

Thesis Reviewer's Report

Student: Nigisti Fitsum Araya
 Title: COMPARISON OF COUNTRIES IN AFRICA FROM THE POINT OF VIEW OF ICT UTILIZATION DEVELOPMENT
 Supervisor: Ing. Tomáš BRUNCLÍK, Ph.D.
 Reviewer: Ing. Jakub JECH, Ph.D.
 Reviewer's job title: Assistant Professors, Institute of System Engineering and Informatics, University of Pardubice

Assessment criteria

	excellent	very good	acceptable	unacceptable	N/A
Achievement of the aims of the thesis	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Use of appropriate methods	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Depth of analysis (in relation to the topic)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Structure and extent of the thesis	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Use of Czech and foreign sources (including references)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Formal aspects (text, diagrams, charts)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Quality of language (style, grammar, terminology)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Usability of the results

	high	medium	low	N/A
In theory	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
In practice	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Other comments

The aim of this thesis is to compare the development of countries in Africa or a selected region of Africa using ICT usage indicators. Data analysis also includes spatial analysis. I can state that the objective as set out in the assignment was met. The student conducted a quality literature search in the field of ICT.

The thesis is well structured with clearly defined research objectives, questions and methodology. The combination of quantitative and qualitative analysis increases the depth and credibility of the thesis. The author grouped African countries into three groups (low, medium, high ICT usage) based on multiple indicators, which allows for detailed regional comparisons. This makes for interesting study research.

However, I have a few negative comments, such as: The regression model (which is not part of my research background) lacks statistically significant results, which the author states. Although the thesis contains many graphs and tables, some visual elements lack clear labeling or interpretation.

Overall, the quality of the thesis is reduced due to typos and mixed font styles. I also recommended using a single naming system for countries in tables, graphs, maps, etc.

Since the aim of the thesis is spatial analysis, which mainly concerns GIS, the quality of the maps from a GIS perspective is very poor.

The aim of the thesis was met, but there are formal errors, but I recommend the thesis for defense.

Last date and time of printout 21.7.2025 18:03

Questions and suggestions for the defence

1. Your regression analysis revealed that none of the selected variables were statistically significant predictors of internet usage. What alternative modeling approaches or additional variables would you consider to better capture the drivers of ICT adoption?
2. Given the diversity of Africa, how did you ensure comparability across countries with varying data availability, population sizes, and political environments?

Overall evaluation

I **recommend** the thesis for defence.
The proposed grade for the thesis: C

In Pardubice on 25.7.2025

Signature