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## How good AI detectors are the secondary school students in the field of science?

*Monday 30 June 2025 16:30 (1 hour)*

Artificial intelligence, including large language models (LLMs), is transforming education and daily life. Many online texts are AI-generated without public awareness, and students increasingly use tools like ChatGPT. Our study explored whether 372 high school students could identify if a scientific text was AI- or human-written and examined traits aiding recognition. Results showed students struggled but performed slightly above chance. Factors like gender, prior knowledge, language proficiency, or science skills didn't improve accuracy. The only positive correlation was familiarity with ChatGPT's language. This highlights the need to educate students on recognizing AI-generated content.

### Education level

Age 15-18 (Secondary education)

### Physics topic

Other

### Research focus

Artificial Intelligence

### Research method

Analytic Physics Education Research (Quantitative research)

### Organizing preference criteria

Research focus

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