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Biswas K.K., Pattanaik S. A Simple Spatial Tone Mapping Operator for High Dynamic Range Images // Proceedings of 13th Color Imaging Conference, 2005. – pp. 291-96.

$$YD(x, y) = \frac{Y(x, y)}{[Y(x, y) + GC]}, \quad (1)$$

GC –

$$YD(x, y) = \frac{Y(x, y)}{[Y(x, y) + CL(x, y)]}, \quad (1)$$

$$YD(x, y) = \frac{Y(x, y)}{[Y(x, y) + CL(x, y)]}, \quad (2)$$

CL – (x,y),

$$CL = YL \cdot \left[\ln \left(u + \frac{YL}{Y} \right) \right] + GC, \quad (3)$$

u –

YL
5×5
YD R, G, B

$$RD = \left(\frac{R}{Y}\right)^x \cdot YD; GD = \left(\frac{G}{Y}\right)^x \cdot YD; BD = \left(\frac{B}{Y}\right)^x \cdot YD;$$

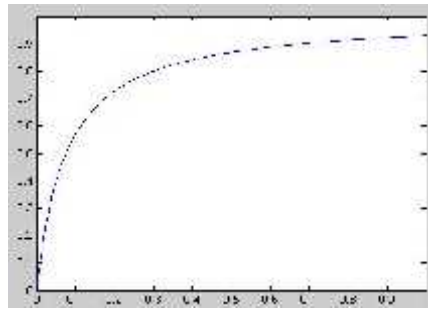
x

$$x = 0.4$$

YD.

1

Y



1 -

Y

YD

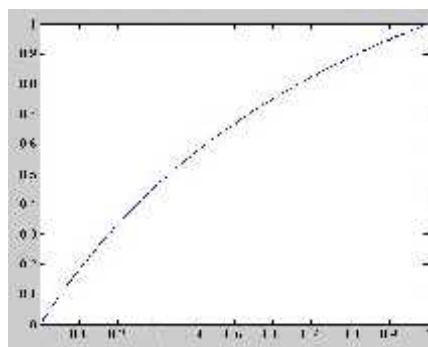
$$CL = YL \cdot \left[\ln \left(u + \frac{YL}{Y} \right) \right] + 1 ;$$

$$YD(x, y) = \frac{Y(x, y)}{[Y(x, y) + CL(x, y)]} \cdot 2 ;$$

Y

YD,

2.



2 -

Y

YD

