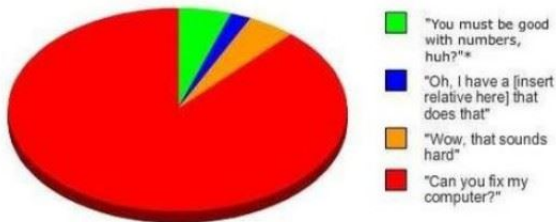


Other People's Responses to the fact that I am a Computer Science Major



ALLFUNNYCHARTS.COM

Binarization of the Minutes of the Early Synod Meetings of the Reformed Churches in South-Africa

Zander Labuschagne

Supervisors: Prof. G.R. Drevin & Mev. S. Campher



Research Proposal for Binarization of Historical Handwritten Documents

- ▶ Problem Statement and Substantiation
- ▶ Research Aim
- ▶ Research Objectives
- ▶ Methods of Investigation
- ▶ Review

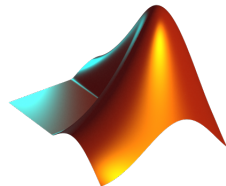
- ▶ Binarization as First Objective in Document Image Processing
- ▶ Importance of Binarization
- ▶ Existing Research on Historical Handwritten Document Binarization
- ▶ Document Binarization vs Historical Document Binarization

- ▶ Binarization as First Objective in Document Image Processing
- ▶ Importance of Binarization
- ▶ Existing Research on Historical Handwritten Document Binarization
- ▶ Document Binarization vs Historical Document Binarization
- ▶ **Determine which binarization algorithm is best suited for the binarization of historical handwritten text on degraded paper.**

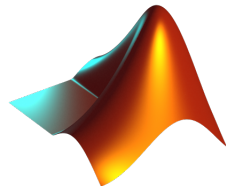
Propose a binarization algorithm best suited for the binarization of historical handwritten documentation.

- ▶ Literature Study:
 - ▶ Thresholding Techniques
 - ▶ Binarization Algorithms
 - ▶ Evaluation of Document Image Binarization

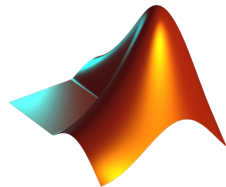
- ▶ Literature Study:
 - ▶ Thresholding Techniques
 - ▶ Binarization Algorithms
 - ▶ Evaluation of Document Image Binarization
- ▶ Familiarization with MathWorks MATLAB



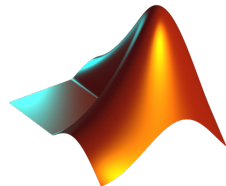
- ▶ Literature Study:
 - ▶ Thresholding Techniques
 - ▶ Binarization Algorithms
 - ▶ Evaluation of Document Image Binarization
- ▶ Familiarization with MathWorks MATLAB
- ▶ Performance Analysis on Thresholding and Binarization



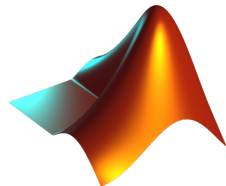
- ▶ Literature Study:
 - ▶ Thresholding Techniques
 - ▶ Binarization Algorithms
 - ▶ Evaluation of Document Image Binarization
- ▶ Familiarization with MathWorks MATLAB
- ▶ Performance Analysis on Thresholding and Binarization
- ▶ Improve Existing Binarization Algorithm(s)



- ▶ Literature Study:
 - ▶ Thresholding Techniques
 - ▶ Binarization Algorithms
 - ▶ Evaluation of Document Image Binarization
- ▶ Familiarization with MathWorks MATLAB
- ▶ Performance Analysis on Thresholding and Binarization
- ▶ Improve Existing Binarization Algorithm(s), **OR**
Design New Binarization Algorithm If Opportune



- ▶ Literature Study:
 - ▶ Thresholding Techniques
 - ▶ Binarization Algorithms
 - ▶ Evaluation of Document Image Binarization
- ▶ Familiarization with MathWorks MATLAB
- ▶ Performance Analysis on Thresholding and Binarization
- ▶ Improve Existing Binarization Algorithm(s), **OR**
Design New Binarization Algorithm If Opportune
- ▶ Evaluate and Implement Binarization Algorithm of Choice



- ▶ Research Methodology:
 - ▶ Experimental Computer Science Methodology
- ▶ Algorithm Performance Analysis
- ▶ Algorithm Design
- ▶ Binarization Result Evaluation

- ▶ Problem Statement and Substantiation
- ▶ Research Aim & Objectives
- ▶ Methods of Investigation

Questions

