Generative AI - Can you detect the fake content?

Introduction: Thank you for participating in this academic research study on the paradoxes of Generative AI. This social experiment aims to explore human ability to discern between real and fake content generated by advanced AI.

Purpose: The purpose of this study is to investigate the effectiveness of human perception in identifying AI-generated fake content. Your participation will provide valuable insights into the strengths and limitations of human cognitive abilities in identifying misinformation.

Instructions:

- Please complete this form independently, without discussing it with friends or others. This ensures the integrity of the results.

* Indicates required question

1. Name *

    _____

2. Age *

    _____

3. Education *

    Mark only one oval.

    ( ) Matriculation

    ( ) Bachelors

    ( ) Masters

    ( ) Doctorate

    ( ) Other: _____

4. Gender *

    Mark only one oval.

    ( ) Female

    ( ) Male

    ( ) Prefer not to say

    ( ) Other: _____

Depictions

Advancements in Generative Adversarial Networks have enabled the generation of highly realistic images. The goal of this experiment is to understand how well people can differentiate between AI-generated images and those created by humans, shedding light on the balance between AI's creative capabilities and potential for plagiarism or harm.

If you can't differentiate between the pictures, kindly choose only the last option with your remark.

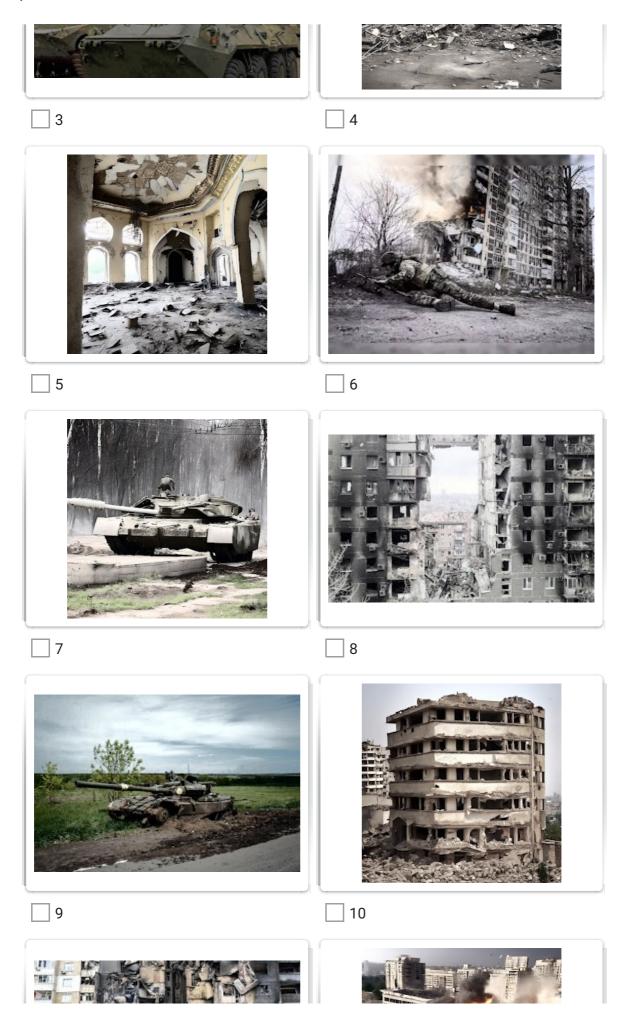5. Please choose the images which you perceive as real. *

    Tick all that apply.

[ ] 1

[ ] 2

☐ 3

☐ 4

☐ 5

☐ 6

☐ 7

☐ 8

☐ 9

☐ 10

☐ 11

☐ 12

☐ 13

☐ 14

☐ Other: _____

6. Rate the difficulty of the task. *

Mark only one oval.

	1	2	3	4	5	
Easy	○	○	○	○	○	Hard

Statements

Text generation technologies have reached a level where they can replicate human speech with impressive accuracy, capturing nuances such as intonation and emotion. This experiment seeks to explore your ability to recognise AI-generated statements and considers the implications for authenticity and trust in a situation where it matters the most.

For the next five questions, please choose one option that you perceive as real news.

7.   1 *

Mark only one oval.

( ) To our friends and allies in the West, I say this: Ukraine stands as a bulwark against the forces of autocracy and tyranny. We are the frontline in the struggle for democracy and human rights. And we need your support now more than ever.

( ) And I am appealing to the leaders of the world who are still aside from the global efforts of the Global Peace Summit – to President Biden, the leader of the United States, and to President Xi, the leader of China. We do not want the UN Charter to be burnt down just like these books.

( ) Other: _____

8.   2 *

Mark only one oval.

( ) We call upon the international community to stand with Ukraine in our fight against Russian aggression. We need more than just words of condemnation. We need concrete action to hold the Kremlin accountable for its crimes and to support Ukraine in our quest for freedom and justice.

( ) Ukrainians are holding the frontline on their own, receiving military assistance. But now the assistance is still very limited, we're still waiting for new support packages from the United States. American support has been in question for too long. Everything that is questioned for the defense of freedom is a precise answer for Putin, he is tempted to act when the West slows down.

( ) Other: _____

9.   3 *

Mark only one oval.

⬭ The Russian war system, everyone involved in this aggression – all of them must truly feel tha they will not get away with this aggression. Evil must lose. And it will lose. The air defense system available in the world cannot just gather dust somewhere in depots when they can save thousand: of lives from Russian terror.

⬭ To our allies in the West, the time for words has passed. We need your full and unequivocal support in our fight against this monstrous regime. We need more weapons, more sanctions, and more international pressure to suffocate their war machine. Stand with us, or be damned for your inaction.

⬭ Other: _____

10.   4 *

Mark only one oval.

⬭ Today, we have put forward another concrete, genuine peace proposal. If Kyiv and Western capitals reject it as they have in the past, they will bear political and moral responsibility for the continuation of the bloodshed.

⬭ Russia is dedicated to resolving conflicts through dialogue and cooperation. We are not engaged in any battles, for our focus is on building a harmonious future for all, where every natio can thrive in tranquility.

⬭ Other: _____

11.   5 *

Mark only one oval.

◯ Today, I reaffirm our unwavering commitment to peace amidst the Ukraine-Russia conflict. The United States stands ready to support diplomatic solutions and peaceful resolutions. Our goal is a world where nations coexist in harmony, free from the shadows of war.

◯ The agreement that President and I just signed also lays out our shared vision for a just peace, a peace rooted in the U.N. Charter and the principles of sovereignty and territorial integrity, a peace with a broad base of support around the world that holds Russia accountable for the damage it has done in this war.

◯ Other: _____

12.   Rate the difficulty of the task. *

Mark only one oval.

	1	2	3	4	5	
Easy	◯	◯	◯	◯	◯	Hard

Recordings

Significant strides in generating audio, including music and environmental sounds are on the go. This experiment aims to examine how well participants can identify AI-generated audio, addressing the challenges of maintaining transparency and realism in a world where voice cloning can be done so rapidly.

Compare the voices of political leaders, please choose one option that you perceive as real.

13. 1 *

Mark only one oval.

◯ https://drive.google.com/file/d/16zWF1SyF16EgRK-09fWTHXx-KhYpwnnR/view?usp=share_link

◯ https://drive.google.com/file/d/17HxwMHjGT6LMsGH-pInWkN3jBVAmtzDw/view?usp=share_link

◯ Other: _____

14. 2 *

Mark only one oval.

◯ https://drive.google.com/file/d/1NXRVnt_HRiRV-e25_-hCgG2MkHwyJVBU/view?usp=sharir

◯ https://drive.google.com/file/d/1EGxwrIDHS1TgxMtKzxJNI6rYmUNUPZLp/view?usp=share_link

◯ Other: _____

15. 3 *

Mark only one oval.

◯ https://drive.google.com/file/d/11hpLYw98Tze6eJbNdzhnc4aIhdcZexNE/view?usp=share_link

◯ https://drive.google.com/file/d/1Clm4v_2CgyGre7Resly_70SBWxRmWSk6/view?usp=share_link

◯ Other: _____

16.　　Rate the difficulty of the task. *

Mark only one oval.

	1	2	3	4	5	
Easy	◯	◯	◯	◯	◯	Hard

Short Clips

The field of video generation has advanced rapidly, with technologies like Sora and Stable diffusion capable of creating realistic animations, deepfakes, and synthesised footage that can be difficult to distinguish from real video. This experiment will explore your ability to rate AI-generated videos on a scale of being fabricated, examining the potential risks of misleading visual content.

On a scale of 1 to 5, how unsettling or fake is the clip.

1

http://youtube.com/watch?v=A1STe2I17dE

17.　　1 *

Mark only one oval.

	1	2	3	4	5	
Real	◯	◯	◯	◯	◯	Fake

2

http://youtube.com/watch?v=pIEknd4T8Js

18.   2 *

Mark only one oval.

	1	2	3	4	5	
Real	◯	◯	◯	◯	◯	Fake

3

http://youtube.com/watch?v=67pNyhpu0TA

19.   3 *

Mark only one oval.

	1	2	3	4	5	
Real	◯	◯	◯	◯	◯	Fake

4

http://youtube.com/watch?v=OzLyxASKSRE

20. 4 *

Mark only one oval.

	1	2	3	4	5	
Real	○	○	○	○	○	Fake

21. Rate the difficulty of the task. *

Mark only one oval.

	1	2	3	4	5	
Easy	○	○	○	○	○	Hard

Thank you

Your contribution is highly valued and will significantly aid in advancing our understanding of human interaction with generative AI technologies.

22. Comments

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