110-1 影像處理-作業繳交自評表

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| 系級： 學號： 姓名： | | 完成否 | |
| 項目 | 說明 | 是 | 否 |
| Splash screen | 開啟程式時短暫出現的畫面 |  |  |
| 介面操作 | 滑鼠擷取圖片座標XY值&對應RGB、HSI資訊、greyout |  |  |
| Load File(開檔) | 讀取檔頭資訊、調色便、顯示PCX圖像、顯示BMP圖像 |  |  |
| Color Channel (色彩通道)  ) | R、G、B |  |  |
| Gray Level (灰階) | Gray Level、Bit Depth |  |  |
| Cut (剪裁) | 剪裁要有虛線框框、長方形、橢圓形 |  |  |
| Scaling (縮放) | 縮小：Decimation(刪去)、Average(平均) |  |  |
| 放大：Duplication(複製)、interpolation(內插) |  |  |
| Rotate (旋轉) | Source→Destination(正推法) |  |  |
| Destination→Source (逆推法) |  |  |
| Brightness (明亮度) | 圖片亮暗 |  |  |
| Transparency (透明度) | Overlapping(圖像交疊) |  |  |
| Signal-to-noise ratio (SNR) | 影像之信號雜訊比 |  |  |
| Histogram (直方圖) | Gray Level Histogram(灰階直方圖) |  |  |
| GRB Histogram(三色直方圖) |  |  |
| Negative (負片) | RGB顏色值反向、灰階值反向 |  |  |
| Thresholding (閥值) | 設定二值化閥值(Otsu、手動調整) |  |  |
| Slicing (分割) | Bit-plane Slicing(位元平分割)、Gray code |  |  |
| Watermark(浮水印) |  |  |
| Contrast Stretching (對比擴張) | 動態調整設定點、預設值(Transfer function) |  |  |
| Filter (濾波器) | Outlier |  |  |
| Median(Square/Cross)、Pseudo Median |  |  |
| Lowpass/Highpass |  |  |
| Edge Crispening |  |  |
| High-boost Filter |  |  |
| Gradient(Roberts/Sobel/Prewitt) |  |  |
| Magic Wand | 同圖複製貼上 |  |  |
| 彈跳球 | 多球、移動、彈射球體 |  |  |
| Histogram Equalization | 直方圖均衡化、CDF |  |  |
| Histogram Specification | 直方圖映射、CDF |  |  |
| Connected Component | 分辨區塊、著色 |  |  |
| Huffman | 亮度分布機率、編碼 |  |  |
| Mpeg Video | PSNR、motion vector編碼、解碼、播放影片 |  |  |