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Physics learning promoting culture
and addressing societal issues

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Type: **Poster**

Is the Revolutionary ChatGPT an Aristotelian Thinker?

Thursday 6 July 2023 16:40 (20 minutes)

ChatGPT, a recently released revolutionary AI chatbot based on deep learning and artificial neural networks, enables highly proficient human-like conversations, translations, and reasoning. Our ongoing research aims to investigate ChatGPT's potential in physics education, including its capabilities, limitations, and impact on students in real conditions. Employing an exploratory sequential mixed-methods design, our preliminary results from the first phase reveal, for example, that while GPT-3.5 acts as an Aristotelian thinker with respect to FCI, GPT-4 achieves a Newtonian thinking level. The study will also present ChatGPT's performance in various physics tasks and its implications for enhancing students' physics understanding and engagement.

How would you like to present your contribution?

Live in Košice (time slot to be allotted based on the programme)

Target education level (primary)

Pre-service teacher education

Target education level (secondary, optional)

Higher-secondary education

Author: Mr BOROVSKEÝ, Dominik (P. J. Safarik University)

Co-author: Prof. HANČ, Jozef (P. J. Safarik University)

Presenter: Mr BOROVSKEÝ, Dominik (P. J. Safarik University)

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