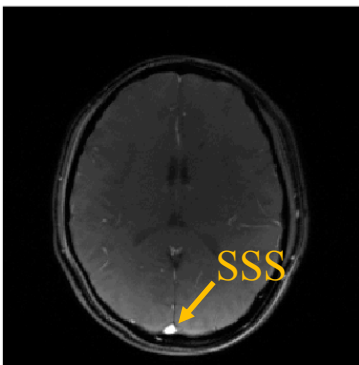# Biomedical Image Investigation: Fall 2024

Homework 8

Due: **11/25 PM 2:10**

In the compressed file, you can find two *.mat files, namely Itof and Irad. They are brain images acquired by different MR techniques, yielding high intensities in the superior sagittal sinus (SSS). Do you think mutual information can be beneficial for the identification of matching regions (i.e., SSS)? If yes, display the detected points or features with them overlaid on both images. If not, explain the possible reasons for failure in feature matching.

Hint: You may want to move your patch along the "vertical" direction as well as the "horizontal" direction line by line to obtain a "MI" map. Nevertheless, it may not be necessary if performing it along one direction can give you the best match.