

# Detecting edges, lines, and circles

# Detecting edges, lines, and circles

```
// Extract Canny edges  
C++: Canny(  
    InputArray image, OutputArray edges, double threshold1, double threshold2  
);
```

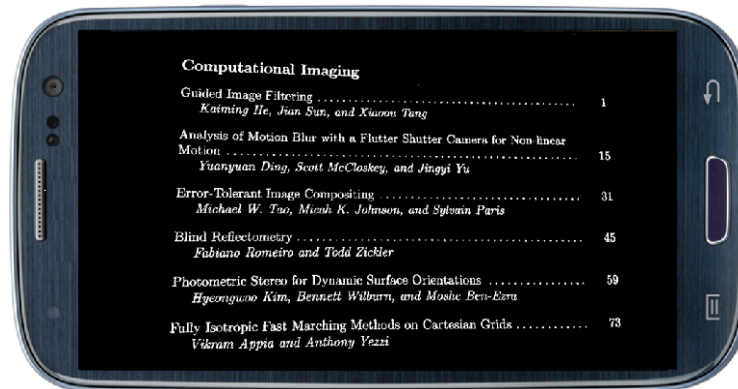
```
// Extract lines using Hough transform  
C++: HoughLines(  
    InputArray image, OutputArray lines, double rho, double theta, int thresh  
);
```

```
// Extract circles using Hough transform  
C++: HoughCircles(  
    InputArray image, OutputArray circles, int method, double accumRatio, double minDist  
);
```

# Locally adaptive binarization

# Locally adaptive binarization

```
// Perform locally adaptive binarization
C++: adaptiveThreshold(
    InputArray src, OutputArray dst, double maxValue, int adaptiveMethod,
    int thresholdType, int blockSize, double valOffset
);
```



# Human face detection

# Human face detection

```
// Call Viola-Jones face detector
vector<Rect> RectFaces;
((DetectionBasedTracker*)this)->process(*(Mat*)imageGray);
((DetectionBasedTracker*)this)->getObjects(RectFaces);
```

