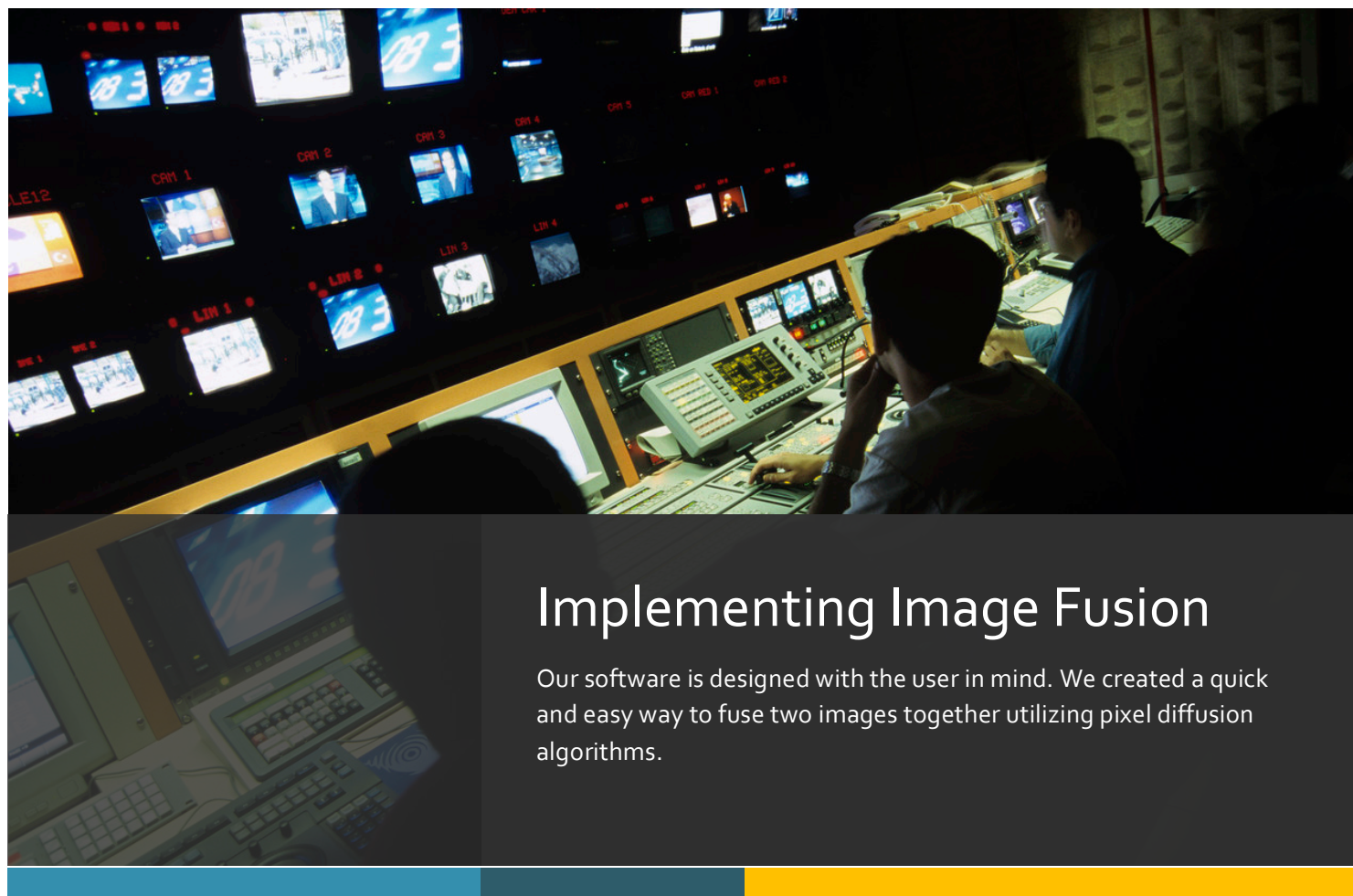


Image Fusion for Situational Awareness

Timothy Baker, Yusef Cardona,
Jeremy Choyce, Eve Ciania,
John Madigan III, Kevin Shea

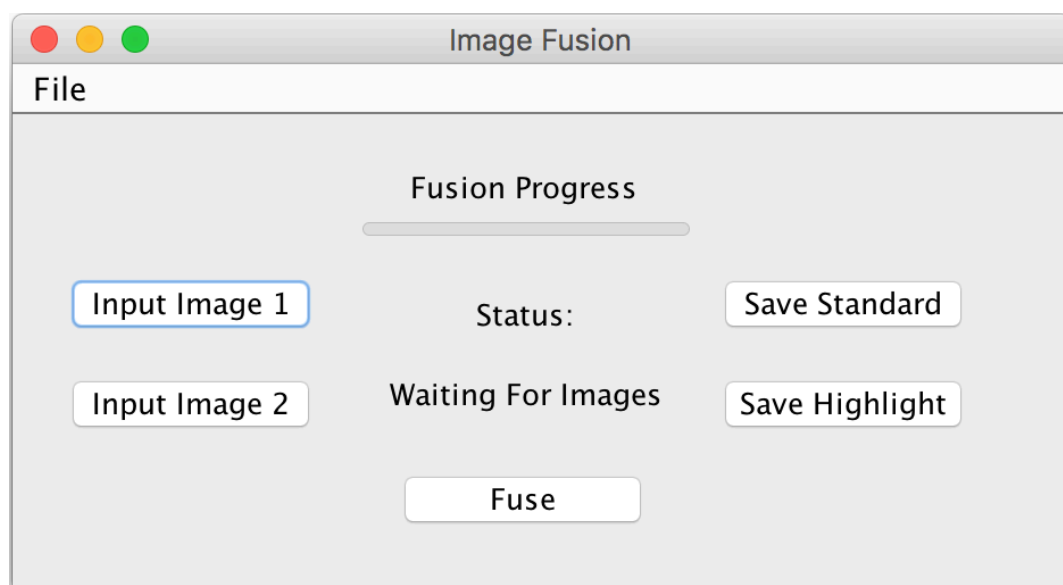




Implementing Image Fusion

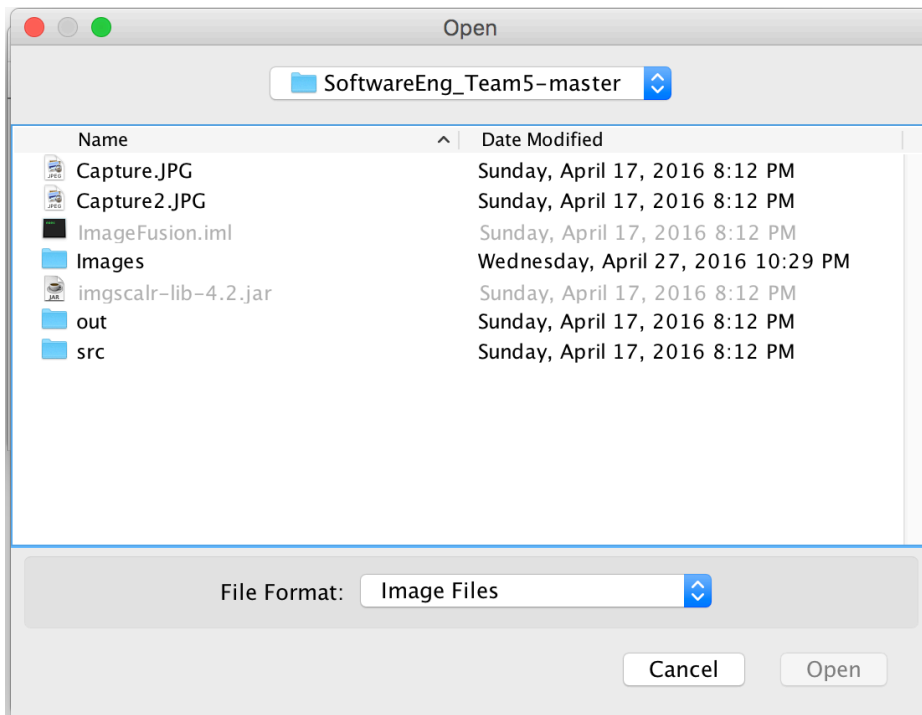
Our software is designed with the user in mind. We created a quick and easy way to fuse two images together utilizing pixel diffusion algorithms.

The user starts by navigating to the Image Fusion Jar File. This file contains our program and any required libraries. As long as the user has Java installed they can run the software. Once opened this will bring them to the main screen.



Next the user can click on Input Image 1 to bring up a system navigator to choose their first file. They then repeat this process for the second image.

Don't worry if you click on Input Image 2 first and then Input Image 1, order doesn't matter!



The user can use an image stored anywhere on their computer, it does not have to be in the same path as the jar file. While searching through their system the user may notice that they can't choose word documents, spreadsheets, etc. The user can only choose files that are of image type.

The user is then notified in the status area that the first image has been accepted and they can now repeat the process for their second image.

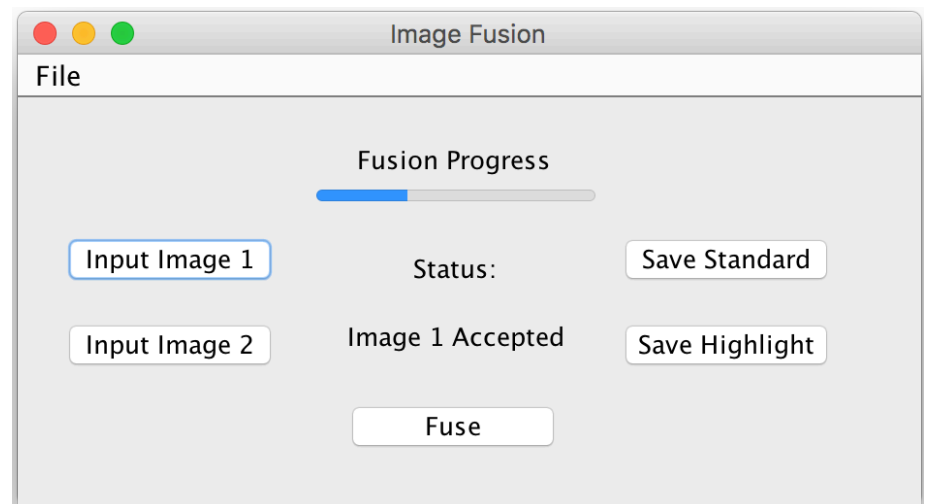
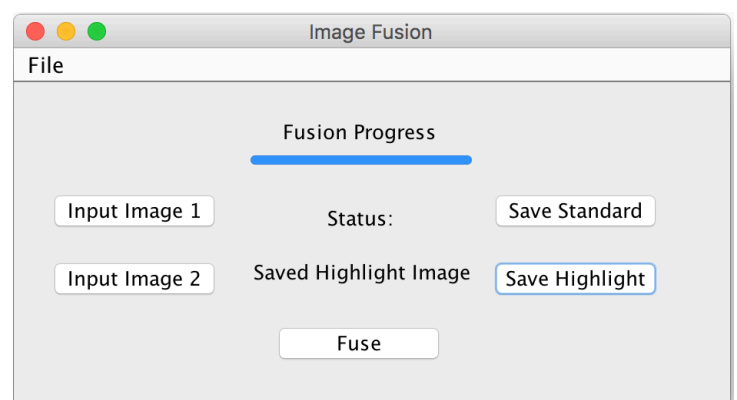
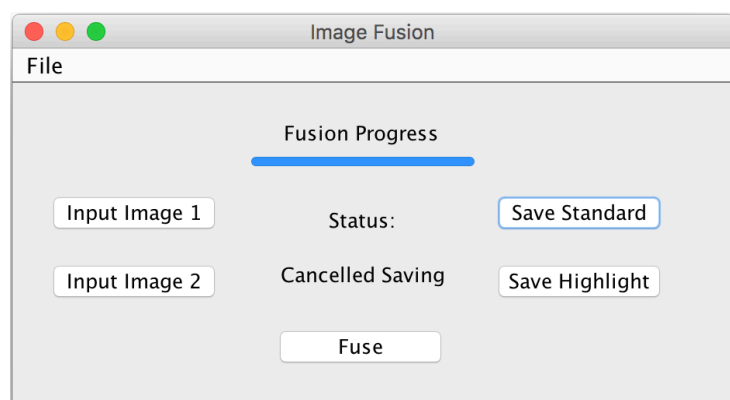
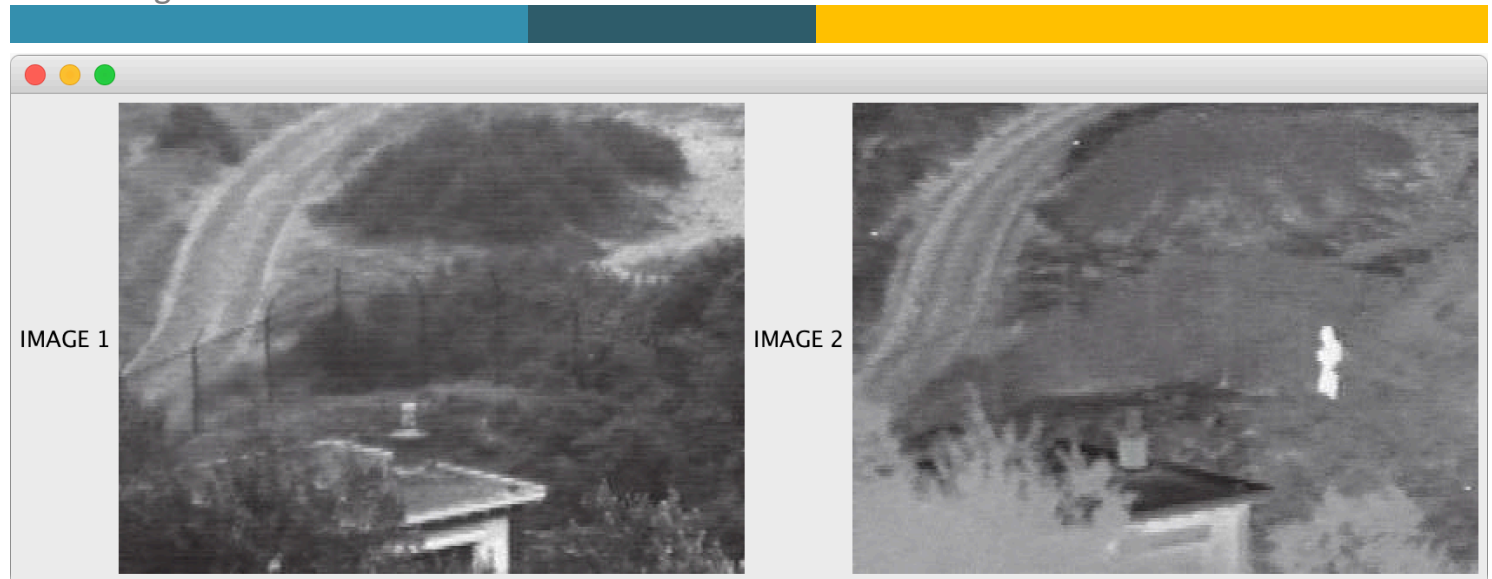


Image Fusion

4

Once the two images are accepted the user simply clicks on fuse and the algorithms will produce four pictures in two outputs. The first image is simply the 2 user provided images. The second image contains the image fusion and an image fusion with highlighting. The red highlighting represents the difference between the two inputs.

You can now save either image using either the Save Standard or Save Highlight buttons. You will get a Saved message or Cancelled message in the status area depending on if you saved the image or not.





Rowan University

Software Engineering Group 5

Timothy Baker, Yusef Cardona, Jeremy Choyce,
Eve Ciancia, John Madigan III, Kevin Shea