

MIC-MAC 2 Userguide

Install

The software requires the following MATLAB libraries:

- Image Processing Toolbox
- Statistics and Machine Learning Toolbox

The software requires the following external libraries to run:

- BM3D ([download here](#))
- UMAP ([download here](#))
- DISPSTAT ([download here](#))
- BIOFORMAT ([download here](#))
- SKELETON3D ([download here](#))
- OCTAVE NETWORK TOOLBOX ([download here](#))
- VIOLIN PLOT FOR MATLAB ([download here](#))

Please place all these contents inside the Library folder path.

Run

The software is split into four modules:

Image Segmentation

Open the *segmentImage.m* script in Matlab, edit the parameters in the first code section (see description inside the code) and run the code. A window will appear, browse and select the image you want to process.

Feature Extraction

Open the *featureExtract.m* script in Matlab, edit the parameters in the first code section (see description inside the code) and run the code.

Analysis

Open the *analysis.m* script in Matlab and run the sections you desire. Some sections require workspace data from previous sections.

Graph Plot

Open the script *Micmac.R* and run the code.