



**FACULTY
OF INFORMATION
TECHNOLOGY
CTU IN PRAGUE**

Assignment of bachelor's thesis

Title: Finite automata editor on touch devices
Student: Marek Fořt
Supervisor: Ing. Jan Trávníček, Ph.D.
Study program: Informatics
Branch / specialization: Computer Science
Department: Department of Theoretical Computer Science
Validity: until the end of summer semester 2021/2022

Instructions

Study the web interface of the algorithms library[1] and the algorithms library itself[2] with focus on design and drawing of finite automata. Study the possibilities of strokes detection on touch devices. Study the approaches of shapes detection with focus on those used in the automata drawing on iOS platform.

Implement a prototype finite automata editor capable of finite automata recognition from strokes. Perform usability tests of the prototype.

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[1] Michael, Vrána. Knihovna algoritmů ALT-webové rozhraní. BS thesis. České vysoké učení technické v Praze. Vypočetní a informační centrum., 2020.[2] Algorithms Library Toolkit: <https://alt.fit.cvut.cz>.