provider

(substantial modification' recital 66

- unplanned change, including continuous learning, creating new unacceptable risk and significantly affect compliance of high risk system
- intended purpose of the AI system changes
- for AI systems that continue to learn: changes to the algorithm and its performance that have been pre-determined by the provider and assessed at the moment of conformity assessment do <u>not</u> constitute a substantial modification

## Penalties (Article 71)

- Administrative fines of up to € 40'000'000 or 7% of worldwide annual turnover for non-compliance with provisions relating to prohibited AI systems
- Administrative fines of up to € 20'000'000 or 4% of worldwide annual turnover for non-compliance with provisions concerning:
  - data and data governance (Article 10)
  - transparency (Article 13)
- Administrative fines of up to € 5'000'000 or 1% of worldwide annual turnover for the supply of
  incorrect, incomplete or misleading information to notified bodies and national competent authorities

## Regulation mechanisms

- The Al Act specifies a regulatory sandbox and national supervisory authorities to ensure implementation
- 'regulatory sandbox' means a controlled environment established by a public authority that facilitates the safe development, testing and validation of innovative AI systems for a limited time before their placement on the market or putting into service pursuant to a specific plan under regulatory supervision; (Article 3, point 44(g))
  - How technologically feasible is this, especially given the fast-paced AI developments and the lack of a current prototype?
- 'national supervisory authority' means a public authority to which a Member State assigns the
  responsibility for the implementation and application of this Regulation, for coordinating the activities
  entrusted to that Member State, for acting as the single contact point for the Commission, and for
  representing the Member State in the management Board of the Al Office; (Article 3, point 42)
  - A lot depends on how stringent these authorities are and how effective the communication is

#### EU Al Act and education

Recital 35 acknowledges the importance of AI systems in education

Lists systems that would qualify as high-risk

- since they may determine the educational and professional course of a person's life and therefore affect their ability to secure their livelihood.
- such systems can be particularly intrusive and may violate the right to education and training as well as the right not to be discriminated against and perpetuate historical patterns of discrimination

Educational and vocational training systems under high-risk that are prohibited (Annex III, paragraph 1):

- systems that influence the admission decisions
- assessing students
- assessing the level of education that students receive or access
- influencing the level of education that an individual will receive
- monitoring and detecting students' prohibited behaviour during tests in the context of education

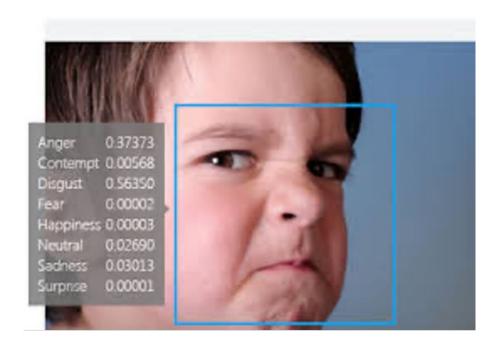
## Provocative questions - impact on education

- Will these regulations cause the EU to miss out on the latest AI developments?
  - Google Bard as an example
  - Competitive disadvantage for the EU
- Will some educational AC research have to be re-evaluated and revamped before being released as a product?
  - While research is exempted, it can only be evaluated by deploying it in 'real-world scenarios'

## Recap

- Al Act excludes scientific research. However, it might implicate the real-life applications (e.g., patents, products) of research, potentially hindering grants and sustainability of research
- Al Act is also relevant for actors **outside** the EU (extraterritorial scope, Brussels effect)
- AC systems in context of law enforcement, border management, workplace and education institutions are prohibited
- ERS are high risk, irrespective of context
- Let's improve lawmaking and discuss shortcomings, deficiencies and efficient risk mitigation mechanisms

# Questions?



## Part 2 - Late Breaking Results Paper

Ethical Risks, Concerns, and Practices of Affective Computing A Thematic Analysis

# Ethical Risks, Concerns, and Practices of Affective Computing

A Thematic Analysis

11.09.2023 | @MIT Media Lab, Boston

Deniz Iren | deniz.iren@ou.nl Associate Professor, Open Universiteit https://www.linkedin.com/in/deniziren/

Ediz Yildirim | ediz.yildirim@ou.nl PhD Researcher, Open Universiteit

Krist Shingjergji | krist.shingjergji@ou.nl PhD Researcher, Open Universiteit





## Introduction

- Al is progressing fast, raising concerns
- Ethical safeguards are needed
- Rules and regulations are being prepared
- Affective computing is particularly sensitive
- Affective Computing community is also taking action to ensure ethical practice
- We aim at investigating the ethical considerations of our community

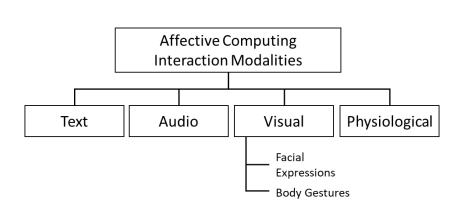


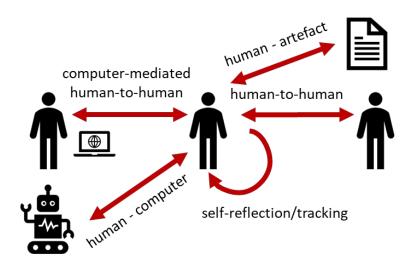


## **Research Questions**

- RQ1: What are the <u>ethical risks</u> and <u>concerns</u> reported by affective computing researchers?
- RQ2: What are approaches proposed by affective computing researchers to <u>mitigate</u> these risks?
- RQ3: What is the <u>potential impact of the</u> <u>regulations</u> (e.g., The Al Act) on different types and applications of affective computing?

# Background





Typology of affective computing interaction modalities

Typology of **communication channels** enhanced by affective computing

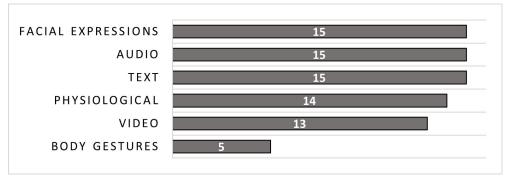
# Methodology

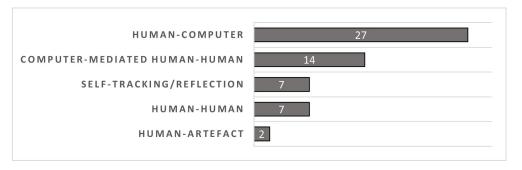
- <u>Data</u>: Ethical impact statements, N=70
- Method: Thematic analysis
- Goal: To identify reported limitations, risks/concerns, and mitigation strategies
- <u>Code groups</u>: **study**-related, **data**-related,
   **application**-related



# Findings

#### **Descriptive analysis**





## Codes:

- 40 x limitations
- 42 x mitigation strategies

# <u>Categories</u> <u>Themes</u>

STUDY

- Human subjects
- · Study design
- Environmental impact

**DATA** 

- Data quality
- Nature of data
- Data accessibility

**APPLICATION** 

Application

# Findings: Study-related

	THEMES	CODES				
	THEMES	LIMITATIONS	RISKS	MITIGATION		
	HUMAN SUBJECTS	Participant selection and compensation (3)	□ Limited oversight (2)	□ Involve IRB(26)		
			⇔ Harm to participants (2)	⇔ Apply informed consent (22) ←		
				⇒ Participants can drop-out at will (4)		
				□ Transparent reporting (2)		
×	STUDY DESIGN	⇔ Context-specific (2) ←	Results are not generalizable (6)	Improve the study (5)		
STUDY			Reduced construct validity (2)	→ Conduct more research (4)		
				→ Improve the performance (3)		
	ENVIRONMENTAL IMPACT			⇔ Examine and report environmental impact (2)		
			⇔ Environmental Impact (5)	□ Train small models (1)		
			- Environmental impact (3)	⇔ Use pretrained models (1)		
				Avoid over-personalization of models (1)		

# Findings: Data-related

	THEMES	CODES				
	THEMES	LIMITATIONS	RISKS	MITIGATION		
DATA	DATA QUALITY	<ul> <li>⇒ Small sample size (10)</li> <li>⇒ Sample is not representative (4)</li> <li>⇒ Demographics (4)</li> <li>⇒ Limited set of emotions (1)</li> <li>⇒ Data imbalance (2)</li> </ul>	<ul> <li>➡ Results are not generalizable (6)</li> <li>➡ Discrimination (3)</li> <li>➡ Biases (24)</li> <li>➡ Reduced accuracy (3)</li> </ul>	→ Collect more data (10)  → Collect more data (7)  → Collect more diverse data (4)  → Apply sampling strategies (2)  → Balance data (3)  → Examine the biases (4)		
	NATURE OF DATA		<ul> <li>⇒ Sensitive data (5)</li> <li>→ Healthcare/mental</li> <li>→ Offensive content</li> <li>⇒ Private data (14)</li> <li>⇒ Personally identifiable data (1)</li> <li>⇒ Unauthorized access to the data (2)</li> <li>⇒ Unclear IP rights and licensing (2)</li> </ul>	→ Use multiple datasets (2)  → Anonymization/De-identification (22)  → Setup data protection policy (2)  → Establish data protection measures (2)		
	OPEN DATA	⇔ Private/unavailable research data (2)	<ul> <li>➡ Reproducibility is hindered</li> <li>➡ Misuse of data</li> </ul>	<ul> <li>➡ Make research data available (5)</li> <li>➡ License the published datasets (2)</li> <li>➡ Establish EULA for published datasets (2)</li> </ul>		

# Findings: Application-related

	THEMES	CODES				
		LIMITATIONS	RISKS	MITIGATION		
	APPLICATION	□ Limited stakeholder involvement (2)		☐ Identify and address failure consequences (1)		
APPLICATION		Critical domains and application fields	→ Surveillance	Provide transparent information to user (2)		
		→ Healthcare (20) → Deception				
		→ Education (4) → Manipulation				
		→ Social services (9)	(9) → Restrict autonomy			
		→ Law enforcement and border control (0)	⇔ Societal adverse impact (2)			
		→ Workplace (2)	→ Limit fundamental rights			
			→ Controversial subjects			
			⇔ Failure consequences (1)			

## Conclusion

- Please, see the paper for more details
- Let's meet
  - LBR Flash Talks on Monday 3:00-4:30
  - LBR Poster Session on Tuesday 3:00-4:30
- Tune in, for the journal extension
- Reach out: <u>deniz.iren@ou.nl</u>



# **Part 3 - Group Discussion**

# Part 3: Group Discussion (max 90 mins, with coffee :) )

### 1. **Goals:**

- Discuss Al Act (and Al Regulations)
- Share concerns, risks, improvement suggestions, clarifications...
- Then, we will prepare a report

#### 2. Consent

Please let us know if you do not give **consent** to data collection with the purpose of creating a report:

- Moderators notes during group discussions.
- Participant notes on the provided templates.
- No names, personal info, only group numbers

## Part 3: Group Discussion

## 3. Expert availability

Andreas will be available to answer your legal questions and provide clarifications if needed.

## 4. Form groups

3-5 people | according to similarity (domain > modality > risk-level)

	DOMAIN					
		HEALTH	EDU	INDUSTRY	DEFENSE	OTHERS
MODALITY	FACIAL EXPRESSION					
MODALITY	BODY LANGUAGE					
	SPEECH					
	WEARABLES					
	OTHERS					

## Part 3: Group Discussion

### 5. **Guiding questions**

Use the guiding questions to lead the discussion (if needed)

#### 6. Take notes

Preferably on the templates

## 7. Group highlights and discussion

At the end, groups will shortly present their highlights and discuss with other groups.

# **Guiding Questions**



questions



slides

# **Part 4 - Presentations of Discussion Highlights**

# Part 4: Group Presentations (max 30 mins)

- Presentation of the highlights
- Open discussion

## The End

Thank you for your participation

## If you want to be notified regarding the results

- Give us your email
- Contact us