

510.101, KV Responsible AI, Martina Mara / Laura Moradbakhti, 2021W

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Bewertung 17,50 von 26,00 (67%)

Frage 1

Falsch

Erreichte
Punkte 0,00
von 2,00

Frage
markieren

What is NOT among the three key aspects that the EU Ethics Guidelines for Trustworthy AI identify as important for "Transparency"?

- ☐ Explainability
- ☒ Communication ✖
- ☐ Traceability
- ☐ Documentation

Die richtige Antwort ist: Documentation

Frage 2

Richtig

Erreichte
Punkte 2,00
von 2,00

Frage
markieren

Dr Lynn Kaack gave some examples of how AI can be helpful for tackling Climate Change.

Specifically, she explained how AI can help to reduce energy consumption of heating, ventilation and cooling (HVAC) in buildings.

Out of the following four options, which AI approach did she NOT mention?

Wählen Sie eine Antwort:

- ☒ analyze pricing patterns ✔
- ☐ predictive maintenance
- ☐ forecasting of temperature needs
- ☐ analyze consumption patterns

Die richtige Antwort ist:
analyze pricing patterns

Frage 3

Richtig

Erreichte
Punkte 2,00
von 2,00

🚩 Frage
markieren

MIT's Moral Machine experiment indicates that ...

Wählen Sie eine Antwort:

- ☐ ... many Europeans want autonomous vehicles to protect elder pedestrians.
- ☐ ... a universal moral code for autonomous cars is possible and can be democratically legitimized.
- ☐ ... the interests of smaller segments of the population can be protected by means of a large dataset.
- ☒ ... many Europeans want autonomous vehicles to protect younger pedestrians. ✓

Die richtige Antwort ist: ... many Europeans want autonomous vehicles to protect younger pedestrians.

Frage 4

Richtig

Erreichte
Punkte 2,00
von 2,00

🚩 Frage
markieren

AI systems are always ...

Wählen Sie eine Antwort:

- ☐ efficient.
- ☐ responsible for their decisions.
- ☐ more neutral than humans.
- ☒ designed artefacts. ✓

Die richtige Antwort ist: designed artefacts.

Frage 5

Falsch

Erreichte
Punkte 0,00
von 2,00

🚩 Frage
markieren

Which of the following is NOT a factor of the Three-Factor Theory of Anthropomorphism (Epley, Waytz & Cacioppo, 2007)?

Wählen Sie eine Antwort:

- ☐ elicited agent knowledge
- ☒ effectance motivation ✖
- ☐ agency motivation
- ☐ sociality motivation

Die richtige Antwort ist:
agency motivation

Frage 6

Falsch

Erreichte
Punkte 0,00
von 2,00

🚩 Frage
markieren

What is the Privacy Calculus Approach?

Wählen Sie eine Antwort:

- ☒ It refers to our innate desire to keep important information to ourselves. ✖
- ☐ It refers to people that defend users' privacy regulations against big social media companies.
- ☐ Users calculate how risky it is to illegally sell information from other users online.
- ☐ Users calculate risks and benefits of disclosing information about themselves. They base their decision to reveal or withdraw personal information on the outcome of that calculation.

Die richtige Antwort ist:
Users calculate risks and benefits of disclosing information about themselves. They base their decision to reveal or withdraw personal information on the outcome of that calculation.

Frage 7

Richtig

Erreichte
Punkte 2,00
von 2,00

🚩 Frage
markieren

What are the names of 2 ethical approaches we introduced to you?

Wählen Sie eine Antwort:

- ☐ Tontological and Instrumentalist
- ☐ Idealism and Pantheism
- ☐ Theology and Jurisprudence
- ☒ Deontological Ethics and Consequentialism ✓

Die richtige Antwort ist:

Deontological Ethics and Consequentialism

Frage 8

Vollständig

Erreichte
Punkte 3,00
von 3,00

🚩 Frage
markieren

Give a definition of what Explainable AI (XAI) is.

Why is XAI needed and how does it relate to trust?

Explainable AI is AI technology that gives additional information on how it reached its conclusion, or explains the pattern it searched for (if it is a pattern searching AI). For example an image recognition AI that is "XAI" should

be able to point to specific patterns which it used to conclude its findings. "This is a cat because it has whiskers, is not as big as a leopard, and is a mammel etc."

We trust technology more, the more we understand it (to a certain point). An AI that is "open with its flaws" (= for example explains how the filtering of information could go wrong) or an AI that explains its conclusion is more trusted by users than those who dont.

Also public education about AI and Demystification leads to a better trust relationship and less overestimating of its "powers".

Frage 9

Richtig

Erreichte
Punkte 2,00
von 2,00

Frage
markieren

What described Ernst Jentsch in his famous article "On the Psychology of the Uncanny" as a strong trigger for uncanny feelings?

Wählen Sie eine Antwort:

- ☐ Computer-generated characters whose eyes look artificial.
- ☒ Doubt as to whether a lifeless object may not in fact be animate. ✓
- ☐ AI-generated portraits of people who do not exist in reality.
- ☐ Doubt as to whether an apparently friendly being may not in fact be a threat.

Die richtige Antwort ist: Doubt as to whether a lifeless object may not in fact be animate.

Frage 10

Richtig

Erreichte
Punkte 2,00
von 2,00

Frage
markieren

"Reduced inequalities", "Good health and wellbeing", "Affordable and clean energy", and "Quality education" are all part of the ...

- ☒ UN Sustainable Development Goals ✓
- ☐ IEEE Goals for Computer Science in Society
- ☐ Principles of Responsible Corporations Globally
- ☐ Universal Declaration of Human Rights

Die richtige Antwort ist:
UN Sustainable Development Goals

Frage **11**

Richtig

Erreichte
Punkte 2,00
von 2,00

🚩 Frage
markieren

In its report "Who is winning the AI race", the Center for Data Innovation (2019) concludes that ...

Wählen Sie eine Antwort:

- ☐ ... the USA has the lead in available data.
- ☒ ... Europe struggles to translate AI research into business applications. ✓
- ☐ ... China struggles to catch up with AI developments.
- ☐ ... Europe is a major AI talent attractor.

Die richtige Antwort ist: ... Europe struggles to translate AI research into business applications.

Frage **12**

Vollständig

Erreichte
Punkte 0,50
von 3,00

🚩 Frage
markieren

Explain the Similarity Attraction Paradigm and provide an example for this theory from at least one Human-Computer Interaction study.

The similar Attraction Paradigm says that similar humans tend to like each other more, in and out-group thinking is a direct consequence of this paradigm. Now one can translate this Paradigm to the computer/AI to human relationship.

We tend to trust Technology which has certain human features more than those who don't. (Also only to a certain point -> Uncanny Valley)

Examples are: autonomous car with painted eyes.

prototype robots which have cute and human-like features.