

Teaser



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Automata Tutor v3

Automata Tutor v3

DFA

NFA

Regular Expressions

Pumping Lemma

Pushdown Automata

Context-free Grammars

Turing Machines

Automatic grading
and
feedback

Automata Tutor v3

Loris D'Antoni¹, Martin Helfrich², Jan Kretínský², Emanuel Ramneantu², Maximilian Weininger²

¹University of Wisconsin-Madison, ²Technical University of Munich



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Talk

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Automata Tutor - Numbers

- More than 30 universities across 5 continents
- More than 10,000 students
- More than 350,000 solution attempts

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This is how the construction of finite automata that recognize regular languages should be taught in a **modern way!**

I wish I had similar tools **for all the topics I need to cover in that course.**

-Ode to Automata Tutor, Luca Aceto 2015

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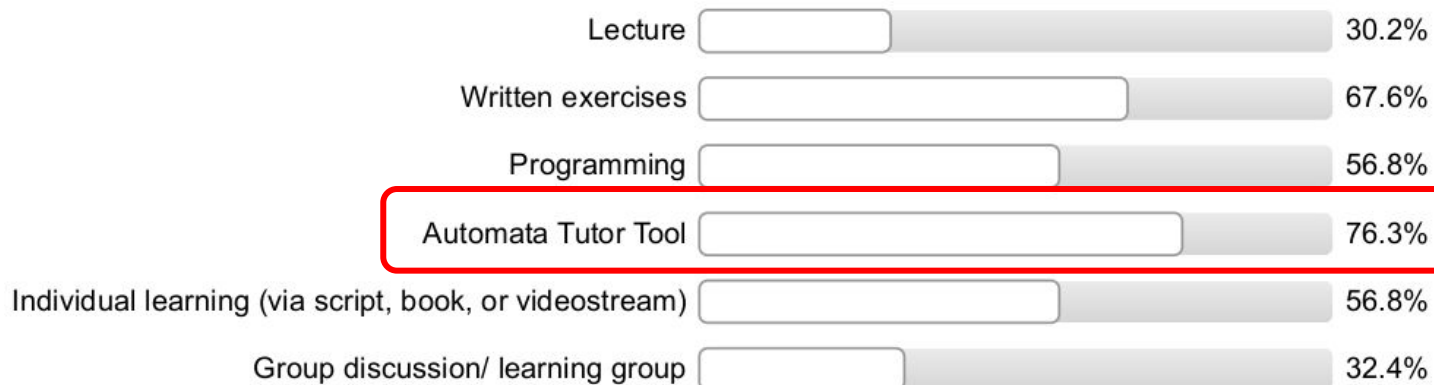
Automatic grading
and
feedback

**Automatic
problem
generation**

Evaluation

- More than 10 universities this semester
- About 1,000 students at TUM in both 2019 and 2020.

What are your preferred means of learning?
(Multiple answers possible.)



n=139



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