

The Hong Kong Polytechnic University

Department of Computing

**External and Internal Nonlocal
Self-similarity based Models for Image
Denoising**

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**A thesis
submitted in partial fulfilment of the requirements
for the degree of**

Doctor of Philosophy

July 9, 2017

CERTIFICATE OF ORIGINALITY

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(Signed)

Jun Xu

(Name of student)

Abstract

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Acknowledgement

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Introduction

” *"Mens cujusque is est Quisque" – "Mind
Makes the Man"*

— Samuel Pepys

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1.1 Introduction of General

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1.2 Current

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1.3 Proposed

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1.4 Thesis Structure

Chapter 2

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Chapter 5

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— **Samuel Pepys**

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2.1 System

Hello, here is some text without a meaning. This text should show what a printed text will look like at this place. If you read this text, you will get no information. Really? Is there no information? Is there a difference between this text and some nonsense like “Huardest gefburn”? Kjift – not at all! A blind text like this gives you information about the selected font, how the letters are written and an impression of the look. This text should contain all letters of the alphabet and it should be written in of the original language. There is no need for special content, but the length of words should match the language.

2.2 Feature Extraction

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” *Innovation distinguishes between a leader and a follower.*

— **Steve Jobs**
(CEO Apple Inc.)

3.1 Introduction



Fig. 3.1: Figure example: (a) example part one, (c) example part two; (c) example part three

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Fig. 3.2: Another Figure example: (a) example part one, (c) example part two; (c) example part three

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3.2 System Design

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3.3 Demo System

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3.4 Calibration

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3.5 Conclusion

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Feature Extraction

“Users do not care about what is inside the box, as long as the box does what they need done.

— Jef Raskin

about Human Computer Interfaces

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4.1 Introduction

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4.2 Related Work

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4.3 Method

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4.4 Experimental Results

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4.5 Summary

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5.2 Related Work

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Conclusions

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6.1 Section 1

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6.2 Section 2

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6.3 Future Work

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