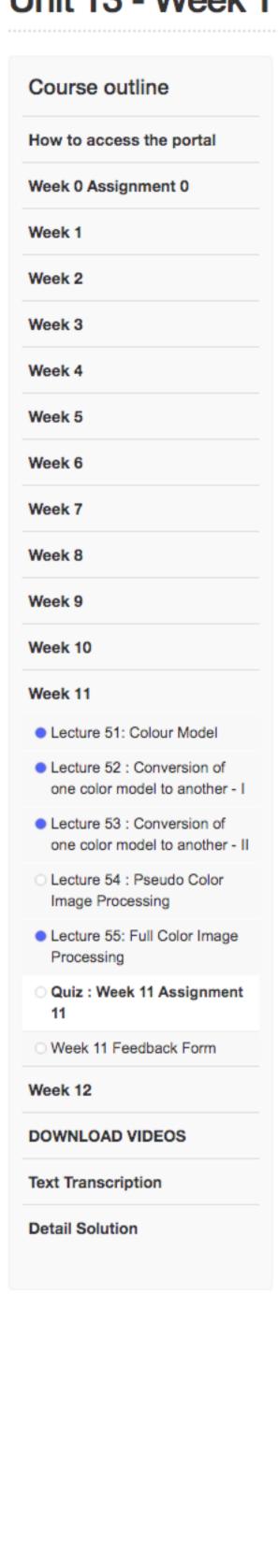
1 point

Unit 13 - Week 11

NPTEL » Digital Image Processing



Week 11 Assignment 11 The due date for submitting this assignment has passed. As per our records you have not submitted this assignment.

Where do we find the spectrum colours in the chromaticity diagram? On boundaries

Inside Outside

d. All of the above

○ a. ○ b.

Score: 0 Accepted Answers: Which of the following chromaticity coefficients are represented in the chromaticity diagram?

Red and green Magenta and Green

If Red, Green, and Blue have values 158, 120 and 98 respectively and maximum intensity in RGB is 255,

○ a. ○ b.

Blue and green

Red and blue

○ c. d.

No, the answer is incorrect. Score: 0

Ос.

○ d.

No, the answer is incorrect.

Accepted Answers:

○ a.

○ b.

O c.

○ **d**.

d.

b. C= 0.15, M = 0.19 and Y= 0.97 c. C = 0.17, M = 0.19 and Y = 0.97 d. C = 0.38, M = 0.53 and Y = 0.62

a. C = 0.92, M = 0.12 and Y = 0.21

then its corresponding values in CMY (range 0 to 1) are

Score: 0 Accepted Answers:

a)

No, the answer is incorrect.

b)

c) $\theta = \cos^{-1} \left(\frac{(R-G) + (R-B)}{2\sqrt{(R+G)^2 + (R+B)(G+B)}} \right)$ None of these. (b) (c) (d) No, the answer is incorrect. Score: 0 Accepted Answers: Match the range of parameters of the HSI model?

(i) 0 - 255

(ii) 0 - 2π

(iii) 0 - 1

Which of the following colour models is suitable from the perception point of view?

Statement-2: As the point moves towards the point of equal energy, more white light is added to the

3) Intensity a. 1 - i, 2 - ii, 3 - iii

Hue

Saturation

1)

2)

○ a.

Score: 0

○ a.

○ b. ○ c. d.

No, the answer is incorrect.

Accepted Answers:

a.

b. 1 - ii, 2 - iii, 3 - i

c. 1 - iii, 2 - ii, 3 - i

d. 1- i, 2 - iii, 3 - ii

b. HSI CMY d. CMYK

RGB

○ b. ○ c. ○ d.

No, the answer is incorrect.

Accepted Answers:

 a. Statement-1 Statement-2 Statement-3

colour and becomes less saturated

7) In Chromaticity Diagram which statement(s) is (are) true?

Statement-1: Points on the boundary are fully saturated

Statement-3: Saturation at point of equal energy is zero

○ a. ○ b. О c.

No, the answer is incorrect.

d. All of the above

Score: 0 Accepted Answers:

tone?

a)

 \bigcirc d.

Score: 0

○ c.

 \bigcirc d.

Score: 0

○ b.

a.

Accepted Answers:

No, the answer is incorrect.

Accepted Answers:

 \bigcirc d.

b)

Input Intensity Output Intensity L-1 Input Intensity d) All of the above ○ a. ○ b. ○ c.

Output Intensity

Output Intensity

d. Red, Yellow, and Cyan ○ a. ○ b.

b. Red, Green, and Blue

c. Red, Green, and Cyan

a. Magenta, Cyan, and Yellow

No, the answer is incorrect.

9) Which of the following colours are pigment colour primaries?

surroundings a. Colour equalization b. Cutting c. Colour slicing Colour enhancement ○a.

is used to highlight a specific range of colours in an image to separate objects from

○ c. \bigcirc d. No, the answer is incorrect. Score: 0 Accepted Answers:

Due on 2019-10-16, 23:59 IST.

1 point

4) Which of the following is a correct transformation for hue in the HSI model from the RGB model? $H = \begin{cases} \theta & \text{if } B \le G \\ 360^{\circ} - \theta & \text{if } B > G \end{cases}$ $\theta = \cos^{-1} \left(\frac{(R - G) + (R - B)}{2\sqrt{(R - G)^{2} + (R - B)(G - B)}} \right)$

Assuming a colour image has a light tone. What type of transformation should be used to correct the L-1 Input Intensity

1 point 1 point