

OPPONENT'S ASSESSMENT ON DIPLOMA THESIS

Student's name and surname: Lakshman Kumar Ramesh

Name of the diploma thesis: Measuring the accuracy of digitization of contactless scanners

Supervisor of the thesis: Ing. Radomír Mendřický, Ph.D.

Opponent: Ing. Martin Frkal

1. Diploma thesis evaluation

Evaluation	excellent	excellent minus	very good	very good minus	good	failed
Meeting the goal and fulfilling task of the thesis	x					
Quality of conducted survey	x					
Methodology of solutions		x				
Expert level of the thesis	x					
Merit of the thesis and its potential applicability of results		x				
Formal and graphic level of the thesis		x				
Student's personal approach	x					

Mark x in the corresponding box.

Supervisor's final evaluation is based on his/her overall subjective evaluation.

Grading is stated literally in the article no. 5, neither by a number, nor by a letter.

2. Comments and remarks on diploma thesis:

Theoretical part of this thesis is well structured, beginning with scanning principles followed by scanners distribution and it's function. Theory freely continues to practical part, especially describes calibration procedures and working principle, including data processing in SW GOM Inspect. This part is very detailed.

In the end the evaluation and comparison of measurement results are described in organized charts and tables. First compared parameter by parameter, then scanner by scanner.

In both parts there are small stylistic mistakes and in one case result does not match in graphs (graph 1 and graph 10, par. S1). Also averaging of Metra-Scan values for different resolutions is not the best way how to evaluate. However, those nonconformities does not affect the overall image of the work.

3. Questions about diploma thesis:

1) Describe MSA principle in general. Is MSA method applicable for 3D scanners?
Please describe procedure.

2) Compare the total amount of time needed for digitalization for each scanner.

4. Opponent's statement whether the diploma thesis meets the academic title requirements and whether it is recommended for defense: I recommend this work for defence

5. Opponent's grading: EXCELLENT

Date 14.06.2021, in Liberec

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Opponent's signature

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