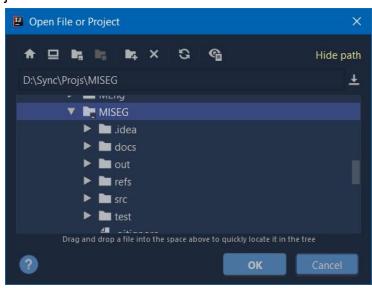
Instructions for testing and using the library

There are two ways to test and use MISEG:

1. Directly Access the Source Code

This way is straight forward and recommended to test the library for the first time. You can test it by following the steps:

- 1. Install an IDE for Java on your local machine (preferably IntelliJ IDEA or Eclipse).
- 2. Install JDK (preferably JDK 11) to your computer.
- 3. Clone the whole repo https://github.com/Ao99/MISEG to your computer.
- 4. Open the project from the root folder MISEG



5. Using IDE to run the sample Main.java at MISEG\src\Java\ca\aodong



6. The following message including 2 errors should be shown:

```
Error: the format of frame 6 is not supported.
Error: cannot find the file test/input/frame7.bmp
Warning: frame 6 is not loaded.
Warning: frame 7 is not loaded.
5 image frames have been loaded.
```

Because MISEG\test\input\frame6.bmp is a damaged file, and MISEG\test\input\frame7.bmp does not exist, getting the above messages means the library is running well













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7. The following message should also be shown:

Please input a number 1, 2 or 3 according to the instructions.

8. If the input is not a number (such as "A") or a number out of the bound (such as "100"), the following error message will be shown, and a new input will be asked:

9. If a correct input (such as "3") is given, the calculated optimal thresholds will be displayed as follows:

10. More error messages for frame6 and frame7 should be shown as follows:

```
Warning: thresholds for frame 6 are not calculated.
Warning: frame 6 is not segmented nor saved.
Warning: thresholds for frame 7 are not calculated.
Warning: frame 7 is not segmented nor saved.
5 segmented frames have been saved.
```

11. The output segmentation images should have been saved in the folder MISEG\test\output\

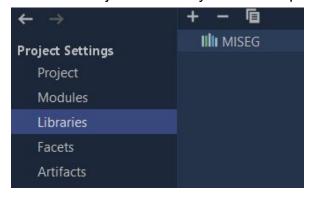


12. Modify and expand the source codes according to your own needs.

2. Use the MISEG.jar File

This is the usual way of using a published Java library. You can use and test it by following the steps:

- 1. Install an IDE for Java on your local machine (preferably IntelliJ IDEA or Eclipse).
- 2. Install JDK (preferably JDK 11) to your computer.
- 3. Clone the whole repo https://github.com/Ao99/MISEG to your computer.
- 4. Create a new Java project (preferably not in the same directory as the cloned repo).
- 5. Add MISEG\src\publish\MISEG.jar as a library of the new project.



- 6. Copy the input images into the new project directory. For example, copy everything from MISEG\test\input to NewProject\test\input.
- 7. Create the output folder. For example, NewProject\test\output.
- 8. Create a new Main.java file in the new project to use the library, or copy the prepared sample from MISEG\src\publish\Main.java to the new project.

9. Make sure that in Main.java, input and output directory have been set correctly

```
public static void main(String[] args) {
   String filenameIn = "test/input/";
   String filenameOut = "test/output/";
```

10. Run Main.java, and follow the instructions 6 to 12 from Directly Access the Source Code.