

Code No: RR410407

RR

Set No. 2

IV B.Tech I Semester Examinations, NOVEMBER 2010
DIGITAL IMAGE PROCESSING
Common to Electronics And Telematics, Electronics And Communication
Engineering

Time: 3 hours

Max Marks: 80

Answer any FIVE Questions
All Questions carry equal marks

1. What is meant by thresholding? State and explain in detail various thresholding techniques. [16]
2. (a) Discuss the functioning of source encoder and decoder in image compression.
(b) Explain about Huffman coding with suitable examples. [8+8]
3. (a) Distinguish between continuous and discrete function? Give suitable example to each type.
(b) Explain how continuous functions can be discretized. [6+10]
4. (a) What is meant by a monochrome image? Discuss how it will be represented.
(b) With a neat diagram explain the fundamental steps in digital image processing. [6+10]
5. (a) Explain about Butter worth high pass filter with necessary expressions.
(b) Discuss about generation of spatial marks from frequency domain specifications. [8+8]
6. Discuss clearly the various methods for image restoration. Discuss their advantages and disadvantages. [16]
7. (a) Explain about Histogram specification with necessary derivations
(b) What is meant by local enhancement? Discuss its importance. [10+6]
8. Explain in detail the Fast Fourier Transform (FFT) algorithm. [16]

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Set No. 4

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Engineering

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(b) With a neat diagram explain the fundamental steps in digital image processing. [6+10]
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Set No. 1

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Engineering

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1. (a) Distinguish between continuous and discrete function? Give suitable example to each type.
(b) Explain how continuous functions can be discretized. [6+10]
2. (a) Explain about Histogram specification with necessary derivations
(b) What is meant by local enhancement? Discuss its importance. [10+6]
3. (a) Discuss the functioning of source encoder and decoder in image compression.
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5. (a) What is meant by a monochrome image? Discuss how it will be represented.
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6. Explain in detail the Fast Fourier Transform (FFT) algorithm. [16]
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8. (a) Explain about Butter worth high pass filter with necessary expressions.
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Set No. 3

IV B.Tech I Semester Examinations, NOVEMBER 2010
DIGITAL IMAGE PROCESSING
Common to Electronics And Telematics, Electronics And Communication
Engineering

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2. (a) Explain about Butter worth high pass filter with necessary expressions.
(b) Discuss about generation of spatial marks from frequency domain specifications. [8+8]
3. (a) Discuss the functioning of source encoder and decoder in image compression.
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