Department of Physics and Astronomy

University of Heidelberg

Master thesis

in Computer Engineering

submitted by

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(Title)

(of)

(Master thesis)

This Master thesis has been carried out by Habib Gahbiche

at the

Institute of Environmental Physics

under the supervision of

Prof. Dr. Bernd Jähne

and

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Institute of Computer Engineering

(Titel der Masterarbeit - deutsch):

(Abstract in Deutsch, max. 200 Worte. Beispiel: ?)

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(Title of Master thesis - english):

(abstract in english, at most 200 words. Example: ?)

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Introduction

This is my intro

1 Theory

- 1.1 Bubble physics
- 1.2 Image processing
- 1.2.1 Fourier theory
- 1.2.2 Convolution, Filtering
- 1.2.3 Orientation, Structure tensor
- 1.2.4 Machine Learning
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2 Experimental Setup

- 2.1 Requirements
- 2.2 Aquarium
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- 3 The Algorithm
- 3.1 BubbleNet
- 3.2 Curvature based
- 3.3 Calibration

Appendix

A Lists

- A.1 List of Figures
- A.2 List of Tables

Erklärung:
Ich versichere, dass ich diese Arbeit selbstständig verfasst habe und keine anderen als die angegebenen Quellen und Hilfsmittel benutzt habe.
Heidelberg den (Datum)