Peer review

Reviewing the work of peers is important for academic work. The idea is to let experts in the same field review articles submitted to journals and conferences to make sure each publication keeps a high standard.

You are now to review another students submission with the intention of helping the student to improve their work. Reviewing will also help you to reflect on your own work.

Also, write comments on their thesis document remember to be helpful and constructive. Sometimes it helps a lot to just say "I dont understand this part".

E-post *

yd222br@student.lnu.se

Your LNU student ID *

yd222br

First Slack name of the student you review *

Logan Fouts

Second Slack name of the student you review

Henry Pap

In your own words, summarize (like the elevator pitch) the students work. One or two sentences each chapter

Chapter 1: This thesis addresses the challenge of near-duplicate image detection by proposing a new layered architecture-based framework that combines various image processing algorithms to create more flexible and effective solutions. It aims to bridge the gap between complex theoretical image processing algorithms and practical engineering solutions, enhancing the adaptability and efficiency of near-duplicate detection across diverse datasets and definitions.

Chapter2: The chapter discusses a research project that utilizes a layered architecture approach, inspired by design science principles, to enhance the detection of near-duplicate images. It aims to validate the effectiveness of this method through controlled experiments and comparative analysis, assessing various performance metrics to demonstrate improvements over existing techniques.

Introduction

- [x] The introduction clearly describes the thesis subject area (Application and Research area(s))
- [x] A challenge or problem is clearly described
- [x] The challenge or problem is within computer science
- [x] Related scientific works (computer science) are presented (what has been published in the problem area) and referenced.
- [ ] The introduction motivates the challenge or problem by referencing scientific work
- [x] The introduction motivates the challenge from how it will benefit the society or industry

How can the student improve the introduction? *

For section "Current Knowledge and Why Change", this part needs to add acedemic references to support statements.

Method

- [ ] The method chapter describes how each part of the challenge will be addressed.
- [ ] The method chapter describes research methods used and references a source of that method.
- [ ] The research methods are well motivated and alternative research methods are discussed
- [x] The method chapter describes reliability from the context
- [x] The method chapter describes validity from the context
- [x] The method chapter discusses how to increase the validity and reliability of the work.
- [x] Ethical considerations are discussed
- [ ] I can imagine an ethical issue with this that is not discussed. How the work could intentionally or unintentionally harm?

How can the student improve the method chapter? *

This chapter lacks of acdemic references to support the method part. This chapter may need to discuss alternative research methods.

Theoretical background and Gap

- [ ] The author demonstrates good understanding of the area.
- [ ] Core areas are sufficiently described and explained
- [ ] There is a discussion on a specific challenge or set of challenges.
- [ ] Related work is discussed in relation to the challenges!
- [ ] A distinct knowledge gap is identified, described and framed.

Implementation and results

- [ ] All artifacts (for example prototypes) are described (if applicable)
- [ ] Data collection methods are described (could also be in method if planed)
- [ ] All results are presented in an understandable way
- [ ] Each result is presented and described with context.
- [ ] Graphs and images are readable and all texts can be read within a graph

How can the student improve the results chapter *

The authors haven't done yet.

Analysis and discussion

- [ ] Methods of analysis (how it was done) is clearly described and well-motivated.
- [ ] The findings is connected to the challenge faced
- [ ] All claims are supported by results or other sources
- [ ] The validity of the findings are discussed
- [ ] In discussion the author connects to related work

How can the student improve their analysis and discussion *

The authors haven't done yet.

Conclusions and future work

- [ ] A summary of the entire project is provided
- [ ] Results and findings are summarized
- [ ] All claims are well grounded with own results or other sources
- [ ] Future work is reasonable and discussed

How can the student improve the conclusion and future work chapters *

The authors haven't done yet.

Language and structure *

- [ ] I found some part(s) was hard to read
- [ ] I found errors that could have been avoided using a spell-checker such as grammarly/word
- [x] Concepts and acronyms were not defined before they were used.
- [ ] I needed to jump forward or backward to understand something

How can the student improve their language to make their thesis more accessible? *

In general, the language is easy to follow. For section "Current Knowledge and Why Change", it would be easier to follow that discussing the terms/concepts "DHash, Geometric MinHash, VGG Net" before presenting the table.

How can the student improve their thesis project *

In general, this thesis needs to add more references for many statements with difference sections, so far this paper only used 3 acedemic references. The method chapter also misses source of reference to support the methodology.

For the introduction part, this thesis may need to expand the literature review and include more similar research within this field. For the method chapter, the thesis needs to improve the current work to a more detailed methodological framework with explicit experimental designs and benchmarks as well as adding more acedemic references to support.