Robust Agglomeration of Labeled Neurons using 3D Skeletonization

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Abstract

THE ABSTRACT

1. Introduction

- Connectomics background
- Problem Statement
- Summary of previous work (lite)
- Summary of our method
- Summary of contributions

2. Related Work

- Connectomics in general
- Connectomics Skeletonization (+general)
- Connectomics Segmentation
- Connectomics Agglomeration
- Connectomics Proofreading

3. Method

3.1. Preprocessing

- Skeletonization
- Feature generation

3.2. Error Detection

- CNN Architecture
- Classifier Inputs

3.3. Agglomeration

- Error Correction

4. Evaluation

4.1. Datasets

4.2. Classifier Training

4.3. Experiments

5. Results

6. Conclusions

- Impact
- Future work

References