

Title (Understandable But Catchy Is Nice)

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Dec 31, 2012

Abstract

Write this section last. A reasonable way to write an abstract is to write a 1 sentence highlight of each of the sections in the paper, then go back and smooth it out so it flows cleanly and makes the key points you want.

1 Introduction

Write a short paragraph on the importance of image classification.

Write a short paragraph on limitations of existing methods.

Write a short paragraph that mentions what's to come in the design, training and implementation sections.

2 Related Work

2.1 Design

Briefly mention LeNet and AlexNet, then politely point out some of their limitations.

2.2 Training

Briefly mention mini batch SGD, then politely point out some of it's limitations.

2.3 Implementation

Briefly mention x86 CPUs + GPUs for training, then politely mention some of their limitations.

3 Design

Describe your new network design focusing on the encoder (body) building block structure and efficient for classification decoder (head). Provide some motivation and benefits, consider providing figures to

illustrate key parts and a table to summarize the resulting family of designs.

4 Training

Describe your new training methods. Include a figure with training data loss and validation data accuracy curves. Mention different experiments you tried and their results.

5 Implementation

Describe your performance prediction strategy. It would be nice to show a figure with external memory, DDR bus, internal memory, matrix compute and general host. Then either here or in an appendix include a table showing the per layer memory location assignment and predicted data movement and compute time.

It would be nice to highlight what parts / layers in the network take longer than others and why to help guide people working on implementation improvements.

6 Conclusion

Write 1 – 2 sentences on each of motivation, design, training and implementation. Do this after putting together the other sections but before the abstract.

References

Note: As stated above, this paper is a work of fiction. The following are the actual inventors of the ideas described in this paper.

[1] F. LastName, et. al., "Some paper title," arXiv:1512.34567, 2015.

[2] F. LastName, et. al., "Some other paper title," arXiv:1601.23456, 2016.

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