

# Recent advances in machine learning for mathematical reasoning

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## **Abstract:**

This talk addresses artificial intelligence techniques for learner modeling in the context of mathematics education. In particular, we focus on machine learning (ML) techniques, which have recently achieved several breakthroughs in the automated resolution of complex tasks. We review several papers that advance the state of the art in ML for mathematical reasoning, and we draw connections to automated reasoning and more fundamental research performed in the field of abstract reasoning.