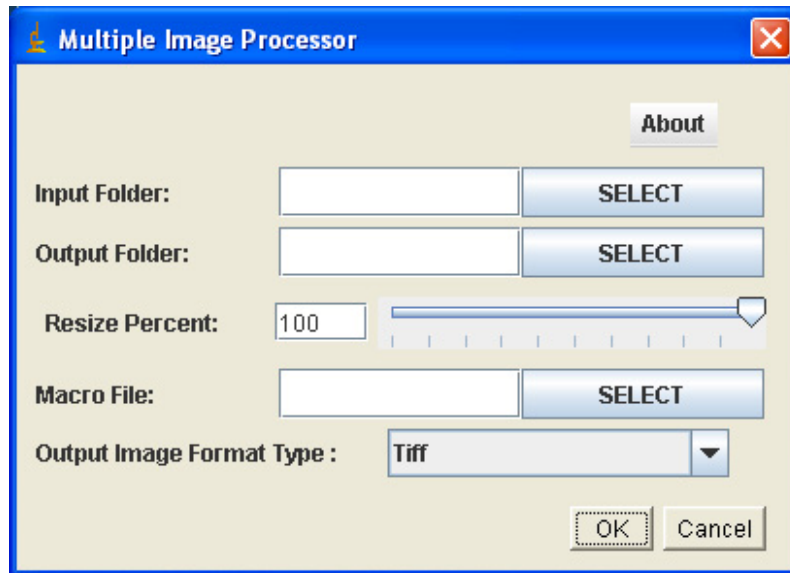


Multiple Image Processor For ImageJ



During the development of the Visible Human Preprocessing Toolkit we notice the interest of others researchers to work on large number of images and make multiple changes to each of them and then save them to the desire format, so we created the Multiple Image Processor for ImageJ.

The Multiple Image Processor allows the researchers to work on large images with the following types: BMP, JPEG, GIF, TIFF, PGM . With this plug-in, the user can also apply macros generated with ImageJ macro functions to the set of original images. After doing the pre-processing, this application allows you to save images in any of a variety of formats and sizes.

Install:

1. Download Imagej from <http://rsb.info.nih.gov/ij/>
2. Download theMultipleImageProcessor.java from ***** and place it in the ImageJ→Plugins→Filters folder.
3. Start ImageJ
4. In ImageJ, go to Plugins→Compile and Run.. → MultipleImageProcessor.java and press Open. Start working with the application.

User's Guide and Features:

About:

CIAR... : This is a link to our website. Learn more about the Center for Information Architecture in Research at the University of Puerto Rico Medical Sciences Campus

The Multiple Image Processor: Author, Version and Mission

Input Folder:

To select the input folder where the desired set is found, press the SELECT button. Then the user can navigate the file system and to choose the desired folder. Make sure that the files you choose are the correct ones.

Output Folder:

To choose the folder where the processed images will be stored, press the SELECT button and navigate the file system to choose the desired folder. Please take into account the size of the images to be created. Images could be very large depending on the original size of the images, the resize factor and the desired image output format. Make sure you have adequate disk space.

Resize Percent:

In order to perform computing-intensive operations such as 3D rendering without large memory requirements, a resize feature is included. As the name implies, the user can choose the size of the output image as a percent of the input image. The resize factor can be adjusted using the slide bar. We suggest that you experiment with your particular system and size of data to find out what is better for you. Remember that the smallest the image the lower the detail.

Macro File:

A nice feature of the ImageJ program is the Macro plugin. This feature allows users without any programming skills to design macros that they will use on particular images. In order to use this feature to process the raw images, first use ImageJ to open working image (File→Open). Once this is done, go to Plugins→Macros→Record. This will open a window that

will create the macro for you by recording your actions on a particular image. For example, run the Sharpen process (Process→Sharpen) and then the Enhance Contrast process (Process→Enhance). In the recorder you should have the following:

```
run("Sharpen");  
run("Enhance Contrast", "saturated=0.5");
```

Press the Create button on the Macro Recorder window and save the file with any name you wish (File→Save).
Then Close the Image.

NOTE: Remove any Close or Open statements that you may have in the macro file, because this will interfere with the normal operation of the plugin.

After you have created the macro, you may apply it to the image set of your choice. Just choose the image set input and output folders; and resize percent and save image type. Then press the SELECT button for the Macro File feature, and navigate your file system to choose the macro file.

In ImageJ, it is possible to run a macro on a stack of images. However, all images have to be loaded as a stack into memory, creating potential problems with available memory size. To overcome this problem, the Multiple Image Processor function will process a series of images in the dataset of your choice one image at a time.

Output Image Format Type:

You may elect to save the image processed images in a number of different formats: TIFF, 8-bit TIFF, JPEG, BMP.

Contact information:

If you have any comments or questions, please contact

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ImageJ: Image Processing and Analysis in JAVA.

ImageJ is developed by Wayne Rasband at the Research Services Branch, NIH.
<http://rsb.info.nih.gov/ij/>

Batch Converter

Developed by Wayne Rasband, NIH
Converts a folder of images in any format supported by ImageJ's Open command (Tiff, Jpeg, Gif, bmp, DICOM, FITS) into Tiff, 8-bit Tiff, Jpeg, Zip or Raw.
<http://rsb.info.nih.gov/ij/plugins/batch-converter.html>

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<http://rcmi.rcm.upr.edu/research/inform.html>