ARTIFICIAL INTELLIGENCE REGULATION

Dr. Christian M. Stracke
University of Excellence Bonn, Germany

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stracke@uni-bonn.de  http://www.opening-up.education
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About me

Coordinator Virtual Collaboration & Cloud, University of Bonn
Adjunct Professor, Korean National Open University
Advisory Professor, East China Normal University
Founder & Director, European Research Institute eLC
100+ research projects with 55+ Mio. € budgets
170+ scientific publications incl. 90+ peer-reviewed / SSCI
Creative design & training for 15,000 teachers & 5,000 schools
Elected Chair of ISO & CEN Standardization Committees
International crises

Economic crisis (Hayes, profit only)
Education crisis (innovations, quality)
Media crisis (literacy, fake news)
Societal crisis (ethics, egoism)

We need innovative and high quality Open Education for all as human right
Current challenges

COVID-19 pandemic & lockdowns
War in Ukraine & many countries
Climate change, poverty, hunger

New Normal?

We need innovative and high quality
Open Education for all as human right

https://www.unicef.org/reports/unicef-75-preventing-a-lost-decade
What is AI?

Strong AI vs. Weak AI
Intelligence vs. Automatisation

Data-driven AI vs. Knowledge-based AI

Hybrid AI - but always: Human to human
Special case of education

Education as human right
SDG 4: Education for all

Mandatory school visit
Learning cannot be forced

Time pressure

Graphic: Christian Bauckhage (University of Bonn)
Artificial Intelligence Regulation

Human rights, democracy, rule of law

Commercial monopolism

Ethical use of AI

Educational AI scenarios

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Artificial Intelligence Regulation - Christian M. Stracke

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AI Act

Impact-oriented approach

2021-04-21: Proposed by the European Commission

2023: General-purpose AI added

2024-03-13: Approved by the European Parliament

2024-05-21: Approved by the EU Council
Unacceptable risk AI systems: prohibited

High-risk AI systems: regulated

Limited risk AI systems: transparency and awareness obligations

Minimal risk AI systems: unregulated
Unacceptable risk = prohibited

- distorting behaviour, decision-making & causing significant harm
- exploiting vulnerabilities & biometrics
- creating & using social scoring & profiling
- inferring facial & emotional recognition
- real-time remote biometric identification

but several exceptions
AI Act

High-risk AI systems = regulated

- covered by EU laws in Annex I & requiring a third-party conformity assessment
- listed under Annex III use cases such as non-banned biometrics, infrastructure, education, employment, access, law, migration, legal & public administration but several exceptions
Limited risk = Certain AI systems = transparency obligations for AI providers and deployers ensuring that end-users are aware that they are interacting with AI (chatbots and deepfakes)
CORRIGENDUM

In accordance with Rule 241 of the Rules of Procedure of the European Parliament, the above position is corrected as follows:

REGULATION (EU) 2021... OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL...


Text with EEA relevance

THE EUROPEAN PARLIAMENT AND THE COUNCIL OF THE EUROPEAN UNION...
Governance by AI Office

Timeline with diverse deadlines

Conformity assessment, registration, technical documentation, AI criteria, Code of Practice to be defined

Annexes can be changed
Education in AI Act:

- Recitals 4, 48, 44, 56 & 96
- Articles 4 (AI literacy), 5 (Prohibited) & 9 (High-risk)
- Annex III (High-risk)
AI&ED Expert Group by CoE

Our networks

AI and Education Workshop
@ AIED Conference 2024 in Recife, Brazil
http://aied2024.learning-innovations.eu

Network "Ethical use of AI"
European Community for AI policies
https://ethicalai.ecompetence.eu
Networks "Ethical use of AI"

European & German networks

Guidelines "What is AI?"
for teachers at universities
- 10 statements (1 page)
- FAQ with answers plus practice recommendations (2 pages)

https://doi.org/10.5281/zenodo.10995669
And the AI future?
My key messages

1. Artificial intelligence changes more than computers and COVID-19 (& everything)

2. AI has to be regulated worldwide: There is only little time ...

3. Education and AI have to focus more ethics, democracy, & the social society

AI and Education

Interested? Contact me!

Dr. Christian M. Stracke
Coordinator Virtual Collaboration & Cloud
stracke@uni-bonn.de

www.vico.uni-bonn.de
www.hrz.uni-bonn.de
References


Stracke, C. M. et al. (2024): What is Artificial Intelligence (AI)? How can I use AI ethically at university? Edited by the German Network "Ethische Nutzung von KI". https://doi.org/10.5281/zenodo.10995669


References


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and many more, all are openly and freely available at: http://www.opening-up.education
Thank you for your attention!

Interested? What are your questions?

Dr. Christian M. Stracke
Coordinator Virtual Collaboration & Cloud
stracke@uni-bonn.de

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