Side panel

Question text

91. For edge detection we observes

Select one:



a.

sign transition



b.

shape transition



c.

intensity transition



d.

color transition

Question **2**

Complete

Mark 1.00 out of 1.00

Flag question

Question text

155. For which of the following regions, compactness is minimal?

Select one:



a.

Rectangle



b.

Square



c.

Irregular



d.

Disk

Question **3**

Complete

Mark 1.00 out of 1.00

Flag question

Question text

69. Sudden changes in intensity produces peak in

Select one:



a.

second derivative



b.

Both a and b



c.

third derivative



d.

first derivative

Question **4**

Complete

Mark 1.00 out of 1.00

Flag question

Question text

73. Accuracy of image segmentation can be improved by the type of

Select one:



a.

divisions



b.

images



c.

sensors



d.

processes

Question **5**

Complete

Mark 1.00 out of 1.00

Flag question

Question text

68. Segmentation algorithms depends on intensity values'

Select one:



a.

Both a and b



b.

discontinuity



c.

continuity



d.

similarity

Question **6**

Complete

Mark 1.00 out of 1.00

Flag question

Question text

131. First and second derivatives can be computed using

Select one:



a.

spatial filters



b.

frequency filters



c.

high pass



d.

low pass

Question **7**

Complete

Mark 1.00 out of 1.00

Flag question

Question text

43. Intensity's local changes can be detected through

Select one:



a.

differentiation



b.

addition



c.

derivation



d.

integration

Question **8**

Complete

Mark 1.00 out of 1.00

Flag question

Question text

92. For diagonal edge detection we use

Select one:



a.

4D mask



b.

1D mask



c.

3D mask



d.

2D mask

Question **9**

Complete

Mark 1.00 out of 1.00

Flag question

Question text

33. Discontinuity approach of segmentation depends upon

Select one:



a.

smooth changes



b.

low frequencies



c.

abrupt changes



d.

contrast

Question **10**

Complete

Mark 1.00 out of 1.00

Flag question

Question text

84. The magnitude of vector is its

Select one:



a.

edge



b.

strength



c.

distance



d.

length

Question **11**

Complete

Mark 1.00 out of 1.00

Flag question

Question text

88. Local averaging

Select one:



a.

darkens image



b.

blurs image



c.

sharps image



d.

smooths image

Question **12**

Complete

Mark 1.00 out of 1.00

Flag question

Question text

126. Isotropic detectors are independent of

Select one:



a.

edges



b.

directions



c.

intensities



d.

pixels

Question **13**

Complete

Mark 1.00 out of 1.00

Flag question

Question text

30. Response of derivative mask is zero at

Select one:



a.

high intensities



b.

sharp intensities



c.

low intensities



d.

constant intensities

Question **14**

Complete

Mark 1.00 out of 1.00

Flag question

Question text

47. Points other than exceeding the threshold in output image are marked as

Select one:



a.

1



b.

0



c.

x



d.

11

Question **15**

Complete

Mark 1.00 out of 1.00

Flag question

Question text

60. Laplacian images need

Select one:



a.

expansion



b.

scaling



c.

contraction



d.

enhancement

Question **16**

Complete

Mark 1.00 out of 1.00

Flag question

Question text

36. Second derivatives are zero at points on

Select one:



a.

step



b.

constant intensity



c.

ramp



d.

edge

Question **17**

Complete

Mark 1.00 out of 1.00

Flag question

Question text

57. If R is the entire region of the image then union of all segmented parts should be equal to

Select one:



a.

R'



b.

Ri



c.

R



d.

Rn

Question **18**

Complete

Mark 1.00 out of 1.00

Flag question

Question text

18. Horizontal lines are angles at

Select one:



a.

45



b.

30



c.

90



d.

0

Question **19**

Complete

Mark 1.00 out of 1.00

Flag question

Question text

1. Digital functions' derivatives are defined as

Select one:



a.

division



b.

multiplication



c.

differences



d.

addition

Question **20**

Complete

Mark 1.00 out of 1.00

Flag question

Question text

117. Second derivatives have stronger response to

Select one:



a.

noise



b.

edges



c.

thin lines



d.

Both a and b

Question **21**

Complete

Mark 1.00 out of 1.00

Flag question

Question text

102. If all lines in the direction of defined direction of mask are wished to be found then we use

Select one:



a.

thin edges



b.

enhancement



c.

thick edges



d.

thresholding

Question **22**

Complete

Mark 1.00 out of 1.00

Flag question

Question text

128. For diagonal edge detection we use 2D mask of

Select one:



a.

pre witt gradient



b.

Robert cross gradient



c.

cross gradient



d.

sobel gradient

Question **23**

Complete

Mark 1.00 out of 1.00

Flag question

Question text

46. The preferred direction of mask is weighted with the

Select one:



a.

low value coefficients



b.

high value coefficients



c.

mid value coefficients



d.

double value coefficients

Question **24**

Complete

Mark 1.00 out of 1.00

Flag question

Question text

9. For finding lines at angle 45 we use mask of values

Select one:



a.

[2 -1 -1; -1 2 -1; -1 -1 2]



b.

[-1 -1 2; -1 2 -1;2 -1 -1]



c.

[-1 -1 -1; 2 2 2; -1 -1 -1]



d.

[-1 2 -1; -1 2 -1; -1 2 -1]

Question **25**

Complete

Mark 1.00 out of 1.00

Flag question

Question text

139. Success of image segmentation is determined by its

Select one:



a.

quality



b.

accuracy



c.

pixels



d.

size

Question **26**

Complete

Mark 1.00 out of 1.00

Flag question

Question text

8. First derivative approximation says that values of constant intensities must be

Select one:



a.

positive



b.

1



c.

0



d.

negative

Question **27**

Complete

Mark 1.00 out of 1.00

Flag question

Question text

153. What does the total number of pixels in the region defines?

Select one:



a.

Area



b.

Perimeter



c.

Intensity



d.

Brightness

Question **28**

Complete

Mark 1.00 out of 1.00

Flag question

Question text

130. Gradient vector is also called

Select one:



a.

edge normal



b.

edge based segmentation



c.

edge segment



d.

edge pixels

Question **29**

Complete

Mark 1.00 out of 1.00

Flag question

Question text

107. The coefficients of masks sum to

Select one:



a.

positive



b.

1



c.

negative



d.

0

Question **30**

Complete

Mark 1.00 out of 1.00

Flag question

Question text

90. Edges arise between thin objects and backgrounds are

Select one:



a.

ramp edges



b.

step edge



c.

thinness of edges



d.

roof edges

Question **31**

Complete

Mark 1.00 out of 1.00

Flag question

Question text

14. In laplacian images light shades of gray level is represented by

Select one:



a.

negative



b.

1



c.

positive



d.

0

Question **32**

Complete

Mark 1.00 out of 1.00

Flag question

Question text

143. If all the regions are labeled with same intensity then it produces

Select one:



a.

unblocky effect



b.

blocky effect



c.

regional effect



d.

segmented effect

Question **33**

Complete

Mark 1.00 out of 1.00

Flag question

Question text

42. Sobel is better than prewitt in image

Select one:



a.

smoothing



b.

blurring



c.

sharpening



d.

contrast

Question **34**

Complete

Mark 1.00 out of 1.00

Flag question

Question text

5. If the inner region of the object is textured then approach we use is

Select one:



a.

recognition



b.

similarity



c.

extraction



d.

discontinuity

Question **35**

Complete

Mark 1.00 out of 1.00

Flag question

Question text

135. Thresholding gradient image produces good

Select one:



a.

discontinuity



b.

continuity



c.

segmentation



d.

edge detection

Question **36**

Complete

Mark 1.00 out of 1.00

Flag question

Question text

120. Edge localization id edge detection's

Select one:



a.

2nd point



b.

4th point



c.

1st point



d.

3rd point

Question **37**

Complete

Mark 1.00 out of 1.00

Flag question

Question text

77. Marr hildreth method was introduced for

Select one:



a.

sharpening



b.

edge finding



c.

recognition



d.

segmentation

Question **38**

Complete

Mark 1.00 out of 1.00

Flag question

Question text

173. The order of shape number for a closed boundary is:

Select one:



a.

Odd



b.

Even



c.

1



d.

Any positive value

Question **39**

Complete

Mark 1.00 out of 1.00

Flag question

Question text

75. The vertical gradient pixels are denoted by

Select one:



a.

Gt



b.

Gs



c.

Gy



d.

Gx

Question **40**

Complete

Mark 1.00 out of 1.00

Flag question

Question text

142. Lines not assumed as thin as referred to as

Select one:



a.

points



b.

region



c.

edges



d.

thick lines

Question **41**

Complete

Mark 1.00 out of 1.00

Flag question

Question text

100. Second derivative approximation says that value at end of ramp must be

Select one:



a.

negative



b.

zero



c.

positive



d.

nonzero

Question **42**

Complete

Mark 1.00 out of 1.00

Flag question

Question text

21. Step edge transition is between pixels over the distance of

Select one:



a.

1 pixel



b.

3 pixels



c.

4 pixels



d.

2 pixels

Question **43**

Complete

Mark 1.00 out of 1.00

Flag question

Question text

63. If the standard deviation of the pixels is positive, then sub image is labeled as

Select one:



a.

red



b.

white



c.

green



d.

black

Question **44**

Complete

Mark 1.00 out of 1.00

Flag question

Question text

115. Locating the center of thick edges we use

Select one:



a.

zero crossing



b.

constant intensities



c.

continuity



d.

discontinuity

Question **45**

Complete

Mark 1.00 out of 1.00

Flag question

Question text

65. Marr hildreth method was introduced in

Select one:



a.

1983



b.

1981



c.

1980



d.

1982

Question **46**

Complete

Mark 1.00 out of 1.00

Flag question

Question text

86. Gradient image is formed by the component

Select one:



a.

Both a and b



b.

Gt



c.

Gy



d.

Gx

Question **47**

Complete

Mark 1.00 out of 1.00

Flag question

Question text

105. Edge detection is based on

Select one:



a.

smooths changes



b.

abrupt changes



c.

thinness of edges



d.

thickness of edges

Question **48**

Complete

Mark 1.00 out of 1.00

Flag question

Question text

101. In the sense of predicate two regions of the image must be

Select one:



a.

overlapped



b.

disjoint



c.

same



d.

different

Question **49**

Complete

Mark 1.00 out of 1.00

Flag question

Question text

81. Lines are referred as

Select one:



a.

roof edges



b.

Both a and b



c.

step edges



d.

ramp edges

Question **50**

Complete

Mark 1.00 out of 1.00

Flag question

Question text

49. Pixels where intensity changes abruptly are called

Select one:



a.

line pixels



b.

area pixels



c.

edge pixels



d.

point pixels

Question **51**

Complete

Mark 1.00 out of 1.00

Flag question

Question text

129. For finding lines at angle -45 we use mask of values

Select one:



a.

[-1 -1 2; -1 2 -1;2 -1 -1]



b.

[-1 -1 -1; 2 2 2; -1 -1 -1]



c.

[2 -1 -1; -1 2 -1; -1 -1 2]



d.

[-1 2 -1; -1 2 -1; -1 2 -1]

Question **52**

Complete

Mark 1.00 out of 1.00

Flag question

Question text

98. More smoothness is created by the mask of size

Select one:



a.

1x1



b.

5x5



c.

2x2



d.

3x3

Question **53**

Complete

Mark 1.00 out of 1.00

Flag question

Question text

172. Based on the 4-directional code, the first difference of smallest magnitude is called as:

Select one:



a.

Chain number



b.

Difference number



c.

Difference



d.

Shape number

Question **54**

Complete

Mark 1.00 out of 1.00

Flag question

Question text

146. First derivative approximation says that value at ramp must be

Select one:



a.

zero



b.

positive



c.

nonzero



d.

negative

Question **55**

Complete

Mark 1.00 out of 1.00

Flag question

Question text

32. One that is not a method of image segmentation is

Select one:



a.

point



b.

edge



c.

area



d.

line

Question **56**

Complete

Mark 1.00 out of 1.00

Flag question

Question text

176. Which of the following techniques of boundary descriptions have the physical interpretation of boundary shape?

Select one:



a.

Statistical moments



b.

Laplace transform



c.

Fourier transform



d.

Curvature

Question **57**

Complete

Mark 1.00 out of 1.00

Flag question

Question text

96. Edge detection has fundamental

Select one:



a.

4 points



b.

5 points



c.

3 points



d.

2 points

Question **58**

Complete

Mark 1.00 out of 1.00

Flag question

Question text

168. Which of the following is the useful descriptor of a boundary, whose value is given by the ratio of length of the major axis to the minor axis?

Select one:



a.

Perimeter



b.

Eccentricity



c.

Area



d.

Radius

Question **59**

Complete

Mark 1.00 out of 1.00

Flag question

Question text

27. Model of lines through region is called

Select one:



a.

thinness of edges



b.

ramp edges



c.

roof edges



d.

step edge

Question **60**

Complete

Mark 1.00 out of 1.00

Flag question

Question text

6. The horizontal gradient pixels are denoted by

Select one:



a.

Gx



b.

Gy



c.

Gs



d.

Gt

Question **61**

Complete

Mark 1.00 out of 1.00

Flag question

Question text

54. Image segmentation is also based on

Select one:



a.

extraction



b.

recognition



c.

morphology



d.

set theory

Question **62**

Complete

Mark 1.00 out of 1.00

Flag question

Question text

103. If inside the boundary is white otherwise black predicate is

Select one:



a.

FALSE



b.

1



c.

TRUE



d.

0

Question **63**

Complete

Mark 1.00 out of 1.00

Flag question

Question text

11. Ri is a connected set, where is

Select one:



a.

1,2,3…50



b.

1,2,3…n



c.

1,2,3,4



d.

1,2,3…10

Question **64**

Complete

Mark 1.00 out of 1.00

Flag question

Question text

104. One angle at which the lines in an image are not oriented is

Select one:



a.

30



b.

0



c.

45



d.

90

Question **65**

Complete

Mark 1.00 out of 1.00

Flag question

Question text

70. Ideal edges occur over the distance of

Select one:



a.

3 pixels



b.

1 pixel



c.

2 pixels



d.

4 pixels

Question **66**

Complete

Mark 1.00 out of 1.00

Flag question

Question text

2. For line detection we use mask that is

Select one:



a.

butterworth



b.

laplacian



c.

ideal



d.

Gaussian

Question **67**

Complete

Mark 1.00 out of 1.00

Flag question

Question text

121. To avoid the negative values in lapacian image we use only

Select one:



a.

Both a and b



b.

negative values



c.

absolute values



d.

positive values

Question **68**

Complete

Mark 1.00 out of 1.00

Flag question

Question text

97. Regions of the image must be

Select one:



a.

connected



b.

disjoint



c.

joint



d.

overlapped

Question **69**

Complete

Mark 1.00 out of 1.00

Flag question

Question text

149. Examples of similarity approach in segmentation are

Select one:



a.

Both a and b



b.

region splitting



c.

region growing



d.

extraction

Question **70**

Complete

Mark 1.00 out of 1.00

Flag question

Question text

50. Isolated point is also called

Select one:



a.

noise point



b.

step



c.

edge point



d.

ramp

Question **71**

Complete

Mark 1.00 out of 1.00

Flag question

Question text

58. Mask's response to zero means

Select one:



a.

multiplication to zero



b.

division to zero



c.

subtraction to zero



d.

sum to zero

Question **72**

Complete

Mark 1.00 out of 1.00

Flag question

Question text

123. Line whose length and width is of one pixel is called

Select one:



a.

points



b.

edge



c.

isolated point



d.

area

Question **73**

Complete

Mark 1.00 out of 1.00

Flag question

Question text

34. On ramp and step second derivatives produce

Select one:



a.

double line effect



b.

single effect



c.

single edge effect



d.

double edge effect

Question **74**

Complete

Mark 1.00 out of 1.00

Flag question

Question text

56. Vertical lines are angles at

Select one:



a.

45



b.

90



c.

0



d.

30

Question **75**

Complete

Mark 1.00 out of 1.00

Flag question

Question text

48. In laplacian images dark shades of gray level is represented by

Select one:



a.

1



b.

positive



c.

0



d.

negative

Question **76**

Complete

Mark 1.00 out of 1.00

Flag question

Question text

24. Second derivative approximation says that it is nonzero only at

Select one:



a.

onset



b.

edges



c.

step



d.

ramp

Question **77**

Complete

Mark 1.00 out of 1.00

Flag question

Question text

55. Image whose principle features are edges is called

Select one:



a.

edge normal



b.

orthogonal



c.

isolated



d.

edge map

Question **78**

Complete

Mark 1.00 out of 1.00

Flag question

Question text

15. For noise reduction we use

Select one:



a.

image smoothing



b.

image recognition



c.

image enhancement



d.

image contouring

Question **79**

Complete

Mark 1.00 out of 1.00

Flag question

Question text

71. Image intensities are normally ranged to

Select one:



a.

[0 256]



b.

[0 1]



c.

[0 2]



d.

[0 255]

Question **80**

Complete

Mark 1.00 out of 1.00

Flag question

Question text

95. Intersection between zero intensity and extreme of second derivative is called

Select one:



a.

similarity



b.

continuity



c.

zero crossing



d.

discontinuity

Question **81**

Complete

Mark 1.00 out of 1.00

Flag question

Question text

161. Topological properties don’t depend on the distance measures.

Select one:



a.

False



b.

Can't Say



c.

May be



d.

True

Question **82**

Complete

Mark 1.00 out of 1.00

Flag question

Question text

154. What is the unit of compactness of a region?

Select one:



a.

No units



b.

Meter-1



c.

Meter



d.

Meter2

Question **83**

Complete

Mark 1.00 out of 1.00

Flag question

Question text

78. When the desired object is detected segmentation should be

Select one:



a.

cleared



b.

continued



c.

stopped



d.

paused

Question **84**

Complete

Mark 1.00 out of 1.00

Flag question

Question text

113. The resolution of the image (12x12) is

Select one:



a.

12



b.

128



c.

256



d.

144

Question **85**

Complete

Mark 1.00 out of 1.00

Flag question

Question text

119. First derivatives in image segmentation produces

Select one:



a.

rough edges



b.

fine edges



c.

thick edges



d.

thin edges

Question **86**

Complete

Mark 1.00 out of 1.00

Flag question

Question text

165. Which of the following techniques is based on the Fourier transform?

Select one:



a.

Spectral



b.

Topological



c.

Statistical



d.

Structural

Question **87**

Complete

Mark 1.00 out of 1.00

Flag question

Question text

159. What is the study of properties of a figure that are unaffected by any deformation?

Select one:



a.

Topology



b.

Geography



c.

Statistics



d.

Deformation

Question **88**

Complete

Mark 1.00 out of 1.00

Flag question

Question text

67. Log function is also called

Select one:



a.

Mexican hat



b.

gray scale image



c.

gradient image



d.

Gaussian

Question **89**

Complete

Mark 1.00 out of 1.00

Flag question

Question text

41. A line is viewed as

Select one:



a.

area



b.

point



c.

edge



d.

edge segment

Question **90**

Complete

Mark 1.00 out of 1.00

Flag question

Question text

16. Diagonal lines are angles at

Select one:



a.

0



b.

30



c.

90



d.

45

Question **91**

Complete

Mark 1.00 out of 1.00

Flag question

Question text

17. Transition between objects and background shows

Select one:



a.

step edges



b.

ramp edges



c.

Both a and b



d.

sharp edges

Question **92**

Complete

Mark 1.00 out of 1.00

Flag question

Question text

137. Slope of the ramp and degree of blurring are

Select one:



a.

exponentially proportional



b.

directly proportional



c.

inversely proportional



d.

indirectly proportional

Question **93**

Complete

Mark 1.00 out of 1.00

Flag question

Question text

136. Laplacian detector is

Select one:



a.

coupled



b.

isomorphic



c.

isolated



d.

isotropic

Question **94**

Complete

Mark 1.00 out of 1.00

Flag question

Question text

4. For finding horizontal lines we use mask of values

Select one:



a.

[-1 2 -1; -1 2 -1; -1 2 -1]



b.

[2 -1 -1; -1 2 -1; -1 -1 2]



c.

[-1 -1 -1; 2 2 2; -1 -1 -1]



d.

[-1 -1 2; -1 2 -1;2 -1 -1]

Question **95**

Complete

Mark 1.00 out of 1.00

Flag question

Question text

59. Lines in an image can be oriented at angle

Select one:



a.

Both a and b



b.

90



c.

0



d.

30

Question **96**

Complete

Mark 1.00 out of 1.00

Flag question

Question text

162. What is the Euler number of a region with polygonal network containing V,Q and F as the number of vertices, edges and faces respectively?

Select one:



a.

V-Q-F



b.

V+Q+F



c.

V+Q-F



d.

V-Q+F

Question **97**

Complete

Mark 1.00 out of 1.00

Flag question

Question text

118. Edge pixels lie on darker or bright side of image can be determined by the

Select one:



a.

sign of second derivative



b.

sign of third derivative



c.

Both a and b



d.

sign of first derivative

Question **98**

Complete

Mark 1.00 out of 1.00

Flag question

Question text

38. 8bit image has intensity levels of

Select one:



a.

0



b.

128



c.

256



d.

255

Question **99**

Complete

Mark 1.00 out of 1.00

Flag question

Question text

39. Sobel operators were introduced in

Select one:



a.

1973



b.

1971



c.

1970



d.

1972

Question **100**

Complete

Mark 1.00 out of 1.00

Flag question

Question text

109. Fine details can be reduced by

Select one:



a.

sharpening



b.

smoothing



c.

contrast



d.

constant intensities

Question **101**

Complete

Mark 1.00 out of 1.00

Flag question

Question text

157. Which of the following measures are not used to describe a region?

Select one:



a.

Number of pixels alone



b.

Number of pixels above and below mean



c.

Mean and median of grey values



d.

Minimum and maximum of grey values

Question **102**

Complete

Mark 1.00 out of 1.00

Flag question

Question text

7. To avoid the negative values taking absolute values in lapacian image doubles

Select one:



a.

thinness of edges



b.

thickness of lines



c.

thickness of edges



d.

thinness of lines

Question **103**

Complete

Mark 1.00 out of 1.00

Flag question

Question text

108. Sum of coefficients of derivative mask is

Select one:



a.

negative



b.

1



c.

positive



d.

0

Question **104**

Complete

Mark 1.00 out of 1.00

Flag question

Question text

110. The sum of LOG filter coefficients should be

Select one:



a.

positive



b.

0



c.

1



d.

negative

Question **105**

Complete

Mark 1.00 out of 1.00

Flag question

Question text

20. For edge detection we use

Select one:



a.

first derivative



b.

second derivative



c.

Both a and b



d.

third derivative

Question **106**

Complete

Mark 1.00 out of 1.00

Flag question

Question text

37. Two regions are said to be adjacent if their union forms

Select one:



a.

region



b.

image



c.

boundaries



d.

connected set

Question **107**

Complete

Mark 1.00 out of 1.00

Flag question

Question text

124. Detection of edge points is edge detection's

Select one:



a.

1st point



b.

3rd point



c.

2nd point



d.

4th point

Question **108**

Complete

Mark 1.00 out of 1.00

Flag question

Question text

23. Smoothness reduced the bricks of

Select one:



a.

pixels



b.

edges



c.

constant intensities



d.

point pixels

Question **109**

Complete

Mark 1.00 out of 1.00

Flag question

Question text

144. Electronic components determines the image's

Select one:



a.

pixels



b.

thickness



c.

thinness



d.

noise

Question **110**

Complete

Mark 1.00 out of 1.00

Flag question

Question text

10. Second derivative approximation says that values along the ramp must be

Select one:



a.

negative



b.

zero



c.

nonzero



d.

positive

Question **111**

Complete

Mark 1.00 out of 1.00

Flag question

Question text

138. One that is more sensitive to noise is

Select one:



a.

second derivative



b.

first derivative



c.

Both a and b



d.

third derivative

Question **112**

Complete

Mark 1.00 out of 1.00

Flag question

Question text

87. Double line effect is produced by

Select one:



a.

Both a and b



b.

second derivative



c.

third derivative



d.

first derivative

Question **113**

Complete

Mark 1.00 out of 1.00

Flag question

Question text

80. For edge detection we combine gradient with

Select one:



a.

smoothing



b.

sharpening



c.

thresholding



d.

set theory

Question **114**

Complete

Mark 1.00 out of 1.00

Flag question

Question text

62. Textured inner region of the object produces

Select one:



a.

excellent boundary deletion



b.

good boundary deletion



c.

excellent [boundary extraction](https://drnguyentt.com/moodle30/mod/vpl/view.php?id=3058)



d.

good [boundary extraction](https://drnguyentt.com/moodle30/mod/vpl/view.php?id=3058)

Question **115**

Complete

Mark 1.00 out of 1.00

Flag question

Question text

28. Transition of intensity takes place between

Select one:



a.

near pixels



b.

line pixels



c.

edge pixels



d.

adjacent pixels

Question **116**

Complete

Mark 1.00 out of 1.00

Flag question

Question text

147. Edge models are classified based upon their

Select one:



a.

intensities



b.

edges



c.

Both a and b



d.

pixels

Question **117**

Complete

Mark 1.00 out of 1.00

Flag question

Question text

12. Gradient magnitude images are more useful in

Select one:



a.

edge detection



b.

line detection



c.

area detection



d.

point detection

Question **118**

Complete

Mark 1.00 out of 1.00

Flag question

Question text

13. Image having gradient pixels is called

Select one:



a.

blur image



b.

sharp image



c.

gradient image



d.

binary image

Question **119**

Complete

Mark 1.00 out of 1.00

Flag question

Question text

111. Canny edge detection algorithm is based on

Select one:



a.

ideal model



b.

step edge



c.

real model



d.

smoothing model

Question **120**

Complete

Mark 1.00 out of 1.00

Flag question

Question text

169. The term, Curvature is defined as:

Select one:



a.

Rate of change of area



b.

Rate of change of slope



c.

Rate of change of diameter



d.

Slope

Question **121**

Complete

Mark 1.00 out of 1.00

Flag question

Question text

160. On which of the following operation of an image, the topology of the region changes?

Select one:



a.

Change in distance measure



b.

Stretching



c.

Folding



d.

Rotation

Question **122**

Complete

Mark 1.00 out of 1.00

Flag question

Question text

61. For point detection we use

Select one:



a.

second derivative



b.

third derivative



c.

Both a and b



d.

first derivative

Question **123**

Complete

Mark 1.00 out of 1.00

Flag question

Question text

19. Standard deviation is referred to as noiseless if having the value

Select one:



a.

0.3



b.

0.1



c.

0.4



d.

0.2

Question **124**

Complete

Mark 1.00 out of 1.00

Flag question

Question text

106. Dividing image into its objects is called

Select one:



a.

recognition



b.

segmentation



c.

extraction



d.

Division

Question **125**

Complete

Mark 1.00 out of 1.00

Flag question

Question text

122. Masks for detection of specific lines are called

Select one:



a.

isolated



b.

tuned



c.

isomorphic



d.

isotropic

Question **126**

Complete

Mark 1.00 out of 1.00

Flag question

Question text

26. Computation of derivatives in segmentation is also called

Select one:



a.

high pass filtering



b.

low pass filtering



c.

frequency filtering



d.

spatial filtering

Question **127**

Complete

Mark 1.00 out of 1.00

Flag question

Question text

3. Gradient computation equation is

Select one:



a.

|Gx|x|Gy|



b.

|Gx|+|Gy|



c.

|Gx|/|Gy|



d.

|Gx|-|Gy|

Question **128**

Complete

Mark 1.00 out of 1.00

Flag question

Question text

114. In laplacian images mid gray level is represented by

Select one:



a.

1



b.

negative



c.

positive



d.

0

Question **129**

Complete

Mark 1.00 out of 1.00

Flag question

Question text

94. Algorithm stating that boundaries of the image are different from background is

Select one:



a.

similarity



b.

recognition



c.

discontinuity



d.

extraction

Question **130**

Complete

Mark 1.00 out of 1.00

Flag question

Question text

116. Strong Heat signatures can be detected using

Select one:



a.

microwave imaging



b.

infrared imaging



c.

x-ray imaging



d.

UV imaging

Question **131**

Complete

Mark 1.00 out of 1.00

Flag question

Question text

29. Averaging is analogous to

Select one:



a.

differentiation



b.

integration



c.

derivation



d.

addition

Question **132**

Complete

Mark 1.00 out of 1.00

Flag question

Question text

51. Points exceeding the threshold in output image are marked as

Select one:



a.

1



b.

0



c.

11



d.

x

Question **133**

Complete

Mark 1.00 out of 1.00

Flag question

Question text

44. For line detection we assume that lines are

Select one:



a.

thin



b.

thick



c.

blur



d.

sharp

Question **134**

Complete

Mark 1.00 out of 1.00

Flag question

Question text

22. Sobel gradient is not that good for detection of

Select one:



a.

horizontal lines



b.

edges



c.

vertical lines



d.

Diagonal lines

Question **135**

Complete

Mark 1.00 out of 1.00

Flag question

Question text

177. Statistical moments is sensitive to rotation.

Select one:



a.

False



b.

True



c.

May be



d.

Can't Say

Question **136**

Complete

Mark 1.00 out of 1.00

Flag question

Question text

132. First derivatives are positive at points on

Select one:



a.

roof



b.

ramp



c.

edges



d.

step

Question **137**

Complete

Mark 1.00 out of 1.00

Flag question

Question text

166. The length of a boundary is one of the boundary descriptors.

Select one:



a.

False



b.

Can't Say



c.

True



d.

May be

Question **138**

Complete

Mark 1.00 out of 1.00

Flag question

Question text

125. Intersection of two connected sets of an image should be

Select one:



a.

empty set



b.

connected set



c.

union



d.

complement

Question **139**

Complete

Mark 1.00 out of 1.00

Flag question

Question text

164. Structural techniques deal with the arrangement of image primitives.

Select one:



a.

True



b.

False



c.

May be



d.

Can't Say

Question **140**

Complete

Mark 1.00 out of 1.00

Flag question

Question text

156. Compactness is insensitive to orientation.

Select one:



a.

May be



b.

Can't Say



c.

False



d.

True

Question **141**

Complete

Mark 1.00 out of 1.00

Flag question

Question text

167. Which of the following of a boundary is defined as the line perpendicular to the major axis?

Select one:



a.

Median axis



b.

Equilateral axis



c.

Minor axis



d.

Equidistant axis

Question **142**

Complete

Mark 1.00 out of 1.00

Flag question

Question text

85. Second derivative approximation says that values of constant intensities must be

Select one:



a.

1



b.

negative



c.

positive



d.

0

Question **143**

Complete

Mark 1.00 out of 1.00

Flag question

Question text

72. Edge detector method is used to detect

Select one:



a.

area



b.

line



c.

point



d.

edge

Question **144**

Complete

Mark 1.00 out of 1.00

Flag question

Question text

174. What is the order of the shape number of a rectangular boundary with the dimensions of 3×3?

Select one:



a.

9



b.

3



c.

12



d.

6

Question **145**

Complete

Mark 1.00 out of 1.00

Flag question

Question text

170. If the boundary is traversed in the clockwise direction, a vertex point ‘p’ is said to be a part of the convex segment if the rate of change of slope at ‘p’ is:

Select one:



a.

Zero



b.

Non negative



c.

Cannot be determined



d.

Negative

Question **146**

Complete

Mark 1.00 out of 1.00

Flag question

Question text

66. Segmentation is a process of

Select one:



a.

edge level processes



b.

high level processes



c.

mid level processes



d.

low level processes

Question **147**

Complete

Mark 1.00 out of 1.00

Flag question

Question text

163. The texture of the region provides measure of which of the following properties?

Select one:



a.

Smoothness, coarseness and regularity



b.

Regularity alone



c.

Smoothness alone



d.

Coarseness alone

Question **148**

Complete

Mark 1.00 out of 1.00

Flag question

Question text

134. Image segment methods are of

Select one:



a.

4 types



b.

3 types



c.

2 types



d.

5 types

Question **149**

Complete

Mark 1.00 out of 1.00

Flag question

Question text

76. For line detection we use

Select one:



a.

third derivative



b.

second derivative



c.

first derivative



d.

Both a and b

Question **150**

Complete

Mark 1.00 out of 1.00

Flag question

Question text

74. During segmentation every pixel of an image should be in

Select one:



a.

region



b.

concerned area



c.

boundaries



d.

connected set

Question **151**

Complete

Mark 1.00 out of 1.00

Flag question

Question text

83. Summation square and square root are called

Select one:



a.

logical operations



b.

array operations



c.

vector operations



d.

arithmetic operation

Question **152**

Complete

Mark 1.00 out of 1.00

Flag question

Question text

53. First derivative approximation says that values of intensities at the onset must be

Select one:



a.

zero



b.

positive



c.

negative



d.

nonzero

Question **153**

Complete

Mark 1.00 out of 1.00

Flag question

Question text

79. Similarity approach of segmentation depends upon

Select one:



a.

smooth changes



b.

abrupt changes



c.

contrast



d.

low frequencies

Question **154**

Complete

Mark 1.00 out of 1.00

Flag question

Question text

158. We cannot use normalized area as one of the region descriptor.

Select one:



a.

True



b.

Can't Say



c.

May be



d.

False

Question **155**

Complete

Mark 1.00 out of 1.00

Flag question

Question text

148. Gradient of an image is obtained through

Select one:



a.

partial derivation



b.

derivation



c.

integration



d.

differentiation

Question **156**

Complete

Mark 1.00 out of 1.00

Flag question

Question text

140. Second derivatives in image segmentation produces

Select one:



a.

thin edges



b.

fine edges



c.

thick edges



d.

rough edges

Question **157**

Complete

Mark 1.00 out of 1.00

Flag question

Question text

133. For finding edge strength approach that is used is

Select one:



a.

discontinuity



b.

constant intensities



c.

gradient



d.

continuity

Question **158**

Complete

Mark 1.00 out of 1.00

Flag question

Question text

64. Thresholding gives the

Select one:



a.

color image



b.

binary image



c.

large image



d.

gray scale image

Question **159**

Complete

Mark 1.00 out of 1.00

Flag question

Question text

112. First derivatives are zero at points on

Select one:



a.

ramp



b.

constant intensity



c.

edge



d.

step

Question **160**

Complete

Mark 1.00 out of 1.00

Flag question

Question text

25. Method in which images are input and attributes are output is called

Select one:



a.

low level processes



b.

high level processes



c.

mid level processes



d.

edge level processes

Question **161**

Complete

Mark 1.00 out of 1.00

Flag question

Question text

141. Thresholding formulation measures difference between

Select one:



a.

16 neighbors



b.

4 neighbors



c.

2 neighbors



d.

8 neighbors

Question **162**

Complete

Mark 1.00 out of 1.00

Flag question

Question text

40. Blurring attenuate the

Select one:



a.

cross gradient



b.

points



c.

pixels



d.

intensity

Question **163**

Complete

Mark 1.00 out of 1.00

Flag question

Question text

171. A point ‘p’ is said to be corner point, if the change of slope is less than 10 degrees.

Select one:



a.

May be



b.

True



c.

Can't Say



d.

False

Question **164**

Complete

Mark 1.00 out of 1.00

Flag question

Question text

89. Digital images have edges that are

Select one:



a.

clear



b.

Both a and b



c.

noisy



d.

blur

Question **165**

Complete

Mark 1.00 out of 1.00

Flag question

Question text

175. Statistical moments are used to describe the shape of boundary segments quantitatively.

Select one:



a.

False



b.

Can't Say



c.

True



d.

May be

Question **166**

Complete

Mark 1.00 out of 1.00

Flag question

Question text

93. Thresholding is the example of

Select one:



a.

continuity



b.

discontinuity



c.

recognition



d.

similarity

Question **167**

Complete

Mark 1.00 out of 1.00

Flag question

Question text

127. For finding vertical lines we use mask of values

Select one:



a.

[-1 2 -1; -1 2 -1; -1 2 -1]



b.

[-1 -1 2; -1 2 -1;2 -1 -1]



c.

[-1 -1 -1; 2 2 2; -1 -1 -1]



d.

[2 -1 -1; -1 2 -1; -1 -1 2]

Question **168**

Complete

Mark 1.00 out of 1.00

Flag question

Question text

82. LOG stands for

Select one:



a.

length of gray level



b.

laplacian of Gaussian



c.

laplacian of gray level



d.

length of Gaussian

Question **169**

Complete

Mark 1.00 out of 1.00

Flag question

Question text

31. Subdivision of the image depends upon the

Select one:



a.

image



b.

problem



c.

partition



d.

objects

Question **170**

Complete

Mark 1.00 out of 1.00

Flag question

Question text

35. Point detection is done using filter that is

Select one:



a.

Gaussian



b.

butterworth



c.

ideal



d.

laplacian

Question **171**

Complete

Mark 1.00 out of 1.00

Flag question

Question text

45. Example of similarity approach in image segmentation is

Select one:



a.

boundary based segmentation



b.

region based segmentation



c.

edge based segmentation



d.

Both a and b

Question **172**

Complete

Mark 1.00 out of 1.00

Flag question

Question text

145. Segmentation is difficult for images that are

Select one:



a.

low resolution



b.

illuminated



c.

non trivial



d.

trivial

Question **173**

Complete

Mark 1.00 out of 1.00

Flag question

Question text

52. Example of discontinuity approach in image segmentation is

Select one:



a.

edge based segmentation



b.

region based segmentation



c.

boundary based segmentation



d.

Both a and b

Question **174**

Complete

Mark 1.00 out of 1.00

Flag question

Question text

99. The direction of angle to the gradient is

Select one:



a.

isomorphic



b.

orthogonal



c.

isolated



d.

isotropic

Dưới cùng của Biểu mẫu

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