

I. IDENTIFICATION DATA

Thesis title:	AGENT-BASED MODELING OF ITS SYSTEMS INVEHICLE SIMULATOR
Author's name:	Jan Macek
Type of thesis :	master
Faculty/Institute:	Faculty of Transportation Sciences (FTS)
Department:	K616 – Department of Vehicle Technology
Thesis reviewer:	Josef Fulem
Reviewer's department:	BTL Medical Technologies

II. EVALUATION OF INDIVIDUAL CRITERIA

Assignment	challenging
<i>How demanding was the assigned project?</i>	
The usage of ABM approach in ITS is very applicable but also very challenging.	

Fulfilment of assignment	fulfilled
<i>How well does the thesis fulfil the assigned task? Have the primary goals been achieved? Which assigned tasks have been incompletely covered, and which parts of the thesis are overextended? Justify your answer.</i>	
All assigned tasks were completed.	

Methodology	outstanding
<i>Comment on the correctness of the approach and/or the solution methods.</i>	
The connection of the Unity framework, ABM and all the related tools looks as the excellent approach.	

Technical level	A - excellent.
<i>Is the thesis technically sound? How well did the student employ expertise in the field of his/her field of study? Does the student explain clearly what he/she has done?</i>	
The thesis looks very complete. Jan Macek shows great understanding of the topic. It demonstrated in literature research and its implementation in the developed code.	

Formal and language level, scope of thesis	B - very good.
<i>Are formalisms and notations used properly? Is the thesis organized in a logical way? Is the thesis sufficiently extensive? Is the thesis well-presented? Is the language clear and understandable? Is the English satisfactory?</i>	
The thesis is very well structured. All part are well written and understandable. There are some minor deficiencies in creating the thesis in the English language – missing articles, strange word orders, etc.	

Selection of sources, citation correctness	A - excellent.
<i>Does the thesis make adequate reference to earlier work on the topic? Was the selection of sources adequate? Is the student's original work clearly distinguished from earlier work in the field? Do the bibliographic citations meet the standards?</i>	

Additional commentary and evaluation (optional)
<i>Comment on the overall quality of the thesis, its novelty and its impact on the field, its strengths and weaknesses, the utility of the solution that is presented, the theoretical/formal level, the student's skillfulness, etc.</i>
The thesis and the provided code in Github is at very good technical level. On the other hand, it would be very beneficial to provide more detailed results from verification and validation process.



THESIS REVIEWER'S REPORT

III. OVERALL EVALUATION, QUESTIONS FOR THE PRESENTATION AND DEFENSE OF THE THESIS, SUGGESTED GRADE

Summarize your opinion on the thesis and explain your final grading. Pose questions that should be answered during the presentation and defense of the student's work.

The grade that I award for the thesis is **A - excellent**.

Date: **4.6.2023**

Signature:

A handwritten signature in blue ink, consisting of a stylized 'F' followed by a horizontal line.