

Bachelor's Thesis Supervisor's Expert Opinion

Student: Justice Takyi
 Student Number: E200107
 Title of Bachelor's Thesis: Analysis and Comparison of Digital Societies in Selected Countries
 Aim of the Thesis: The aim of the thesis is to analyze and compare digital societies in selected countries in terms of relevant indicators.
 Thesis Supervisor: Ing. et Ing. Martin Lněnička, Ph.D.
 Study Programme: B0688A140005 Informatics and System Engineering
 Academic Year: 2022/2023

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 type="checkbox"/> | <input checked="" 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 type="checkbox"/> | <input checked="" 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 checked="" type="checkbox"/> | <input 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"/> |

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 aim of this thesis was to analyse and compare digital societies in selected countries. The student established three questions to fulfil this aim. All of them are sufficiently answered in the thesis.

The student worked independently and with a positive approach. Particular parts of the thesis have been consulted on an ongoing basis. The student followed recommendations of the supervisor.

The first chapter deals with the theoretical background and presents related definitions and components of digitalization. However, some of the components could be elaborated more in detail, such as human capital. Also, a section focusing on the digital transformation is missing, especially if the term “transformation” is crucial for digitalization as it is mentioned in the introduction and the first sentence of the section 1.2.

The second chapter is focused on characteristics and requirements as well as dimensions and indicators of digital societies. The main contribution of this chapter lies in an overview of benchmarking frameworks/reports and the dimensions/indicators used to measure the digitalization of a society.

The third chapter presents data analysis and comparison of selected countries. The student used the online Digital Economy and Society Index (DESI) simulation tool and analysed and compared four best performing countries in the context of ten indicators (sub-dimensions). Based on the findings, the student provided recommendations for other countries to improve their digital societies. These are summarized in the following chapter dealing with results and discussion.

Comments on the Outputs from the Theses System

Highest degree of compliance: 13% - because of the thesis dealing with a similar topic (digital societies), i.e., some of the theoretical background resources, especially benchmarking frameworks/reports and the DESI, used for the elaboration of the topic overlap. Similarity assessment: the thesis is not plagiarized.

Questions and Suggestions for Defence

Define the term digital transformation and what is its importance (contribution) for digital societies?

Describe how the DESI simulation tool works, i.e., what you had to do to get relevant data for your analysis?

Final Evaluation

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

I propose to grade this Bachelor's thesis as follows: **B**

In Pardubice 30.6.2023

Signature *Ing. et Ing. Martin Lněnička, Ph.D.* by own hand