

MIALab Project HS2020

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Abstract—Here is the abstract

I. INTRODUCTION

Our hypothesis: "Image normalization has an important influence on the segmentation". Aims of the introduction:

- To demonstrate importance/impact need
- To demonstrate novelty
- To justify the hypothesis / aims / investigated technology
- To establish expectations/scope of the report

Some questions which could be answered: Currently, z score normalization is implemented.

- Are there more powerful normalization methods?
- Is normalization really needed?
- Is the provided data already normalized in some way?
- Can you also unnormalize data to show a negative effect?

For the research:

- Understand the problem
- What have others already done / is there already a solution?
- Can I apply a solution to another problem to my problem?
- What lessons can I learn from others work?
- What deficiencies exist in others work?

1) Demonstrate importance

- a) Define the problem
- b) Explain the criticality, impact of the problem

2) Demonstrate Novelty

- a) Explain what is the state of the art / current practice
- b) Explain what preliminary / related work has been done towards solving the problem by you and others
- c) Explain what deficiencies / problems still exist (specifically the one that you will try to address)

3) Present and Justify the Hypothesis / aim / objective

- a) **State Hypothesis /aim/ objective**
- b) **Describe evidence supporting hypothesis**
- 4) **Establish expectations of the report**
 - a) **Describe scope of the presented work**
 - b) **Present a summary of remainder of the report**

- a) **Summarise your findings and relate your findings back to your hypothesis / aim / objective and to your problem.**
- b) **Based on your findings, suggest next steps towards solving your problem**

II. METHODOLOGY

A. Data

B. Evaluation

III. RESULTS

The results section should match approximately the data analysis section.

IV. DISCUSSION

Aims of the Discussion part:

- **Highlight importance of your work (highlight novelty /impact etc**
- **To interpret your results in relation to your original problem**
- **To put your work into the context of existing work**
- **To present any limitations of the presented work**
- **To make future recommendations**
- **To provide a conclusion of the work**
- 1) **Importance of the work**
 - a) **Summarise your results**
 - b) **Reiterate the importance of the work (novelty , impact etc)**
- 2) **Interpretation of results**
 - a) **Interpret your results focussing on the problem described in the introduction. What do the results mean for the described problem?**
 - b) **Explain any unusual/important findings (be careful if not your original investigative subject)**
- 3) **Provide context**
 - a) **Describe your results in relation to others and try to explain any discrepancies**
 - b) **Emphasize how your results support or refute your hypotheses current thinking in the field. Were results as expected? If not why and what does this mean?**
- 4) **Limitations of your work**
 - a) **Describe any limitations /deficiencies of your work and what impact they have on the findings**
 - b) **Suggest possible future solutions**
- 5) **Conclusions**

ACKNOWLEDGMENT

REFERENCES

- [1] Test reference 1
- [2] Test reference 2