Python3 OpenCV3.3图像处理教程

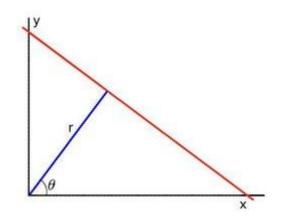
- 贾志刚

直线检测

- 霍夫直线变换介绍
- ▶ 相关API代码演示

霍夫直线变换介绍

- ▶ Hough Line Transform用来做直线检测
- 前提条件 边缘检测已经完成
- > 平面空间到极坐标空间转换

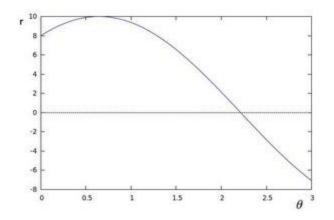


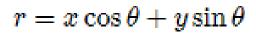
x=pcosθ,y=psinθ

 $ρ^2=x^2+y^2$, $tan\theta=y/x$ (x≠0)

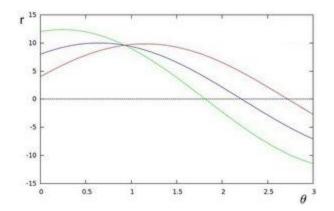
霍夫直线变换介绍

$$y = \left(-\frac{\cos\theta}{\sin\theta}\right)x + \left(\frac{r}{\sin\theta}\right)$$

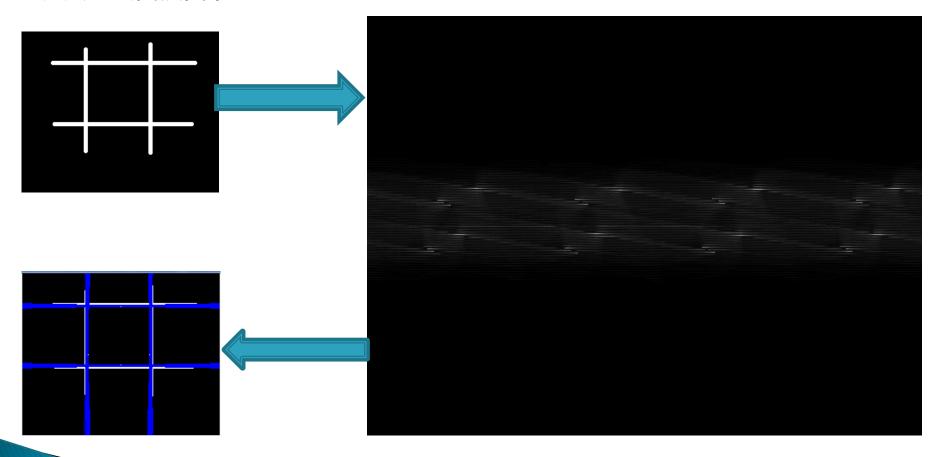




$$r_{\theta} = x_0 \cdot \cos \theta + y_0 \cdot \sin \theta$$



霍夫直线变换图示



代码层面知识点

▶ API使用与演示

