YCbCr

Y、強度、高度 Chi 藍色色度

CV. 紅色、色度

YIQ

Y 克度 T \* 大爱一声。

PEJ PLOJ R. G. B

0.299 0.587 0-114

V= R+G+B

g= G P+G+B, r+g+b=1

HSIL

b = R+G+B

R = 3Ir

G = 3 I g B = 3 I b

T= 3(R+G+B)

S = 1 - 3 [min(R GB)]

H = Cos of [[(R-G)+(R-B)]]

X1 P 1/2

 $X_1P: \overline{PX_2} = M: N$ 

$$\frac{X-P}{P-x_2} = \frac{m}{n}$$

 $mp - k_2 m = h X_1 - nP$ 

 $(mtn) p = nx_1 + mx_2$ 

$$P = \frac{n\chi_1 + m\chi_2}{m+n}$$

$$|\mathcal{R}| = \frac{\chi_2 - \chi}{\chi_2 - \chi_1} |\mathcal{Q}_{11}| + \frac{\chi - \chi_1}{\chi_2 - \chi_1} |\mathcal{Q}_{21}|$$

Q1 XR1 Q2 Y1

X X

$$R^{2} = \frac{X_{2} - X}{X_{2} - X_{1}} Q_{12} + \frac{X - X_{1}}{X_{2} - X_{1}} Q_{22}$$

$$P = \frac{y_2 - y}{y_2 - y_1} R_1 + \frac{y - y_1}{y_2 - y_1} R_2$$

First - Order

V= X mod K

PIN/KJX(K-r)+PIXHJX/

Bilinear Interpolation

Valueto]= Q11(X1, Y1)

Value[] = Q12(X1, Y2) Value[2] = Q21(X2, Y1)

Value[3] = Q22 (X2, Y2)

Q11 \* ((x,+1)-sx) \* ((y|+1)-sx) Q12 \* ((x,+1)-sx) \* (sy-y1) Q21 \* (sx-x1) \* ((y|+1)-sy) Q22 \* (sx-x1) \* (sy-y1)

Histogram Stretch

Stretch 
$$(r\alpha, y) = \frac{r(x, y) - r(x, y)_{min}}{r(x, y)_{min}} \times (S_{max} - S_{min}) + S_{min}$$

Histogram Shrink

Shrink  $(r(x, y)) = \frac{S_{max} - S_{min}}{r(x, y)_{max} - r(x, y)_{min}} \times (r(x, y) - r(x, y)_{min}) + S_{min}$ 

Histogram Stide

Shide  $(r(x, y)) = V(x, y) + \Delta V$ 

Listogram Equalization

 $(r(x, y)) = V(x, y) + \Delta V$ 
 $(r(x, y)) = \Delta$ 

$$P(X) = \frac{1}{\sqrt{2\pi}} e^{-\frac{X^2}{2}}$$

$$P(Y) = \frac{1}{\sqrt{2\pi}} e^{-\frac{X^2}{2}}$$

$$P(X,Y) = \frac{1 - x^2 Y^2}{2\pi}$$

$$\int_{-\infty}^{\infty} \sqrt{\frac{-x+x}{2}} dx$$

$$\int \frac{1}{\sqrt{2}} \frac{1}{\sqrt{$$

$$P_{R}(R \leq V) = \frac{-V^{2}}{|-C|^{2}}$$

$$\frac{-k^{2}}{e^{2}} = 1-2$$

$$\frac{-k^{2}}{2} = \ln(1-2)$$