

Artificial Intelligence, a promising agent of mathematical education

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Abstract:

As more and more of a student's education is experienced through a computer, data on their educational progress can be collected, leading to more personalized learning plans while assisting the teacher in identifying problem areas for students. [Loeffler 2018]

Inspired by the Loeffler's claim I am interested in the feasibility of a project focused on the application of AI to support and streamline the school education of pupils with specific needs, from the pupils with minor brain disfunction to the gifted pupils, to focus on their individual skills and demands.

Theoretical bases of AI implementation in mathematics education are stated in [Balacheff 1993]. I would like to find out whether all building blocks of this implementation, whether of a technical, software or didactic nature, are sufficiently mature for actual use. If so, I offer to collaborate with any other interested parties in the development and mainly the testing of such solutions.

References:

[Balacheff 1993] Nicolas Balacheff. Artificial Intelligence and Mathematics Education: Expectations and Questions. 14th Biennial of the Australian Association of Mathematics Teachers, 1993, Perth, Australia. pp. 1-24.

[Loeffler 2018] John Loeffler. Personalized Learning: Artificial Intelligence and Education the Future. Interesting Engineering [online], December 24, 2018. Available at <https://interestingengineering.com/personalized-learning-artificial-intelligence-and-education-in-the-future>