**Supervisor's statement of a final thesis**

**Student:**  Bc. Adam Prášil  
**Supervisor:**  Ing. Tomáš Zahradnický, Ph.D.  
**Thesis title:**  Website user tracking  
**Branch of the study:**  Computer Security  

**Date:** 26. 1. 2016

<table>
<thead>
<tr>
<th>Evaluation criterion:</th>
<th>The evaluation scale: 1 to 5.</th>
</tr>
</thead>
</table>
| **1. Difficulty and other comments on the assignment** | 1 = extremely challenging assignment,  
2 = rather difficult assignment,  
3 = assignment of average difficulty,  
4 = easier, but still sufficient assignment,  
5 = insufficient assignment |

**Criteria description:**  Characterize this final thesis in detail and its relationships to previous or current projects. Comment what is difficult about this thesis (in case of a more difficult thesis, you may overlook some shortcomings that you would not in case of an easy assignment, and on the contrary, with an easy assignment those shortcomings should be evaluated more strictly.)

**Comments:**  The thesis required the student become familiar with many tracking and fingerprinting methods and implement them on his own. For this reason I find the assignment a rather difficult assignment.

<table>
<thead>
<tr>
<th>Evaluation criterion:</th>
<th>The evaluation scale: 1 to 4.</th>
</tr>
</thead>
</table>
| **2. Fulfilment of the assignment** | 1 = assignment fulfilled,  
2 = assignment fulfilled with minor objections,  
3 = assignment fulfilled with major objections,  
4 = assignment not fulfilled |

**Criteria description:**  Assess whether the thesis meets the assignment statement. In Comments indicate parts of the assignment that have not been fulfilled, completely or partially, or extensions of the thesis beyond the original assignment. If the assignment was not completely fulfilled, try to assess the importance, impact, and possibly also the reason of the insufficiencies.

**Comments:**  The student described and implemented many tracking and fingerprinting methods, compared them together, and evaluated user's vulnerability to each method. The assignment has been fulfilled in full.

<table>
<thead>
<tr>
<th>Evaluation criterion:</th>
<th>The evaluation scale: 1 to 4.</th>
</tr>
</thead>
</table>
| **3. Size of the main written part** | 1 = meets the criteria,  
2 = meets the criteria with minor objections,  
3 = meets the criteria with major objections,  
4 = does not meet the criteria |

**Criteria description:**  Evaluate the adequacy of the extent of the final thesis, considering its content and the size of the written part, i.e. that all parts of the thesis are rich on information and the text does not contain unnecessary parts.

**Comments:**  The thesis exceeds the criteria for a diploma thesis.

<table>
<thead>
<tr>
<th>Evaluation criterion:</th>
<th>The evaluation scale: 0 to 100 points (grade A to F).</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>4. Factual and logical level of the thesis</strong></td>
<td>100 (A)</td>
</tr>
</tbody>
</table>

**Criteria description:**  Assess whether the thesis is correct as to the facts or if there are factual errors and inaccuracies. Evaluate further the logical structure of the thesis, links among the chapters, and the comprehensibility of the text for a reader.

**Comments:**  The thesis is divided into 5 chapters Introduction, State-of-the-Art, Analysis, Implementation and Testing, and Conclusion. These chapters contains all information required. I find neither logical nor factual flaws in the thesis.

<table>
<thead>
<tr>
<th>Evaluation criterion:</th>
<th>The evaluation scale: 0 to 100 points (grade A to F).</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>5. Formal level of the thesis</strong></td>
<td>100 (A)</td>
</tr>
</tbody>
</table>

**Criteria description:**  Assess the correctness of formalisms used in the thesis, the typographical and linguistic aspect s, see Dean's Directive No. 12/2014, Article 3.

**Comments:**  The formal level of the thesis is excellent. I find no language or typographic problems.

<table>
<thead>
<tr>
<th>Evaluation criterion:</th>
<th>The evaluation scale: 0 to 100 points (grade A to F).</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>6. Bibliography</strong></td>
<td>100 (A)</td>
</tr>
</tbody>
</table>

**Criteria description:**  Evaluate the student's activity in acquisition and use of studying materials in his thesis. Characterize the choice of the sources. Discuss whether the student used all relevant sources, or whether he tried to solve problems that were already solved. Verify that all elements taken from other sources are properly differentiated from his own results and contributions. Comment if there was a possible violation of the citation ethics and if the bibliographical references are complete and in compliance with citation standards.
**Comments:**

The bibliography of the thesis is astounding and reflects the breadth of the topic the student had to absorb.

---

### 7. Evaluation of results, publication outputs and awards

**Evaluation criterion:** The evaluation scale: 0 to 100 points (grade A to F).

**Comments:**

The thesis compares various tracking and fingerprinting results and evaluates user vulnerability. As discovered, the user can be fingerprinted and identified despite using the anonymous browsing mode.

---

### 8. Applicability of the results

**Criteria description:**

Indicate the potential of using the results of the thesis in practice.

**Comments:**

Results of the thesis can be used as a warning finger for browser designers, privacy activists, and lawyers creating our legislation.

---

### 9. Activity and self-reliance of the student

**Evaluation criterion:** The evaluation scale: 1 to 5.

**Criteria description:**

Review student's activity while working on this final thesis, student's punctuality when meeting the deadlines and consulting continuously and also, student's preparedness for these consultations. Furthermore, review student's independency.

**Comments:**

The student regularly attended meetings with the supervisor and worked hard on the topic. This reflects the results and quality of the thesis.

---

### 10. The overall evaluation

**Evaluation criterion:** The evaluation scale: 0 to 100 points (grade A to F).

**Criteria description:** Summarize the parts of the thesis that had major impact on your evaluation. The overall evaluation does not have to be the arithmetic mean or any other formula with the values from the previous evaluation criteria 1 to 9.

**Comments:**

I find the thesis of Mr. Adam Prasil excellent, recommend it for defense and grade it with the grade A (excellent).

---

**Signature of the supervisor:**