

Master Thesis Supervisor's Expert Opinion

Student: Nigisti Araya
 Student Number: E23978
 Title of Master Thesis: Comparison of countries in Africa from the point of view of ICT utilization development
 Aim of the Thesis: The aim of the work is to compare the development of countries in Africa or a selected region of Africa using ICT utilization indicators. Spatial analysis will be a part of data analysis.
 Thesis Supervisor: Tomáš Brunclík
 Study Programme: N0688A140008 / Informatics and System Engineering
 Academic Year: 2024/2025

Difficulty of the Topic

	Excellent	Very good	Satisfactory	Unsatisfactory	Cannot be evaluated
Theoretical knowledge	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Input data and their processing	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Methods used	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Thesis Evaluation Criteria

	Excellent	Very good	Satisfactory	Unsatisfactory	Cannot be evaluated
Degree of achievement of the aim of the thesis	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Original attitude to the topic processing	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Adequacy of the methods used	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Depth of analysis (relative to topic)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Logical structure of the thesis and scope	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Working with Czech and foreign literature including citations	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Formal arrangement of the thesis (text, charts, tables)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Language level (style, grammar, terminology)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Most recently printed on December 24.07.2025 14:18:00

Applicability of the Results of the Thesis

	High	Medium	Low	Cannot be evaluated
For theory	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
For practice	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Other Comments on the Thesis

The author gathered relevant data from reliable sources and processed them using broad set of methods to satisfy the assignment tasks.

The selected methods are appropriate, and the results are in accordance with expectations, except for the result of regression analysis, where the low overall correlation might seem surprising compared to the relatively high correlations of some model variables in the intercorrelation analysis. The author offers a possible explanation, but given more time, it would be possible to deal with the causes more rigorously and probably improve the model.

Adequate attention was given to discussing the results, and policy recommendations were proposed. However, minor formal imperfections in both the text and graphics occasionally diminish the overall impression of the work. Importantly, the methodology is at times not described with sufficient clarity to allow for independent verification through replication. For instance, the description of the cluster analysis in chapter 3.4.1 indicates the use of Python, yet the procedure is not adequately detailed, and the Python source code is not included. While the literature review is comprehensive and generally well-cited, subsequent sections sometimes mention a previously cited sources without providing proper citations.

Overall, the thesis fulfills the assignment requirements, offering valuable insights into ICT development in Africa and elucidating the causes of observed differences.

Comments on the Outputs from the Theses System

The highest similarity rate with any document is about 1% and the number of similar documents is 4. The similarities are mostly in generally used terms or descriptions. The work assessed is not plagiarism.

Questions and Suggestions for Defence

Given the low overall correlation in the multiple linear regression model, what are possible causes in general and what methods could be used to identify variables causing such low correlation or improve the model?

Final Evaluation

I **recommend** the thesis for the defence.

I propose to grade this Master thesis as follows: **C**

In Pardubice 23.7.2025

Signature