



Contribution ID: 274

Type: **Oral presentations**

Analysis of students' eye movements during solving multiple-choice scientific literacy test

Thursday, 29 August 2024 11:10 (20 minutes)

Our aim is to show the possibility of using eye tracking to assess some aspects of the validity of multiple-choice tests. Specifically, we focus on nine tasks with textual and graphical representations from the TOSLS science literacy test. Twenty-three high and undergraduate school students participated in the study. We can assess validity based on quantitative analysis (e.g., the time students take to solve a task, the time they spend on an alternative or a stem, etc.). We can also assess validity based on qualitative analysis of gaze plots, for example we can identify distracting graphical elements, difficult or illegible words.

How would you like to present your contribution?

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

Target education level

Secondary

Category

Formal Education

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Session Classification: Oral presentations

Track Classification: Evaluation and Assessment of Student Learning and Development