



Lesson 8

AI Generated Images and Videos

Preparation time: 30'

Teaching time: 1 x 60'

Abstract

This lesson explores the growing prevalence of artificial images and videos, focusing on how they are created, the impact they have in our society, and strategies for detecting AI generated content. Students will examine well-known instances of AI-generated media, discover techniques for debunking such content, and discuss ethical and moral implications. The goal of this lesson is to strengthen students' media literacy and critical thinking skills in the AI era.

Online educational resources

- Lesson on *AI Generated Images and Videos* from the Sorting Facts from Fiction online Moodle course
- Quiz covering various aspects of *AI-generated content* from the Sorting Facts from Fiction online Moodle course
- Online sources for verification such as: [TinEye](#), [Google Reverse Image Search](#), [FotoForensics](#), [InVID Verification Plugin](#), [Sensity](#).

Keywords

AI-Generated Media, Deepfake, Media Literacy, Critical Thinking, Ethical AI

Lesson aim

The aim of this session is to provide students with a comprehensive lesson in understanding AI-generated images and videos, how they are created, and the societal implications. Its purpose is to enhance participants' critical thinking and media literacy skills by teaching them how to detect AI media, assess its authenticity using a variety of tools and methods, and consider the ethical implications of its use. The understanding of AI technology is essential for navigating a digital world increasingly influenced by it, and this lesson helps to enable informed and responsible interactions with such media material.

Lesson outcome

Students will learn how AI-generated media is produced and consumed, as well as how to recognize and verify artificial content through critical analysis and digital tools. They will consider some ethical concerns such as misinformation and privacy when it comes to using AI, apply the newly learnt skills to assess authenticity, and will engage in informed discussions about the AI-generated media impacts today's society.

Lesson implementation process

min. 1 - 5: Warming Up

- Engaging participants and introducing the topic by asking general questions regarding the topic
Example: An interactive poll on Mentimeter: "Have you encountered an AI-generated image or video? If yes, where?"
- Display examples of such generated media (deepfake videos, AI-generated art)
- Introduce the topic and outline the lesson objectives

min. 6 - 20 : Collaborative Learning

- Explain Discussion: Notable cases of AI-generated media:
 - Tom Cruise DeepFake TikToks
 - AI-generated artwork winning competitions
 - Fake Kamala Harris campaign video
- Describe the common tools and technologies used in AI-generated content, such as Deepfake models and DALL-E 2.
- Lead conversations in small groups about how these technologies affect society (misinformation, creative potential, copyright issues).

min. 21 - 50: Practical Application

- Practice identifying AI-generated content:
 - Compare authentic and AI-generated media.
 - Analyse fake videos that exhibit irregularities (in lighting, symmetry, and metadata).
- Debate ethical dilemmas:
 - "Should AI-generated images be labelled to distinguish them from authentic ones?"
 - "Does AI-generated art diminish the value of human creativity?"
- Students practice online tools (e.g., TinEye, FotoForensics) for verifying images and videos.
- Run a Kahoot quiz focusing on ethical issues and the main facets of AI-generated media detection.

min. 51 - 60: Conclusion

- Recap the key points: Tools and methods; Ethical considerations
- Encourage students to keep practicing media verification using tools
- Reflective questions with an emphasis on what they should remember from this lesson like: *How can these skills help you in daily life? How do you intend to use AI media?*

Materials / Tools

Video projector; laptop/desktop; Internet connection; Examples of AI-generated images and videos; access to verification tools (e.g., TinEye, InVID); access to Moodle; PowerPoint/Prezi presentation which is enriched with visual materials (images and video clips) and research based factual information.