

NTIT 國立臺中技術學院

系所:資訊工程系碩士在職專班

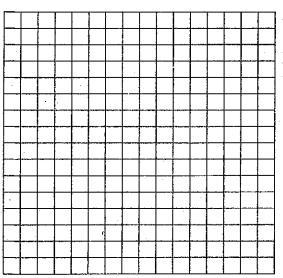
准考證號碼:

科目:論文閱讀能力與分析

- 1.答案依序書寫於答案卷上,不必抄題。
- 2.答案卷不可書寫任何可辨別個人姓名或特殊標記,違者不予計算。

99 學年度碩士班考試入學暨碩士在職專班試題

- 3.請於試題紙上填寫准考證號碼,繳卷時「試題」、「答案卷」
- · According to the paper entitled "New pixel-decimation patterns for block matching in motion estimation", please answer the following five questions.
- 1. For a 16×16 block and k=5, draw its boundary-based pixel-decimation pattern. (10%)

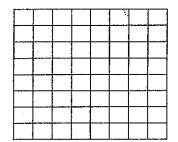


□ no pixel decimation

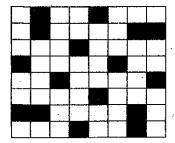
■ pixel decimation

- 2. As considering the answer of Question 1, calculate the value of SpeedUp Factor (SUF) and explain the meaning of its size changing. (10%)
- 3. In pixel-decimation approach, please compare the advantages and disadvantages of Full pattern, 4-queen pattern and 8-queen pattern. (For example: Figure 6 in the paper) (10%)
- 4. Please refer to the following "Chromosome A" and draw the corresponding 8x8 pixel-decimation pattern. (10%)

Chromosome A	2	6	9	12	15	18	26	35	39	48	50	52	54	57	61	64
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5. Compare the pattern which you draw in Question 4 with the following pattern to show which the best GA-based solution is, and give the reasons. (10%)



- According to the paper entitled "CCOA: Cloud Computing Open Architecture", please answer the following five questions.
- 6. The authors claimed that there is currently no standard definition or specification for Cloud Computing. Please give the main contributions of this manuscript. (10%)
- 7. There are several types of resources in Cloud Computing can be provisioned and consumed over the Internet. Please show what they are and give examples. (10%)
- 8. Please give the purpose of virtualization. (10%)
- 9. Please show what will happen if no extensible service provisioning is provided in Cloud Computing system. (10%)
- 10. In this manuscript, seven architectural principles are given. Please give the main spirit of Principles 6 and 7 briefly. (10%)