# Review report of a final thesis

**Czech Technical University in Prague** **Faculty of Information Technology**

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| **Student:** | Pavel Goncharov |
| **Reviewer:** | Ing. Yelena Trofimova |
| **Thesis title:** | Analysis of Trust Methods in Ad-hoc and Sensor Networks |
| **Branch of the study:** | Information Technology (Bachelor) |

**Date:** 4. 6. 2015

| *Evaluation criterion:* | *The evaluation scale: 1 to 5.* |
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| **1. Difficulty and other comments on the assignment** | *1 = extremely challenging assignment,*<br>*2 = rather difficult assignment,*<br>***3 = assignment of average difficulty,***<br>*4 = easier, but still sufficient assignment,*<br>*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:*
Assignment requires good analytical skills and ability to investigate new field of study to indicate necessary software specification. The analysis made and simulator created are part of the network research group project dedicated to security of Ad-Hod networks.

| *Evaluation criterion:* | *The evaluation scale: 1 to 4.* |
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| **2. Fulfilment of the assignment** | ***1 = assignment fulfilled,***<br>*2 = assignment fulfilled with minor objections,*<br>*3 = assignment fulfilled with major objections,*<br>*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:*
Work meets all stated requirements.

| *Evaluation criterion:* | *The evaluation scale: 1 to 4.* |
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| **3. Size of the main written part** | ***1 = meets the criteria,***<br>*2 = meets the criteria with minor objections,*<br>*3 = meets the criteria with major objections,*<br>*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:*
Written part has reasonable size and content.

| *Evaluation criterion:* | *The evaluation scale: 0 to 100 points (grade A to F).* |
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| **4. Factual and logical level of the thesis** | *95 (A)* |

*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:*
Thesis text has good logical structure, cross-references between chapters and is easy to read.

| *Evaluation criterion:* | *The evaluation scale: 0 to 100 points (grade A to F).* |
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| **5. Formal level of the thesis** | *90 (A)* |

*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:*
While covering all required components from formal point of view (introduction, conclusion, list of figures and other) paper language occasionally lacks fine linguistic expression. Nevertheless student ideas are clearly delivered.

| *Evaluation criterion:* | *The evaluation scale: 0 to 100 points (grade A to F).* |
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| **6. Bibliography** | *90 (A)* |

*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:*
Student have shown to be capable of finding and analyzing relevant sources of information. It is clear from the text which notions have external origin and which are purely his own contribution.

| *Evaluation criterion:* | *The evaluation scale: 0 to 100 points (grade A to F).* |
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| **7. Evaluation of results, publication outputs and awards** | *85 (B)* |

*Criteria description:*
Comment on the achieved level of major results of the thesis and indicate whether the main results of the thesis extend published state-of-the-art results and/or bring completely new findings. Assess the quality and functionality of hardware or software solutions. Alternatively, evaluate whether the software or source code that was not created by the student himself was used in accordance with the license terms and copyright. Comment on possible publication output or awards related to the thesis.

*Comments:*
Although the major results of the thesis do not bring completely new openings, the classification made and network simulator created are of high quality and satisfy the research demand. Work would be used internally and has no scientific value.

| *Evaluation criterion:* | *No evaluation scale.* |
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| **8. Applicability of the results** | |

*Criteria description:*
Indicate the potential of using the results of the thesis in practice.

*Comments:*
Thesis results will be used for future research of network research group of our faculty.

| *Evaluation criterion:* | *No evaluation scale.* |
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| **9. Questions for the defence** | |

*Criteria description:*
Formulate any question(s) that the student should answer to the committee during the defence (use a bullet list).

*Questions:*
Considering the dynamic nature of Ad-Hoc networks, option of adding or deleting nodes during simulation process seems to be evident. As far as I understood the code structure it would not be hard to implement?

| *Evaluation criterion:* | *The evaluation scale: 0 to 100 points (grade A to F).* |
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| **10. The overall evaluation** | *89 (B)* |

*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:*
Student managed to deal with thesis assignment on a high level and meet the criteria requested. Created software is modular and easy extendable. Results of the work have practical appliance. However while having no publishable value, it deserves grade B.

Signature of the reviewer: