Executing Formal Specifications by Enumeration with Bounds Learning

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Formal Software Specification

Task: write a sorting algorithm

 \ldots more or less every student succeeds in 1/2 hour

Task: write an input/output specification of sorting in predicate logic ... no student

Reason?

Programming: trial and error

Formal specification:

no computer support for generating example executions

Conclusion?

specification	informal	executable
implementation	programming language	executable

But: I am not willing to sacrifice logic!

Open Position: Tenure-Track in Al



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