



Contribution ID: 146

Type: **Poster**

## Adaptive learning in mechanics using artificial intelligence

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

In education, the effectiveness of teaching plays an important role as well as the assessment of the learning process. Teachers are often hopelessly unaware of their students' prior knowledge and skills, and thus of the ideal developmental tasks to solve individually in a given lesson. In this research topic, we aim to create a computer program that can learn which practice task a learner should do to make the most optimal progress based on his or her knowledge and skills.

### 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

**Author:** BURKOVICS, Márton

**Co-authors:** JENEI, Péter (Eötvös Loránd University); KOSZTYÓ, Péter (Eötvös Loránd University)

**Presenter:** BURKOVICS, Márton

**Session Classification:** Poster session

**Track Classification:** Artificial Intelligence (AI)