Examination Feedback for EEE6081 – Visual Information Engineering
Spring Semester 2013-14

Feedback for EEE6081 Session: 2013-2014

Feedback: Please write simple statements about how well students addressed the exam paper in general and each individual question in particular including common problems/mistakes and areas of concern in the boxes provided below. Increase row height if necessary.

General Comments:

The overall performance in this exam was very good. The most common mistakes include not reading the question well (leading to not answering to what was asked in the question) and incomplete numerical answers, where the units were ignored or wrong units were used. Sometimes, if a figure is needed for an answer, the individual items in the figures were not labeled correctly.

Question 1:

This question was attempted well. Most students answered parts (a) and (b) well. However, in part (c) most students forgot to verify that the transform was orthogonal before using the concept of inverse is the same as transpose of the transform matrix. In part (d) most answers were incomplete as most student failed to appreciate the use of low pass component correctly. Most answers for part (e) were incomplete demonstrating the inability of applying the knowledge of Multi resolution analysis into image processing.

Question 2:

Although this question was the least popular question in terms of your selections, overall, this was the best performed question. The question required descriptive answers. The figures used in the answers were very poor. Especially, for part (a) the Motion estimation diagrams did not show accurate correspondence in terms of block partitioning between frames. Part (b) was answered well. However for parts (c) (d) and (e) most answers were incomplete, missing important elements of the answer.

Question 3:

This is also another popular question. However, the performance was poor. Part (a) was answered well. But part (b) lacked some important elements in the explanations needed. The main mistake in Part (c) was not showing the appropriate units. In part (d), most students confused “quality scalability” with other types of scalability. Part (e) was answered poorly showing that the concepts of lifting have not been grasped well.

Question 4:

This was the most popular question and showed a reasonable performance. The main problem was not producing quality diagrams with accurate labeling. This was particularly observed in parts (a) and (d). The main mistake in part (b) was failing to show the limits to infinity and deriving the approximation for the redundancy factor. In pat(c) there were confusions with the wavelet transform and the pyramid transform and also resolution scalability with other types of scalabilities, indicating not reading the question well.