

2023-10-10 Practice Exam

1. Human rights

What are the main reasons why the human rights enumerated in the Universal Declaration of Human Rights have authority as normative premises in argumentation about policy in the Netherlands?

2. Four principles

Which fifth principle has been added to the four principles of ethics derived from the Belmont Report, as an extra principle that is needed for trustworthy AI in a European context?

3. Goodall

Goodall argues that it may be possible to use machine learning to train autonomous vehicles to make some ethical decisions. What data does he think should be used for the training?

4. HCAI

What values does Schneiderman claim will be promoted if we adopt human-centered AI instead of full technological automation? In your opinion, would these values actually be promoted by HCAI? Why or why not?

5. Human skills and work

Explain one of Zoller's arguments for the claim that AI might lead to a loss of human value. Give his premises and conclusion in a way that is not obviously invalid.

6. Environmental impact of AI

Lin argues that we should take several steps to protect the environment from the impact of machine learning. What are his main proposals?

7. Explainability

Why do Hatherley et al. say that there is not just one problem of explainability in medical AI, but multiple problems of explainability? Briefly explain.

8. Self-driving cars

What is meant by *mixed traffic* in the article of Nyholm & Smids? What are their arguments that there is no practical way to avoid serious ethical question about how to design for mixed traffic? Explain your answers.

9. Medical AI

What are three reasons in favor of doing an RCT to test the effect of an expert system in a medical context? Briefly explain.

10. Generative AI

Khosrowi et al. (2023) argue that we should adopt a "collective-centered creation" model of credit for artistic works created using generative AI. Give an example of how the CCC theory

would allocate credit for a Stable Diffusion artwork created by an amateur using the prompt “Cat on a mat”. Be sure to consider all the relevant candidate stakeholders who are sometimes part of the “collective”.

11. AI in military applications

What is meant by “meaningful human control”, and what is Johnson’s (2023) main criticism of the idea of meaningful human control?

12. Superintelligence

Not covered for credit on the exam. An extra credit question about the readings will appear on the exam.