

# **The Imitation Game**

**Lane Schwartz, Associate Professor of Computer Science**

## **COMPUTING MACHINERY AND INTELLIGENCE**

**By A. M. Turing**

### **1. The Imitation Game**

I propose to consider the question, "Can machines think?" This should begin with definitions of the meaning of the terms "machine" and "think." The definitions might be framed so as to reflect so far as possible the normal use of the words, but this attitude is dangerous, If the meaning of the words "machine" and "think" are to be found by examining how they are commonly used it is difficult to escape the conclusion that the meaning and the answer to the question, "Can machines think?" is to be sought in a statistical survey such as a Gallup poll. But this is absurd. Instead of attempting such a definition I shall replace the question by another, which is closely related to it and is expressed in relatively unambiguous words.

# Questions not to ask

A. M. Turing (1950) *Computing Machinery and Intelligence*. *Mind* 49: 433-460.

---

## COMPUTING MACHINERY AND INTELLIGENCE

By A. M. Turing

### 1. The Imitation Game

I propose to consider the question, "Can machines think?" This should begin with definitions of the meaning of the terms "machine" and "think." The definitions might be framed so as to reflect so far as possible the normal use of the words, but this attitude is dangerous. If the meaning of the words "machine" and "think" are to be found by examining how they are commonly used it is difficult to escape the conclusion that the meaning and the answer to the question, "Can machines think?" is to be sought in a statistical survey such as a Gallup poll. But this is absurd. Instead of attempting such a definition I shall replace the question by another, which is closely related to it and is expressed in relatively unambiguous words.

# Questions not to ask

- Can ChatGPT think?
- Are my students using ChatGPT?
- How can I detect AI use by my students?



# Questions not to ask

- Can ChatGPT think?
- Are my students using ChatGPT?
- How can I detect AI use by my students?



# Questions not to ask

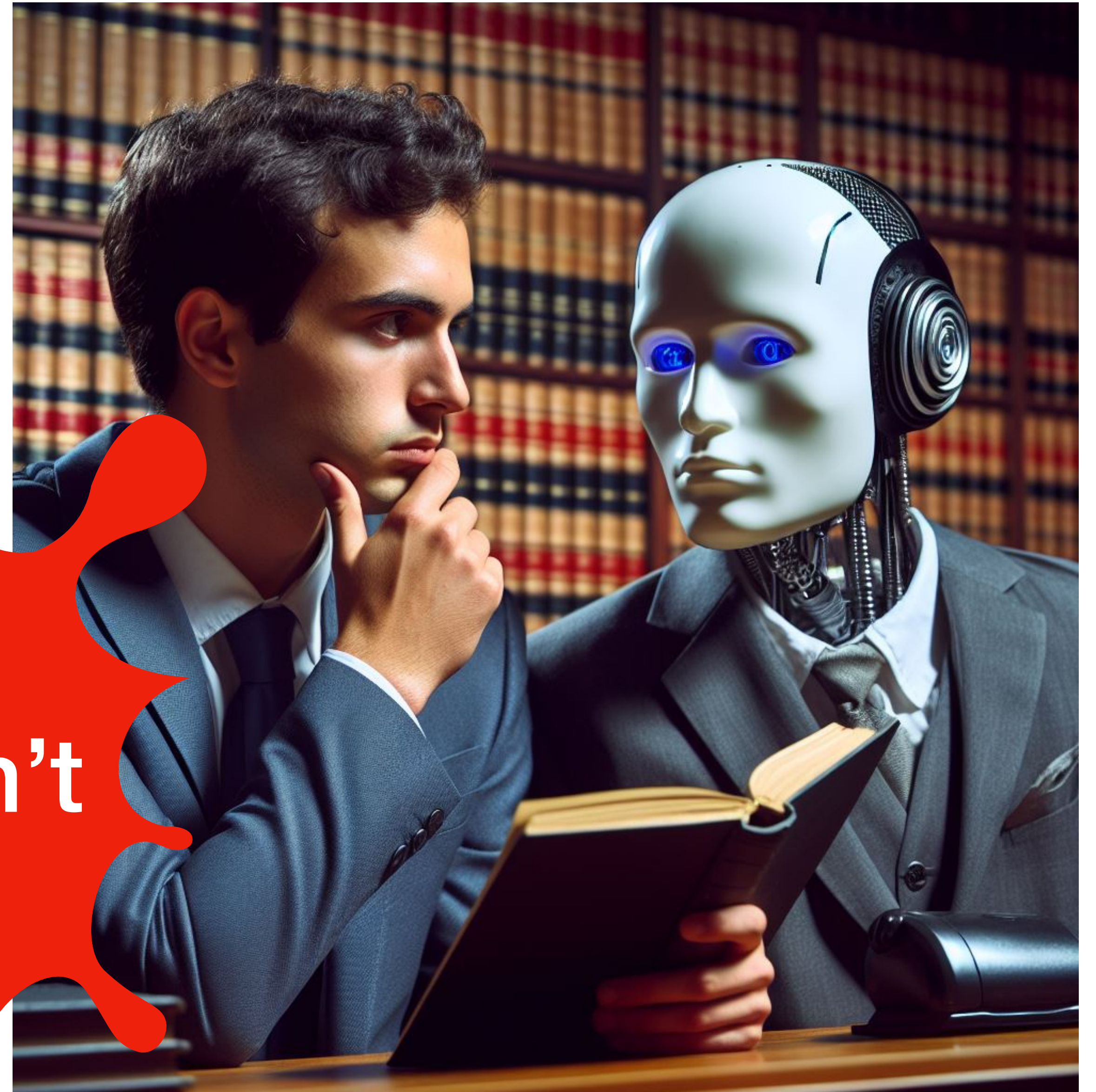
- Can ChatGPT think?
- Are my students using ChatGPT?
- How can I detect AI use by my students?



# Questions not to ask

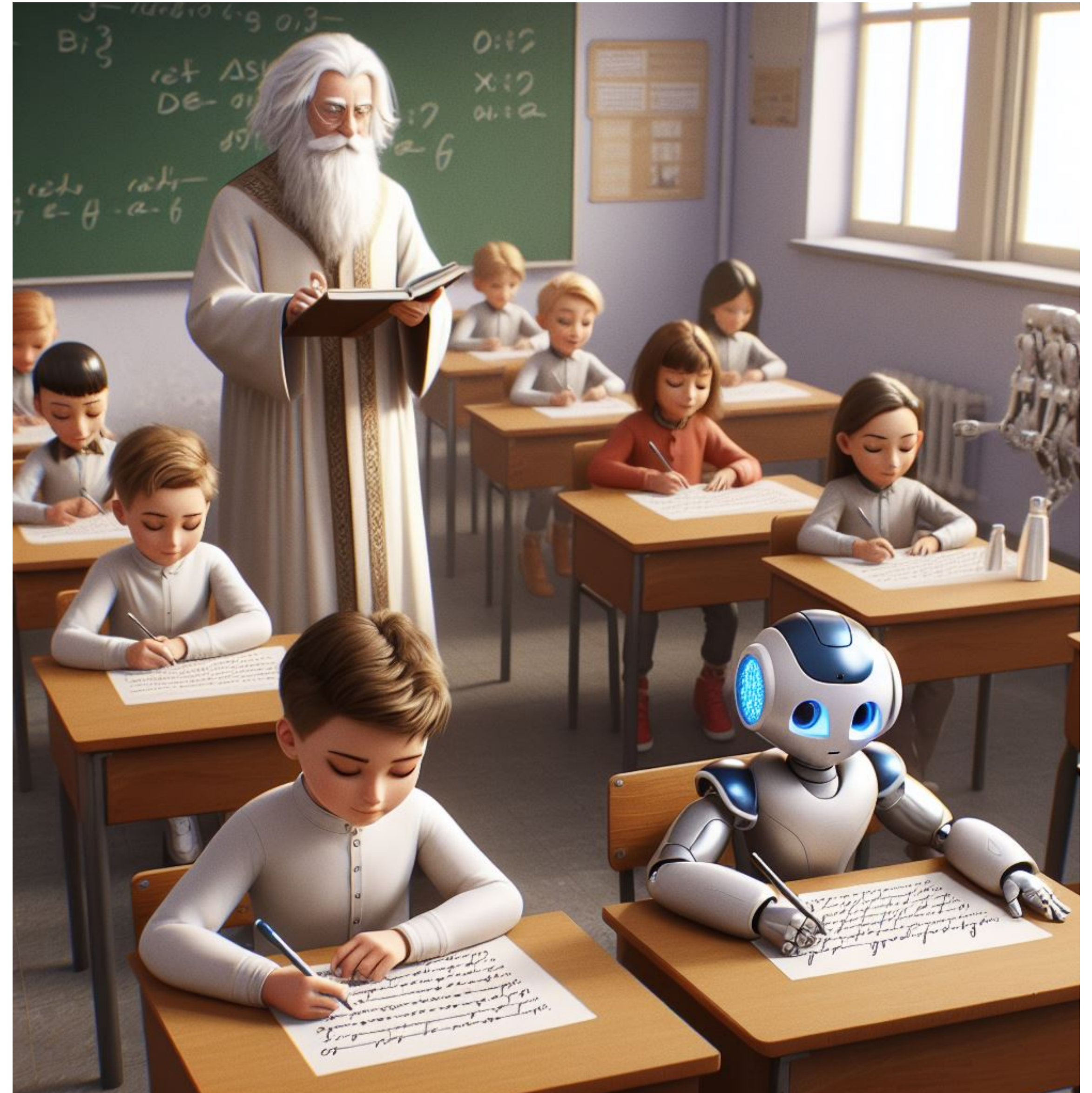
- Can ChatGPT think?
- Are my students using ChatGPT?
- How can I detect AI use students?

**You can't**



# Better questions

- Are my students achieving the learning goals for my class?
- How can I structure my assignments and assessments knowing that many students **will** use AI?





# **The Socio-Technological Nexus: An Analysis of the Introduction of Fire for Cooking in 500,000 BCE**

**Prometheus**  
Olympus  
prometheus@olympus

## **Abstract**

This article explores the ethical dimensions of cooking with fire in the Paleolithic era through various ethical frameworks. From deontological considerations of duty and fairness to virtue ethics emphasizing wisdom and compassion, communitarian perspectives on shared responsibilities, and utilitarian analyses of overall well-being, we delve into responsibility ethics, feminist viewpoints challenging gender norms, and the capability approach focusing on human flourishing. Each ethical lens illuminates a unique facet of the transformative power of fire, offering insights into the complex interplay of responsibilities, virtues, communal dynamics, utilitarian considerations, and capabilities that shape the ethical landscape of early human communities. As we navigate the Promethean flame, these diverse ethical perspectives contribute to a holistic understanding of the ethical implications, guiding our exploration of the dawn of human civilization.

utilitarian considerations, responsibilities, feminist principles, and capabilities that shape the ethical landscape of early human communities. Together, these ethical perspectives offer a nuanced understanding of the ethical implications of cooking with fire, providing insight into the foundational principles that guide the dawn of human civilization.

## **2 Deontological Perspectives on Cooking with Fire**

In examining the ethical implications of cooking with fire through a deontological lens, we turn our attention to the inherent moral principles that guide human action. Deontology emphasizes the importance of adhering to certain duties and moral rules, irrespective of the consequences. Let us explore how this ethical framework applies to the utilization of fire for culinary purposes in the Paleolithic era.

# Formative assessments

- Writing a rubric
- Using ChatGPT to write a paper
- Group assessment of ChatGPT-generated papers

## The Socio-Technological Nexus: An Analysis of the Introduction of Fire for Cooking in 500,000 BCE

Prometheus  
Olympus  
prometheus@olympus

### Abstract

This article explores the ethical dimensions of cooking with fire in the Paleolithic era through various ethical frameworks. From deontological considerations of duty and fairness to virtue ethics emphasizing wisdom and compassion, communitarian perspectives on shared responsibilities, and utilitarian analyses of overall well-being, we delve into responsibility ethics, feminist viewpoints challenging gender norms, and the capability approach focusing on human flourishing. Each ethical lens illuminates a unique facet of the transformative power of fire, offering insights into the complex interplay of responsibilities, virtues, communal dynamics, utilitarian considerations, and capabilities that shape the ethical landscape of early human communities. As we navigate the Promethean flame, these diverse ethical perspectives contribute to a holistic understanding of the ethical implications, guiding our exploration of the dawn of human civilization.

### 1 Introduction: Unveiling the Ethical Flame

The discovery of fire and its application to cooking mark a pivotal moment in the evolution of early human societies. In exploring the ethical dimensions of cooking with fire in the Paleolithic era, we embark on a journey that transcends mere culinary innovation. From deontological perspectives, virtue ethics, communitarian viewpoints, utilitarian analyses, and responsibility ethics to feminist considerations and the capability approach, we delve into diverse ethical frameworks to unravel the intricate tapestry woven by the Promethean flame.

This exploration goes beyond the mere act of cooking — it scrutinizes the responsibilities, virtues, and communal dynamics that arise with the manipulation of fire. As we examine the transformative power of this technology through various ethical lenses, we seek to illuminate the complex interplay of duties, virtues, communal values,

utilitarian considerations, responsibilities, feminist principles, and capabilities that shape the ethical landscape of early human communities. Together, these ethical perspectives offer a nuanced understanding of the ethical implications of cooking with fire, providing insight into the foundational principles that guide the dawn of human civilization.

### 2 Deontological Perspectives on Cooking with Fire

In examining the ethical implications of cooking with fire through a deontological lens, we turn our attention to the inherent moral principles that guide human action. Deontology emphasizes the importance of adhering to certain duties and moral rules, irrespective of the consequences. Let us explore how this ethical framework applies to the utilization of fire for culinary purposes in the Paleolithic era.

#### 2.1 Duty to Sustainable Resource Use

Deontological ethics dictate that individuals have a duty to act in a way that respects the intrinsic value of the environment. The discovery of fire brings forth a moral obligation to exercise stewardship over the natural world. As early humans harness the power of flames for cooking, a deontological perspective would advocate for a careful consideration of the ecological consequences. Are we, as moral agents, fulfilling our duty to preserve the balance of nature and ensure the sustainability of resources for future generations?

#### 2.2 Respect for Communal Well-being

Cooking with fire has undeniably altered the social fabric of early human communities. Deontology directs our attention to the moral duty to promote the well-being of others. The communal act of sharing cooked meals around the hearth underscores the importance of fostering a sense of unity and cooperation. From a deontological standpoint, the ethical