COMP 9517 Computer Vision

Class Test
Introduction

• How long?
  – 60 minutes
• Where?
  – Ainswth202
• When?
  – 15:00-16:00, Mon 19 September
• Marks?
  – 30%
Introduction

• Based on lecture notes and corresponding chapters in textbooks
• Closed book exam
• No laptop or phone
Questions

• Multiple choice questions
  – 10 questions
  – 10 marks in total
  – Only one correct answer each
  – Either 1 mark or 0 mark for each question
Questions

• Sample for multiple choice questions

Which of the following statements is INCORRECT for decision tree:

a) Nodes in the tree represent features
b) The root node contains the class labels
c) One feature (or a few) at a time to split search space of patterns
d) Each branching node has one child for each possible value of the parent feature
Questions

• Mix of short and long answer questions
  – 20 marks in total
  – Beside others, expect one question each from assignment and project part 1
  – Based on algorithms or concepts
Questions

• Sample for short questions

How does SIFT descriptor handle scaling invariance?
Questions

• Sample for long questions

In order to print a colour image, we need to convert the image into a colour model that is suitable for printing.

From RGB, CMY and HSI colour models, select a colour model that is suitable for printing. Explain the three primary colours in the model selected and convert the following image in RGB colour model to that model.

\[
\begin{array}{ccc}
100 & 50 \\
255 & 150 \\
\end{array}
\quad
\begin{array}{ccc}
255 & 0 \\
255 & 70 \\
\end{array}
\quad
\begin{array}{ccc}
0 & 5 \\
255 & 50 \\
\end{array}
\]

\begin{array}{l}(R) \quad (G) \quad (B)\end{array}