



## EE 583 - Digital Image Processing Final Exam Tutorial

### QUESTIONS

1. Given a 5x5 pixel image and respective pixel values (8-bit code for each pixel) below,
- Calculate the respective Huffman Codes for each symbol (each pixel value) of the given image.
  - What is the compression ratio achieved by employing Huffman Coding instead of 8-bit fixed-length coding.
  - Calculate the relative data redundancy of the given 8-bit image and comment on the type of the redundancy used by Huffman coding.
  - Calculate the entropy and the *bpp*(bits per pixel) of the image after Huffman Coding.



- $p(110) = 5/25 = 0.2$   
 $p(120) = 7/25 = 0.28$   
 $p(140) = 5/25 = 0.2$   
 $p(160) = 4/25 = 0.16$   
 $p(170) = 3/25 = 0.12$   
 $p(180) = 1/25 = 0.04$

Symbol	Prob	Code	Prob	Code	Prob	Code	Prob	Code	Prob	Code
120	0.28	<b>01</b>	0.28	01	0.32	00	0.40	1	0.60	0
110	0.2	<b>10</b>	0.2	10	0.28	01	<b>0.32</b>	00	0.40	1
140	0.2	<b>11</b>	0.2	11	<b>0.2</b>	10	<b>0.28</b>	01		
160	0.16	<b>000</b>	<b>0.16</b>	000	<b>0.2</b>	11				
170	<b>0.12</b>	<b>0010</b>	<b>0.16</b>	001						
180	<b>0.04</b>	<b>0011</b>								

Huffman Codes for the respective symbols

$$b) L_{avg} = \sum_{i=1}^L l(r_i) P_i(r_i) \Rightarrow L_{avg} = 0.28(2) + 0.2(2) + 0.2(2) + 0.16(3) + 0.12(4) + 0.04(4) = 2.48 \text{ (bits/symbol)}$$

$$\text{Compression Ratio, } C = \frac{5 \times 5 \times 8}{3 \times 25} = 3.2258$$

$$c) \text{ Relative Data Redundancy, } R = 1 - \frac{1}{C} = 1 - \frac{1}{3.2258} = 0.69 \Rightarrow 69\%$$

$$d) \text{ Entropy, } H = - \sum_{i=1}^L P_i(r_i) \log_2 P_i(r_i) \Rightarrow$$

$$H = -(0.04 * \log_2(0.04) + 0.12 * \log_2(0.12) + 0.16 * \log_2(0.16) + 0.2 * \log_2(0.2) + 0.2 * \log_2(0.2) + 0.28 * \log_2(0.28)) = 2.4188 \text{ } b_{pp} \text{ (bits/pixels)}$$

# Digital Signal Processing Final Exam Solutions

**G. P. Singh, John L. Schmalzel, S. S.  
Upda**



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