ČESKÉ VYSOKÉ UČENÍ TECHNICKÉ V PRAZE

REVIEWER'S OPINION OF FINAL THESIS

I. IDENTIFICATION DATA

Thesis name:	**Transforming XML documents based on user-defined rules**
Author's name:	**Jakub Pavlát**
Type of thesis :	bachelor
Faculty/Institute:	Faculty of Electrical Engineering (FEE)
Department:	Department of Computer Science
Thesis reviewer:	Ing. Michal Valenta, Ph.D.
Reviewer's department:	Department of Software Engineering, Faculty of Information Technology

II. EVALUATION OF INDIVIDUAL CRITERIA

Assignment — challenging

Evaluation of thesis difficulty of assignment.

The work is related to ongoing research. Strict formalization and high level of abstraction are required. It is not common in usual bachelor thesis.

Satisfaction of assignment — fulfilled with minor objecti

Assess that handed thesis meets assignment. Present points of assignment that fell short or were extended. Try to assess importance, impact or cause of each shortcoming.

It seems the proposed method (algorithm) is working, there is also a sketch of a proof in the thesis (end of section 3.2.1). On the other hand, it is required to test the solution on a real data (in formal thesis specification) which is not included in the thesis.

Method of conception — correct

Assess that student has chosen correct approach or solution methods.

I have no objections. The methods and solutions were part of thesis specification and they were used correctly.

Technical level — D - satisfacto

Assess level of thesis specialty, use of knowledge gained by study and by expert literature, use of sources and data gained by experience.

Thesis is correct from the point of view of fulfillment of requirements. While formal analysis, algorithm and implementation are OK, I have objections from point of view of software engineering - mainly design, documentation and validation or testing. It was hard for me to grasp the context of the thesis and understand design decisions discussed in thesis. I believe using appropriate kind of diagrams (for example UML) may help a lot. Similarly, XML scheme may be used for discussion of particular pieces of XML language description.
The text of the thesis is really short even I have no idea if there are some page limits specified.
I missing any description of testing of proposed solution.

Formal and language level, scope of thesis — B - very good

Assess correctness of usage of formal notation. Assess typographical and language arrangement of thesis.

Thesis is written in English. I did not notice any language or typography inconsistence which disturb me during the reading.

Selection of sources, citation correctness — C - good.

Present your opinion to student's activity when obtaining and using study materials for thesis creation. Characterize selection of sources. Assess that student used all relevant sources. Verify that all used elements are correctly distinguished from own results and thoughts. Assess that citation ethics has not been breached and that all bibliographic citations are complete and

in accordance with citation convention and standards.
Only 8, but relevant and web based sources are used. Citations are correctly used. Regarding to the topic, there may be more sources in theoretical part.

Additional commentary and evaluation *Present your opinion to achieved primary goals of thesis, e.g. level of theoretical results, level and functionality of technical or software conception, publication performance, experimental dexterity etc.*
In my opinion the result of thesis is practically applicable in research and following publications.

III. OVERALL EVALUATION, QUESTIONS FOR DEFENSE, CLASSIFICATION SUGGESTION

Summarize thesis aspects that swayed your final evaluation. Please present apt questions which student should answer during defense.

Thesis topic was challenging and related to ongoing research. Student provided well done analysis, algorithm design and implementation. Documentation and testing of the work is little bit worse.

Questions:

1. Refer about testing of your method. On which data it was tested and how were evaluated results?
2. Is it useful to use a formalism like XML Schema or similar to describe better the formats?

I evaluate handed thesis with classification grade C - good.

Date: 06.06.17

Signature: