

國立清華大學

碩士論文

自動光學檢測系統的演算法改良

An Algorithm improve on AOI System

系所別：資訊系統與應用研究所碩士班

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Chapter 1

Introduction

1.1 Motivation

Since the cost of existing software solution is too high, and has little flexibility while tuning algorithms. The

1.1.1 Previous Solution

add previous work here.

1.2 Related Works

add referenced paper here and write some comment

1.3 Goal

Design a system that is both cost efficient and time efficient. Could identify lettering defect and LED light defect on keyboard.

1.4 Divide and Conquer

1.4.1 Main Contribution of This Dissertation

Reducing the Difficulty of Problems

Independence of Subproblems

Parallelism

Chapter 2

Overview of System

In this section, previous works of OMR are mentioned. Preprocessing (binarization, staff profiling, staff detection, and staff removal) and recognition (symbol segmentation, symbol classification) are included.

2.1 Binarization

2.2 Staff Detection and Removal

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