

## **Describing human performance with strategy features in a special divided attention task**

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In this work we investigated the performance of ten subjects in a complex divided attention task. We implemented and conducted experiments with a simplified version of the popular Train of Thought game of the online cognitive skill training platform called Lumosity [1]. After analyzing the experimental data, we identified strategy features that describe human performance, i.e. highlight the individual differences and predict achievement in a regression analysis using generalized estimating equations [2]. Our results support the assumption that describing and analyzing strategies is important, because they can substantially influence human performance in complex tasks, above and beyond personality and ability constructs [3]. The detailed results of this study have been published at the PLOS ONE Open Access Journal [4].

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The research has been supported by the European Union, co-financed by the European Social Fund (EFOP-3.6.2-16-2017-00013).