iStudio 1.0

Basic IP Tool

Eniac 2008 Project
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Basic IP Tools

- Grayscale

- Sepia Tone

- Image Binarization(Threshold)

- Background Changer

- 2 Source Filters: Merge and Difference

- Invert Image

- Tinge:RGB

- Resize, Rotate, Flip,

Utility

- Entertainment/Animation Industry for basic Image Processing.

- Grayscale/Sepia conversion.

- 2 Images Difference/Merge.

- Background Filter/Changer: WallpaperX

- Resizing, Rotating, Flipping Images.

Features

- Built in C# on .NET framework 3.5

- Uses user defined functions rather than Image Processing library tools of C#.

- Uses self-made 2 Source Difference algorithm.

- User friendly GUI and easy to use.

- Background Changer: WallpaperX

Algorithms Used

- Grayscale: (R+G+B)/3 for all RBG Values.

- Sepia Tone: Uses RBG multipliers defined by Microsoft.

- Invert Image: 255-RBG values.

- 2 Source Difference Filter: Checks any change in RBG values of image and gives the change as output.

- 2 Source Merge Filter: Mean of RBG values of two images.

WallpaperX Algorithm

- Identifies white colour and copies RBG values of the wallpaper image to original image.

- Can be used to change background image.

- Actively used in animation industry for crreating visual effects.

ScreenShots

Image 1

Image 2

Final Ouput

Credits

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